

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

**TSGRP#9(00)0386**

**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
R3-002272	25.433	165	4	Changes to NBAP to support the signaling of the 'DSCH DL	F	agreed	3.2.0	3.3.0
R3-002031	25.433	168	2	Clarification for Multi-DPCH cases	F	agreed	3.2.0	3.3.0
R3-002211	25.433	169	3	Alignment of DPCH parameters with WG1/WG2 in	F	agreed	3.2.0	3.3.0
R3-001913	25.433	170	1	Node B communication context ID IE in Radio Link	F	agreed	3.2.0	3.3.0
R3-001921	25.433	173	1	Correction of Tabular Formats and Information Element	F	agreed	3.2.0	3.3.0
R3-001912	25.433	174	1	Corrections to RL Setup Failure description	F	agreed	3.2.0	3.3.0
R3-002313	25.433	175	3	Rules for NBAP on how IEs become known and	F	agreed	3.2.0	3.3.0
R3-001905	25.433	176	1	Maximum/minimum DL power settings	F	agreed	3.2.0	3.3.0
R3-002289	25.433	177	3	Minimum power level	F	agreed	3.2.0	3.3.0
R3-001890	25.433	178	1	Power reference point	F	agreed	3.2.0	3.3.0
R3-002125	25.433	180	2	Introduction of DL Codes Not Supported cause value	F	agreed	3.2.0	3.3.0
R3-001914	25.433	181	1	Power offset for PICH and AICH in Common Transport	F	agreed	3.2.0	3.3.0

R3-001911	25.433	182	1	Ambiguous Resource Status Indication and consequences	F	agreed	3.2.0	3.3.0
R3-001934	25.433	183	1	Handling of two non supported non core	F	agreed	3.2.0	3.3.0
R3-001882	25.433	184	1	Removal of paging procedure from NBAP	F	agreed	3.2.0	3.3.0
R3-001978	25.433	185	2	Alignment to RRC CRs 363 and 362	F	agreed	3.2.0	3.3.0
R3-001923	25.433	186	1	Introduction of a temporary failure: not expired CFN	F	agreed	3.2.0	3.3.0
R3-002305	25.433	187	3	NBAP Reset procedure	F	agreed	3.2.0	3.3.0
R3-001894	25.433	188	1	Maximum number of TBs in a TTI	F	agreed	3.2.0	3.3.0
R3-001874	25.433	189	1	Handling of IEs marked with "Ignore and Notify" in class 2	F	agreed	3.2.0	3.3.0

**3GPP TSG-RAN Meeting #9**

**Document R3-002272**

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

**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 165r4**

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: **R-WG3**

*list expected approval meeting # here*



for approval for information **X**

strategic non-strategic **X** *(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:** Motorola **Date:** August 2000

**Subject:** Enhancement to NBAP to support FDD mode DSCH TFCI2 signalling across the Iub

**Work item:**

<b>Category:</b>	F Correction	<input checked="" type="checkbox"/>	<b>Release:</b> Phase 2	<input type="checkbox"/>
<i>(only one category shall be marked with an X)</i>	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:** Provides mechanisms for new transport bearers to be set up to carry the FDD mode DSCH DL signalling control frame across the Iub.  
Removed Shared channel information from Unsynchronized RL Reconfiguration

**Clauses affected:** 8.2.17.2, 8.3.2.2, 8.3.5.2, 9.1.36.1, 9.1.37.1, 9.1.42.1, 9.1.43, 9.1.47, 9.1.48

<b>Other specs affected:</b>	Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	25.435 CR22
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

**Other comments:**



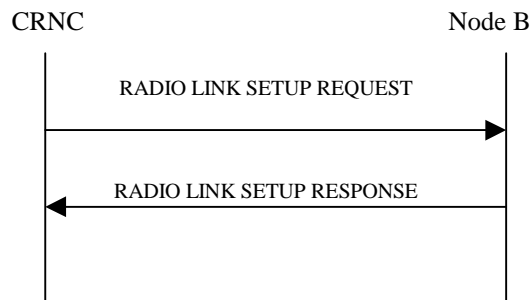
<----- double-click here for help and instructions on how to create a CR.

## 8.2.17 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.

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 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 *TFCI2 Bearer Information IE* then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of *ToAWS* and *ToAWE* specified in the IE's. The *Binding ID IE* and *Transport Layer Address IE* for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the *TFCI Signaling Mode IE* within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI field but the *TFCI2 Bearer Information IE* is not included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm.]

[FDD - If the *TFCI Signaling Mode IE* within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information IE* is included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer (see ref.[24]).]

[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

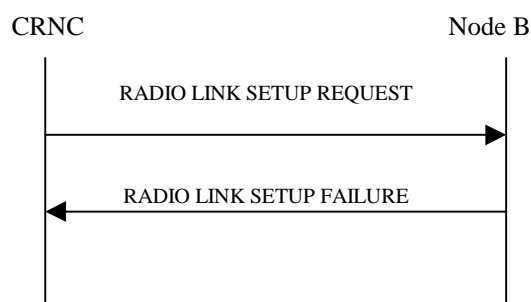


Figure 2: Radio Link Setup procedure: Unsuccessful Operation

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” 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

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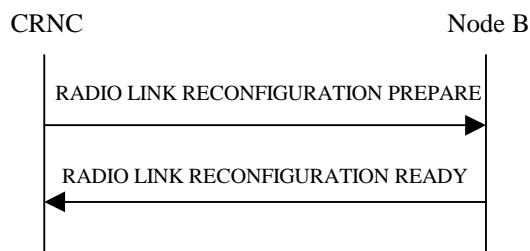
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 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.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCI2 Bearer Information IE* then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist. The *Binding ID IE* and *Transport Layer Address IE* of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted then the Node B shall release the resources associated with that bearer in the new configuration.]

[FDD - If the *TFCI Signaling Mode IE* within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI field but a TFCI2 transport bearer has not already been set up and *TFCI2 Bearer Information IE* is not included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm in the new configuration.]

[FDD - If the *TFCI Signaling Mode IE* within the RADIO LINK RECONFUGURATION PREPARE message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information IE* is included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer in the new configuration (see ref.[24]).]

[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.

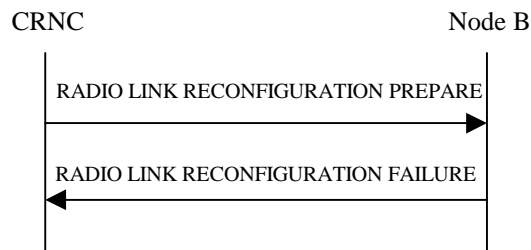
#### Compressed Mode Preparation:

[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.

## 8.3.5 Unsynchronised Radio Link Reconfiguration

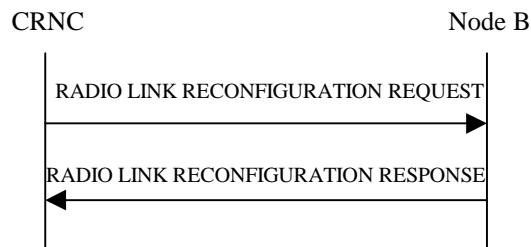
### 8.3.5.1 General

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.

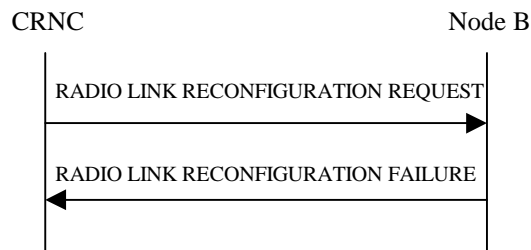
#### Compressed Mode Preparation:

[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 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" 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 Unsyncronised 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><u>TFCI2 bearer information</u></b>		<b>0..1</b>			:	
>ToAWS	<u>M</u>		<u>9.2.1.61</u>		:	
>ToAWE	<u>M</u>		<u>9.2.1.60</u>		:	
<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.

## 9.1.37 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		–	
>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		–	
<b><u>TFCI2 bearer information Response</u></b>		<u>0..1</u>				
>Binding ID	<u>M</u>		<u>9.2.1.4</u>		<u>–</u>	
>Transport Layer Address	<u>M</u>		<u>9.2.1.63</u>		<u>–</u>	
Criticality diagnostics	O		9.2.1.17		YES	ignore

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

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

## 9.1.38 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						
>>>TFCI2 bearer information Response		0..1				
>>>>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

## 9.1.42 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>		1..<max noofDC Hs>			–	
>>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..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to modify</b>		0..<max noofDS CHs>			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>		0..<max noofDS CHs>			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>		0..<max noofDS CHs>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b><u>TFCI2 bearer specific information</u></b>		<u>0..1</u>				
<b><u>&gt;CHOICE TFCI2 bearer action</u></b>						
<b><u>&gt;&gt; “Add or modify”</u></b>						
<b><u>&gt;&gt;&gt; ToAWS</u></b>	<u>M</u>		<u>9.2.1.61</u>		<u>=</u>	
<b><u>&gt;&gt;&gt; ToAWE</u></b>	<u>M</u>		<u>9.2.1.60</u>		<u>=</u>	
<b><u>&gt;&gt; “Delete”</u></b>		<u>NULL</u>				
<b>RL Information</b>		0..<max noofRLs >			EACH	reject
>RL ID	M		9.2.1.53		–	
<b>&gt;DL Code Information</b>		0..<max noofDL Codes<			–	
>>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	O				YES	reject

Sequence Information						
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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.

## 9.1.43 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		–	
<b>&gt;TFCI2 bearer Information Response</b>		<i>0..1</i>				
>> Binding ID	<u>M</u>		<u>9.2.1.4</u>		<u>–</u>	
>> Transport Layer Address	<u>M</u>		<u>9.2.1.63</u>		<u>–</u>	
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	⊖		9.2.2.25			
>PDSCH RL ID	⊖		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 >			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		9.2.1.64		-	
>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		9.2.1.64		-	
>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.
<del><i>MaxnoofDSCHs</i></del>	<del>Maximum number of DSCHs for a UE.</del>
<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	0		9.2.3.2	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	0		9.2.1.59		-	
>Frame handling Priority	0		9.2.1.30		-	
>ToAWS	0		9.2.1.64		-	
>ToAWE	0		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	0		9.2.1.30		-	
>ToAWS	M		9.2.1.64		-	
>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	0		9.2.3.2	UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	0		9.2.1.59		-	
<b>USCH Information to add</b>		0.. <Maxnoo f USCHs>			GLOBAL	reject



		<MaxnoofUSCHs>				
>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...<MaxnoofUSCHs>			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.
<del><i>MaxnoofDSCHs</i></del>	<del>Maximum number of DSCHs for one UE</del>
<del><i>MaxnoofUSCHs</i></del>	<del>Maximum number of USCHs for one UE</del>
<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		<i>9.2.1.27</i>		–	
>>Binding ID	M		<i>9.2.1.4</i>		–	
>>Transport Layer Address	M		<i>9.2.1.63</i>		–	
<b>&gt;USCH Information Response</b>		<i>0..&lt;MaxnoofUSCHs&gt;</i>			GLOBAL	ignore
>>USCH ID	M		<i>9.2.3.27</i>		–	
>>Binding ID	M		<i>9.2.1.4</i>		–	
>>Transport Layer Address	M		<i>9.2.1.63</i>		–	
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

## 9.3 Message and Information element abstract syntax (with ASN.1)

### 9.3.0 General

Section 9.3 presents the Abstract Syntax of NBAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this section and the tabular format in sections 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of NBAP messages. NBAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a NBAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a NBAP message that is not constructed as defined above is received, this shall be considered as Abstract Syntax Error, and the message shall be handled as defined for Abstract Syntax Error in section 10.

### 9.3.1 Usage of Private Message mechanism for non-standard use

The private message mechanism for non-standard use may be used

- For special operator- (and/or vendor) specific features considered not to be part of the basic functionality, i.e. the functionality required for a complete and high-quality specification in order to guarantee multi-vendor inter-operability.
- By vendors for research purposes, e.g. to implement and evaluate new algorithms/features before such features are proposed for standardisation

The private message mechanism shall not be used for basic functionality. Such functionality shall be standardised.

### 9.3.2 PDU Description for NBAP

```
-- *****
--
-- Elementary Procedure definitions
--
```

```
-- *****
NBAP-PDU-Discriptions -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
    Criticality,
    ProcedureID,
    MessageDiscriminator,
    TransactionID
FROM NBAP-CommonDataTypes

    CommonTransportChannelSetupRequestFDD,
    CommonTransportChannelSetupRequestTDD,
    CommonTransportChannelSetupResponse,
    CommonTransportChannelSetupFailure,
    CommonTransportChannelReconfigurationRequestFDD,
    CommonTransportChannelReconfigurationRequestTDD,
    CommonTransportChannelReconfigurationResponse,
    CommonTransportChannelReconfigurationFailure,
    CommonTransportChannelDeletionRequest,
    CommonTransportChannelDeletionResponse,
    BlockResourceRequest,
    BlockResourceResponse,
    BlockResourceFailure,
    UnblockResourceIndication,
    AuditRequiredIndication,
    AuditRequest,
    AuditResponse,
    CommonMeasurementInitiationRequest,
    CommonMeasurementInitiationResponse,
    CommonMeasurementInitiationFailure,
    CommonMeasurementReport,
    CommonMeasurementTerminationRequest,
    CommonMeasurementFailureIndication,
    CellSetupRequestFDD,
    CellSetupRequestTDD,
    CellSetupResponse,
    CellSetupFailure,
    CellReconfigurationRequestFDD,
    CellReconfigurationRequestTDD,
    CellReconfigurationResponse,
```

CellReconfigurationFailure,  
CellDeletionRequest,  
CellDeletionResponse,  
ResourceStatusIndication,  
SystemInformationUpdateRequest,  
SystemInformationUpdateResponse,  
SystemInformationUpdateFailure,  
RadioLinkSetupRequestFDD,  
RadioLinkSetupRequestTDD,  
RadioLinkSetupResponseFDD,  
RadioLinkSetupResponseTDD,  
RadioLinkSetupFailureFDD,  
RadioLinkSetupFailureTDD,  
RadioLinkAdditionRequestFDD,  
RadioLinkAdditionRequestTDD,  
RadioLinkAdditionResponseFDD,  
RadioLinkAdditionResponseTDD,  
RadioLinkAdditionFailureFDD,  
RadioLinkAdditionFailureTDD,  
RadioLinkReconfigurationPrepareFDD,  
RadioLinkReconfigurationPrepareTDD,  
RadioLinkReconfigurationReady,  
RadioLinkReconfigurationFailure,  
RadioLinkReconfigurationCommit,  
RadioLinkReconfigurationCancel,  
RadioLinkReconfigurationRequestFDD,  
RadioLinkReconfigurationRequestTDD,  
RadioLinkReconfigurationResponse,  
RadioLinkDeletionRequest,  
RadioLinkDeletionResponse,  
DL-PowerControlRequest,  
DedicatedMeasurementInitiationRequest,  
DedicatedMeasurementInitiationResponse,  
DedicatedMeasurementInitiationFailure,  
DedicatedMeasurementReport,  
DedicatedMeasurementTerminationRequest,  
DedicatedMeasurementFailureIndication,  
RadioLinkFailureIndication,  
RadioLinkRestoreIndication,  
CompressedModeCommand,  
ErrorIndication,  
PrivateMessage,  
PhysicalSharedChannelReconfigurationRequestTDD,  
PhysicalSharedChannelReconfigurationResponseTDD,  
PhysicalSharedChannelReconfigurationFailureTDD

FROM NBAP-PDU-Contents

id-audit,  
id-auditRequired,  
id-blockResource,

```

id-cellDeletion,
id-cellReconfiguration,
id-cellSetup,
id-commonMeasurementFailure,
id-commonMeasurementInitiation,
id-commonMeasurementReport,
id-commonMeasurementTermination,
id-commonTransportChannelDelete,
id-commonTransportChannelReconfigure,
id-commonTransportChannelSetup,
id-compressedModeCommand,
id-dedicatedMeasurementFailure,
id-dedicatedMeasurementInitiation,
id-dedicatedMeasurementReport,
id-dedicatedMeasurementTermination,
id-downlinkPowerControl,
id-errorIndicationForDedicated,
id-errorIndicationForCommon,
id-physicalSharedChannelReconfiguration,
id-privateMessageForDedicated,
id-privateMessageForCommon,
id-radioLinkAddition,
id-radioLinkDeletion,
id-radioLinkFailure,
id-radioLinkRestoration,
id-radioLinkSetup,
id-resourceStatusIndication,
id-synchronisedRadioLinkReconfigurationCancellation,
id-synchronisedRadioLinkReconfigurationCommit,
id-synchronisedRadioLinkReconfigurationPreparation,
id-systemInformationUpdate,
id-unblockResource,
id-unSynchronisedRadioLinkReconfiguration
FROM NBAP-Constants;

-- *****
--
-- Interface Elementary Procedure Class
--
-- *****

NBAP-ELEMENTARY-PROCEDURE ::= CLASS {
    &InitiatingMessage          ,
    &SuccessfulOutcome          OPTIONAL,
    &UnsuccessfulOutcome       OPTIONAL,
    &Outcome                    OPTIONAL,
    &messageDiscriminator      MessageDiscriminator,
    &procedureID                ProcedureID    UNIQUE,
    &criticality                Criticality    DEFAULT ignore
}

```

```

WITH SYNTAX {
    INITIATING MESSAGE           &InitiatingMessage
    [SUCCESSFUL OUTCOME         &SuccessfulOutcome]
    [UNSUCCESSFUL OUTCOME       &UnsuccessfulOutcome]
    [OUTCOME                     &Outcome]
    MESSAGE DISCRIMINATOR       &messageDiscriminator
    PROCEDURE ID                 &procedureID
    [CRITICALITY                 &criticality]
}

-- *****
--
-- Interface PDU Definition
--
-- *****

NBAP-PDU ::= CHOICE {
    initiatingMessage           InitiatingMessage,
    succesfulOutcome            SuccessfulOutcome,
    unsuccessfulOutcome         UnsuccessfulOutcome,
    outcome                     Outcome,
    ...
}

InitiatingMessage ::= SEQUENCE {
    procedureID                 NBAP-ELEMENTARY-PROCEDURE.&procedureID   ( {NBAP-ELEMENTARY-PROCEDURES} ),
    criticality                  NBAP-ELEMENTARY-PROCEDURE.&criticality ( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
    messageDiscriminator        NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
    transactionID               TransactionID,
    value                       NBAP-ELEMENTARY-PROCEDURE.&InitiatingMessage( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} )
}

SuccessfulOutcome ::= SEQUENCE {
    procedureID                 NBAP-ELEMENTARY-PROCEDURE.&procedureID   ( {NBAP-ELEMENTARY-PROCEDURES} ),
    criticality                  NBAP-ELEMENTARY-PROCEDURE.&criticality ( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
    messageDiscriminator        NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
    transactionID               TransactionID,
    value                       NBAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} )
}

UnsuccessfulOutcome ::= SEQUENCE {
    procedureID                 NBAP-ELEMENTARY-PROCEDURE.&procedureID   ( {NBAP-ELEMENTARY-PROCEDURES} ),
    criticality                  NBAP-ELEMENTARY-PROCEDURE.&criticality ( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
    messageDiscriminator        NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
    transactionID               TransactionID,
    value                       NBAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} )
}

Outcome ::= SEQUENCE {

```

```

procedureID      NBAP-ELEMENTARY-PROCEDURE.&procedureID  ({NBAP-ELEMENTARY-PROCEDURES}),
criticality      NBAP-ELEMENTARY-PROCEDURE.&criticality  ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
transactionID    TransactionID,
value           NBAP-ELEMENTARY-PROCEDURE.&Outcome  ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

```

```

-- *****
--
-- Interface Elementary Procedure List
--
-- *****

```

```

NBAP-ELEMENTARY-PROCEDURES NBAP-ELEMENTARY-PROCEDURE ::= {
  NBAP-ELEMENTARY-PROCEDURES-CLASS-1      |
  NBAP-ELEMENTARY-PROCEDURES-CLASS-2      ,
  ...
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-1 NBAP-ELEMENTARY-PROCEDURE ::= {
  cellSetupFDD
  cellSetupTDD
  cellReconfigurationFDD
  cellReconfigurationTDD
  cellDeletion
  commonTransportChannelSetupFDD
  commonTransportChannelSetupTDD
  commonTransportChannelReconfigureFDD
  commonTransportChannelReconfigureTDD
  commonTransportChannelDelete
  audit
  blockResource
  radioLinkSetupFDD
  radioLinkSetupTDD
  systemInformationUpdate
  commonMeasurementInitiation
  radioLinkAdditionFDD
  radioLinkAdditionTDD
  radioLinkDeletion
  synchronisedRadioLinkReconfigurationPreparationFDD
  synchronisedRadioLinkReconfigurationPreparationTDD
  unSynchronisedRadioLinkReconfigurationFDD
  unSynchronisedRadioLinkReconfigurationTDD
  dedicatedMeasurementInitiation
  physicalSharedChannelReconfiguration
  ...
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
  resourceStatusIndication

```



```

    auditRequired
    commonMeasurementReport
    commonMeasurementTermination
    commonMeasurementFailure
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
    radioLinkFailure
    radioLinkRestoration
    dedicatedMeasurementReport
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
    downlinkPowerControlFDD
    compressedModeCommand
    unblockResource
    errorIndicationForDedicated
    errorIndicationForCommon
    privateMessageForDedicated
    privateMessageForCommon
    ...
}

-- *****
--
-- Interface Elementary Procedures
--
-- *****

-- Class 1

-- *** CellSetup (FDD) ***
cellSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellSetupRequestFDD
    SUCCESSFUL OUTCOME      CellSetupResponse
    UNSUCCESSFUL OUTCOME    CellSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID             { procedureCode id-cellSetup, ddMode fdd }
    CRITICALITY              reject
}

-- *** CellSetup (TDD) ***
cellSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellSetupRequestTDD
    SUCCESSFUL OUTCOME      CellSetupResponse
    UNSUCCESSFUL OUTCOME    CellSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID             { procedureCode id-cellSetup, ddMode tdd }
    CRITICALITY              reject
}

-- *** CellReconfiguration(FDD) ***

```

```

cellReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellReconfigurationRequestFDD
    SUCCESSFUL OUTCOME      CellReconfigurationResponse
    UNSUCCESSFUL OUTCOME    CellReconfigurationFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellReconfiguration, ddMode fdd }
    CRITICALITY             reject
}

-- *** CellReconfiguration(TDD) ***
cellReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellReconfigurationRequestTDD
    SUCCESSFUL OUTCOME      CellReconfigurationResponse
    UNSUCCESSFUL OUTCOME    CellReconfigurationFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellReconfiguration, ddMode tdd }
    CRITICALITY             reject
}

-- *** CellDeletion ***
cellDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellDeletionRequest
    SUCCESSFUL OUTCOME      CellDeletionResponse
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellDeletion, ddMode common }
    CRITICALITY             reject
}

-- *** CommonTransportChannelSetup (FDD) ***
commonTransportChannelSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonTransportChannelSetupRequestFDD
    SUCCESSFUL OUTCOME      CommonTransportChannelSetupResponse
    UNSUCCESSFUL OUTCOME    CommonTransportChannelSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonTransportChannelSetup, ddMode fdd }
    CRITICALITY             reject
}

-- *** CommonTransportChannelSetup (TDD) ***
commonTransportChannelSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonTransportChannelSetupRequestTDD
    SUCCESSFUL OUTCOME      CommonTransportChannelSetupResponse
    UNSUCCESSFUL OUTCOME    CommonTransportChannelSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonTransportChannelSetup, ddMode tdd }
    CRITICALITY             reject
}

-- *** CommonTransportChannelReconfigure (FDD) ***
commonTransportChannelReconfigureFDD NBAP-ELEMENTARY-PROCEDURE ::= {

```

```

INITIATING MESSAGE      CommonTransportChannelReconfigurationRequestFDD
SUCCESSFUL OUTCOME      CommonTransportChannelReconfigurationResponse
UNSUCCESSFUL OUTCOME    CommonTransportChannelReconfigurationFailure
MESSAGE DISCRIMINATOR   common
PROCEDURE ID            { procedureCode id-commonTransportChannelReconfigure, ddMode fdd }
CRITICALITY             reject
}

-- *** CommonTransportChannelReconfigure (TDD) ***
commonTransportChannelReconfigureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonTransportChannelReconfigurationRequestTDD
  SUCCESSFUL OUTCOME      CommonTransportChannelReconfigurationResponse
  UNSUCCESSFUL OUTCOME    CommonTransportChannelReconfigurationFailure
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-commonTransportChannelReconfigure, ddMode tdd }
  CRITICALITY             reject
}

-- *** CommonTransportChannelDelete ***
commonTransportChannelDelete NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonTransportChannelDeletionRequest
  SUCCESSFUL OUTCOME      CommonTransportChannelDeletionResponse
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-commonTransportChannelDelete, ddMode common }
  CRITICALITY             reject
}

-- *** Audit ***
audit NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      AuditRequest
  SUCCESSFUL OUTCOME      AuditResponse
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-audit, ddMode common }
  CRITICALITY             reject
}

-- *** BlockResourceRequest ***
blockResource NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      BlockResourceRequest
  SUCCESSFUL OUTCOME      BlockResourceResponse
  UNSUCCESSFUL OUTCOME    BlockResourceFailure
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-blockResource, ddMode common }
  CRITICALITY             reject
}

-- *** RadioLinkSetup (FDD) ***
radioLinkSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkSetupRequestFDD
  SUCCESSFUL OUTCOME      RadioLinkSetupResponseFDD

```

```
UNSUCCESSFUL OUTCOME    RadioLinkSetupFailureFDD
MESSAGE DISCRIMINATOR   common
PROCEDURE ID            { procedureCode id-radioLinkSetup, ddMode fdd }
CRITICALITY             reject
}

-- *** RadioLinkSetup (TDD) ***
radioLinkSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkSetupRequestTDD
  SUCCESSFUL OUTCOME    RadioLinkSetupResponseTDD
  UNSUCCESSFUL OUTCOME  RadioLinkSetupFailureTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID          { procedureCode id-radioLinkSetup, ddMode tdd }
  CRITICALITY           reject
}

-- *** SystemInformationUpdate ***
systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    SystemInformationUpdateRequest
  SUCCESSFUL OUTCOME    SystemInformationUpdateResponse
  UNSUCCESSFUL OUTCOME  SystemInformationUpdateFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID          { procedureCode id-systemInformationUpdate, ddMode common }
  CRITICALITY           reject
}

-- *** CommonMeasurementInitiation ***
commonMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    CommonMeasurementInitiationRequest
  SUCCESSFUL OUTCOME    CommonMeasurementInitiationResponse
  UNSUCCESSFUL OUTCOME  CommonMeasurementInitiationFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID          { procedureCode id-commonMeasurementInitiation, ddMode common }
  CRITICALITY           reject
}

-- *** RadioLinkAddition (FDD) ***
radioLinkAdditionFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkAdditionRequestFDD
  SUCCESSFUL OUTCOME    RadioLinkAdditionResponseFDD
  UNSUCCESSFUL OUTCOME  RadioLinkAdditionFailureFDD
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID          { procedureCode id-radioLinkAddition, ddMode fdd }
  CRITICALITY           reject
}

-- *** RadioLinkAddition (TDD) ***
radioLinkAdditionTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkAdditionRequestTDD
  SUCCESSFUL OUTCOME    RadioLinkAdditionResponseTDD
```

```
UNSUCCESSFUL OUTCOME    RadioLinkAdditionFailureTDD
MESSAGE DISCRIMINATOR   dedicated
PROCEDURE ID           { procedureCode id-radioLinkAddition, ddMode tdd }
CRITICALITY            reject
}

-- *** RadioLinkDeletion ***
radioLinkDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkDeletionRequest
  SUCCESSFUL OUTCOME    RadioLinkDeletionResponse
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID         { procedureCode id-radioLinkDeletion, ddMode common }
  CRITICALITY          reject
}

-- *** SynchronisedRadioLinkReconfigurationPreparation (FDD) ***
synchronisedRadioLinkReconfigurationPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkReconfigurationPrepareFDD
  SUCCESSFUL OUTCOME    RadioLinkReconfigurationReady
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID         { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
  CRITICALITY          reject
}

-- *** SynchronisedRadioLinkReconfigurationPreparation (TDD) ***
synchronisedRadioLinkReconfigurationPreparationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkReconfigurationPrepareTDD
  SUCCESSFUL OUTCOME    RadioLinkReconfigurationReady
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID         { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
  CRITICALITY          reject
}

-- *** UnSynchronisedRadioLinkReconfiguration (FDD) ***
unSynchronisedRadioLinkReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkReconfigurationRequestFDD
  SUCCESSFUL OUTCOME    RadioLinkReconfigurationResponse
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID         { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
  CRITICALITY          reject
}

-- *** UnSynchronisedRadioLinkReconfiguration (TDD) ***
unSynchronisedRadioLinkReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    RadioLinkReconfigurationRequestTDD
  SUCCESSFUL OUTCOME    RadioLinkReconfigurationResponse
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
}
```

```
MESSAGE DISCRIMINATOR    dedicated
PROCEDURE ID             { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
CRITICALITY              reject
}

-- *** DedicatedMeasurementInitiation ***
dedicatedMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      DedicatedMeasurementInitiationRequest
  SUCCESSFUL OUTCOME      DedicatedMeasurementInitiationResponse
  UNSUCCESSFUL OUTCOME    DedicatedMeasurementInitiationFailure
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-dedicatedMeasurementInitiation, ddMode common }
  CRITICALITY             reject
}

-- *** PhysicalSharedChannelReconfiguration (TDD only) ***
physicalSharedChannelReconfiguration NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      PhysicalSharedChannelReconfigurationRequestTDD
  SUCCESSFUL OUTCOME      PhysicalSharedChannelReconfigurationResponseTDD
  UNSUCCESSFUL OUTCOME    PhysicalSharedChannelReconfigurationFailureTDD
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-physicalSharedChannelReconfiguration, ddMode tdd }
  CRITICALITY             reject
}

-- Class 2

-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      ResourceStatusIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-resourceStatusIndication, ddMode common }
  CRITICALITY             ignore
}

-- *** AuditRequired ***
auditRequired NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      AuditRequiredIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-auditRequired, ddMode common }
  CRITICALITY             ignore
}

-- *** CommonMeasurementReport ***
commonMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonMeasurementReport
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-commonMeasurementReport, ddMode common }
  CRITICALITY             ignore
}
```

```
-- *** CommonMeasurementTermination ***
commonMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonMeasurementTerminationRequest
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-commonMeasurementTermination, ddMode common }
  CRITICALITY             ignore
}

-- *** CommonMeasurementFailure ***
commonMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonMeasurementFailureIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-commonMeasurementFailure, ddMode common }
  CRITICALITY             ignore
}

-- *** SynchronisedRadioLinkReconfirurationCommit ***
synchronisedRadioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationCommit
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
  CRITICALITY             ignore
}

-- *** SynchronisedRadioReconfigurationCancellation ***
synchronisedRadioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationCancel
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
  CRITICALITY             ignore
}

-- *** RadioLinkFailure ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkFailureIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-radioLinkFailure, ddMode common }
  CRITICALITY             ignore
}

-- *** RadioLinkRestoration ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkRestoreIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-radioLinkRestoration, ddMode common }
  CRITICALITY             ignore
}

-- *** DedicatedMeasurementReport ***
```

```
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      DedicatedMeasurementReport
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-dedicatedMeasurementReport, ddMode common }
    CRITICALITY             ignore
}

-- *** DedicatedMeasurementTermination ***
dedicatedMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      DedicatedMeasurementTerminationRequest
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    CRITICALITY             ignore
}

-- *** DedicatedMeasurementFailure ***
dedicatedMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      DedicatedMeasurementFailureIndication
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-dedicatedMeasurementFailure, ddMode common }
    CRITICALITY             ignore
}

-- *** DLPowerControl (FDD only) ***
downlinkPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      DL-PowerControlRequest
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY             ignore
}

-- *** CompressedModeCommand (FDD only) ***
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CompressedModeCommand
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-compressedModeCommand, ddMode fdd }
    CRITICALITY             ignore
}

-- *** UnblockResourceIndication ***
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      UnblockResourceIndication
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-unblockResource, ddMode common }
    CRITICALITY             ignore
}

-- *** ErrorIndication for Dedicated procedures ***
errorIndicationForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      ErrorIndication
}
```



```

MESSAGE DISCRIMINATOR    dedicated
PROCEDURE ID             { procedureCode id-errorIndicationForDedicated, ddMode common }
CRITICALITY              ignore
}

-- *** ErrorIndication for Common procedures ***
errorIndicationForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE     ErrorIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID           { procedureCode id-errorIndicationForCommon, ddMode common }
  CRITICALITY            ignore
}

-- *** PrivateMessage for Dedicated procedures ***
privateMessageForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE     PrivateMessage
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID           { procedureCode id-privateMessageForDedicated, ddMode common }
  CRITICALITY            ignore
}

-- *** PrivateMessage for Common procedures ***
privateMessageForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE     PrivateMessage
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID           { procedureCode id-privateMessageForCommon, ddMode common }
  CRITICALITY            ignore
}

END

```

### 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-DPCCCH-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
FROM NBAP-IEs

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

id-Active-Pattern-Sequence-Information,
id-AdjustmentRatio,
id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rqst,
id-AllRLItem-Set-DM-Rqst,
id-AP-AICH-InformationItem-AuditRsp,
id-AP-AICH-InformationItem-ResourceStatusInd,
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CauseLevel-PSCH-ReconfFailureTDD,
id-CauseLevel-RL-AdditionFailureFDD,
id-CauseLevel-RL-AdditionFailureTDD,
id-CauseLevel-RL-ReconfFailure,
id-CauseLevel-RL-SetupFailureFDD,
id-CauseLevel-RL-SetupFailureTDD,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-CDCA-ICH-InformationItem-AuditRsp,
id-CDCA-ICH-InformationItem-ResourceStatusInd,
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-Cell-InformationItem-AuditRsp,
```

id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellItem-CM-Rprt,  
id-CellItem-CM-Rqst,  
id-CellItem-CM-Rsp,  
id-CellParameterID,  
id-CFN,  
id-C-ID,  
id-Closed-Loop-Timing-Adjustment-Mode,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommunicationControlPortID,  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,  
id-ConfigurationGenerationID,  
id-CPCH-InformationItem-AuditRsp,  
id-CPCH-InformationItem-ResourceStatusInd,  
id-CPCHItem-CM-Rprt,  
id-CPCHItem-CM-Rqst,  
id-CPCHItem-CM-Rsp,  
id-CPCHListItem-CTCH-ReconfRqstFDD,  
id-CPCH-Parameters-CTCH-SetupRsp,  
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseListIE-RL-ReconfReady,  
id-DCH-InformationResponseListIE-RL-ReconfRsp,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,

id-DCH-ModifyList-RL-ReconfPrepFDD,  
 id-DCH-ModifyList-RL-ReconfPrepTDD,  
 id-DCH-ModifyList-RL-ReconfRqstFDD,  
 id-DCH-ModifyList-RL-ReconfRqstTDD,  
 id-DedicatedMeasurementObjectType-DM-Rprt ,  
 id-DedicatedMeasurementObjectType-DM-Rqst ,  
 id-DedicatedMeasurementObjectType-DM-Rsp ,  
 id-DedicatedMeasurementType ,  
 id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ,  
 id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ,  
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ,  
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ,  
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD ,  
 id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD ,  
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD ,  
 id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ,  
 id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ,  
 id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ,  
 id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ,  
 id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD ,  
 id-DL-DPCH-InformationItem-RL-AdditionRqstTDD ,  
 id-DL-DPCH-InformationList-RL-AdditionRqstTDD ,  
 id-DL-DPCH-InformationList-RL-SetupRqstTDD ,  
 id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ,  
 id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ,  
 id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ,  
 id-DL-DPCH-Information-RL-ReconfPrepFDD ,  
 id-DL-DPCH-Information-RL-ReconfRqstFDD ,  
 id-DL-DPCH-Information-RL-SetupRqstFDD ,  
 id-DL-ReferencePowerInformationItem-DL-PC-Rqst ,  
 id-DLReferencePower ,  
 id-DLReferencePowerList-DL-PC-Rqst ,  
 id-DL-TPC-Pattern01Count ,  
 id-DPCHConstant ,  
 id-DSCH-AddItem-RL-ReconfPrepFDD ,  
 id-DSCH-AddItem-RL-ReconfRqstFDD ,  
 id-DSCH-AddList-RL-ReconfPrepFDD ,  
~~id-DSCH-AddList-RL-ReconfRqstFDD ,~~  
 id-DSCH-DeleteItem-RL-ReconfPrepFDD ,  
 id-DSCH-DeleteItem-RL-ReconfRqstFDD ,  
 id-DSCH-DeleteList-RL-ReconfPrepFDD ,  
~~id-DSCH-DeleteList-RL-ReconfRqstFDD ,~~  
 id-DSCH-ID ,  
 id-DSCH-information-AddList-RL-ReconfPrepTDD ,  
~~id-DSCH-Information-AddList-RL-ReconfRqstTDD ,~~  
 id-DSCH-Information-DeleteList-RL-ReconfPrepTDD ,  
~~id-DSCH-Information-DeleteList-RL-ReconfRqstTDD ,~~  
 id-DSCH-Information-ModifyList-RL-ReconfPrepTDD ,  
~~id-DSCH-Information-ModifyList-RL-ReconfRqstTDD ,~~  
 id-DSCH-InformationResponseListIE-RL-AdditionRspTDD ,

id-DSCH-InformationResponseListIE-RL-ReconfReady,  
id-DSCH-InformationResponseListIE-RL-ReconfRsp,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
~~id-DSCH-ModifyList-RL-ReconfRqstFDD,~~  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-GeneralCauseItem-PSCH-ReconfFailureTDD,  
id-GeneralCauseItem-RL-AdditionFailureFDD,  
id-GeneralCauseItem-RL-AdditionFailureTDD,  
id-GeneralCauseItem-RL-ReconfFailure,  
id-GeneralCauseItem-RL-SetupFailureFDD,  
id-GeneralCauseItem-RL-SetupFailureTDD,  
id-IndicationType-ResourceStatusInd,  
id-Limited-power-increase-information-Cell-SetupRqstFDD,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementAvailableItem-CommonMeasurementReport,  
id-MeasurementnotAvailableItem-CommonMeasurementReport,  
id-MeasurementAvailableItem-DedicatedMeasurementReport,  
id-MeasurementnotAvailableItem-DedicatedMeasurementReport,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,  
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,



id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PCPCH-InformationItem-AuditRsp,  
id-PCPCH-InformationItem-ResourceStatusInd,  
id-PCPCHItem-CTCH-SetupRqstFDD,  
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD,  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHConstant,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACHListIE-CTCH-ReconfRqstFDD,  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,

id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHConstant,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-RACH-InformationItem-AuditRsp,  
id-RACH-InformationItem-ResourceStatusInd,  
id-RACHItem-CTCH-SetupRsp,  
id-RACHItem-CM-Rprt,  
id-RACHItem-CM-Rqst,  
id-RACHItem-CM-Rsp,  
id-RACH-Parameters-CTCH-SetupRsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,

id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-RLSpecificCauseItem-RL-AdditionFailureFDD,  
id-RLSpecificCauseItem-RL-AdditionFailureTDD,  
id-RLSpecificCauseItem-RL-ReconfFailure,  
id-RLSpecificCauseItem-RL-SetupFailureFDD,  
id-RLSpecificCauseItem-RL-SetupFailureTDD,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SetSpecificCauseItem-PSCH-ReconfFailureTDD,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
id-Synchronisation-Configuration-Cell-SetupRqst,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,

id-T-Cell,  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,  
id-TFCI2-BearerInformationResponse-RL-SetupRspFDD,  
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,

id-Transmission-Gap-Pattern-Sequence-Information,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-Information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-ReconfReady,  
id-USCH-InformationResponseListIE-RL-ReconfRsp,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,

```

id-USCH-InformationList-RL-SetupRqstTDD,

maxNrOfCCTrCHs,
maxNrOfCodes,
maxNrOfCPCHs,
maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDLTSs,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPCPCHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSs,
maxNrOfUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxLocalCellinNodeB,
maxNrOfSlotFormatsPRACH,
maxIB,
maxIBSEG
FROM NBAP-Constants;

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
--
-- *****

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

```

```

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

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory
  }|
  { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE
  mandatory }|
  { ID id-CommonPhysicalChannelType-CTCH-SetupRqstFDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCH-SetupRqstFDD
  PRESENCE mandatory },
  ...
}

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
  secondary-CCPCH-parameters Secondary-CCPCH-CTCH-SetupRqstFDD,
  PRACH-parameters PRACH-CTCH-SetupRqstFDD,
  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,
  pCPCHChannelInfomation         PCPCHChannelInformationList-CTCH-SetupRqstFDD,
  vCAMMapping-Information        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,
    channelRequestParameters          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               APSubChannelNumber 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,
    sFrequestParameters              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       APSubChannelNumber 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                DL-Power,
    cSICH-Power                  DL-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               DL-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 ::= {
    ...
}

```

```

-- *****
--
-- 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 {
    cTrCH-ID          CTrCH-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,
  midambleShift                   MidambleShift,
  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,
    midambleShift                     MidambleShift,
    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                          RACH-Parameter-CTCH-SetupRqstTDD,
    iE-Extensions                 ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

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 ::= {
    ...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
--
-- *****

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

CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersList-CTCH-SetupRsp      CRITICALITY ignore    TYPE FACH-ParametersList-CTCH-SetupRsp    PRESENCE optional }|
    { ID id-PCH-Parameters-CTCH-SetupRsp          CRITICALITY ignore    TYPE PCH-Parameters-CTCH-SetupRsp        PRESENCE optional }|
    { ID id-RACH-Parameters-CTCH-SetupRsp         CRITICALITY ignore    TYPE RACH-Parameters-CTCH-SetupRsp      PRESENCE optional }|
    { ID id-CPCH-Parameters-CTCH-SetupRsp         CRITICALITY ignore    TYPE CPCH-Parameters-CTCH-SetupRsp      PRESENCE optional }|

```



```

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

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

FACH-ParametersList-CTCH-SetupRsp ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRsp

FACH-ParametersItem-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bindingID                     BindingID,
    transportLayerAddress         TransportLayerAddress,
    iE-Extensions                 ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

FACH-ParametersItem-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bindingID                     BindingID,
    transportLayerAddress         TransportLayerAddress,
    iE-Extensions                 ProtocolExtensionContainer { { PCH-Parameters-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

PCH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bindingID                     BindingID,
    transportLayerAddress         TransportLayerAddress,
    iE-Extensions                 ProtocolExtensionContainer { { RACH-Parameters-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

RACH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bindingID                     BindingID,

```

```

transportLayerAddress      TransportLayerAddress,
iE-Extensions              ProtocolExtensionContainer { { CPCH-Parameters-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
...
}

CPCH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP FAILURE
--
-- *****

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

CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
{ ID      id-Cause          CRITICALITY ignore   TYPE      Cause          PRESENCE mandatory }|
{ ID      id-CriticalityDiagnostics CRITICALITY ignore   TYPE      CriticalityDiagnostics PRESENCE optional  },
...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

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

CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
{ ID      id-C-ID          CRITICALITY reject   TYPE      C-ID          PRESENCE mandatory }|
{ ID      id-ConfigurationGenerationID CRITICALITY reject   TYPE      ConfigurationGenerationID PRESENCE mandatory }|
{ ID      id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD CRITICALITY reject   TYPE      CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE mandatory
},
...
}

```

```

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

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCHList-CTCH-ReconfRqstFDD,
    pRACH-parameters                PRACHList-CTCH-ReconfRqstFDD,
    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                      DL-Power,
    cSICH-Power                        DL-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                    DL-Power,
    iE-Extensions                      ProtocolExtensionContainer { { CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD

```

```

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

CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY reject      TYPE C-ID          PRESENCE mandatory }
    }|
    { ID id-ConfigurationGenerationID CRITICALITY reject      TYPE ConfigurationGenerationID          PRESENCE mandatory }|
    { ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD          CRITICALITY reject      TYPE Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD          PRESENCE optional }|
    { ID id-PICH-Parameters-CTCH-ReconfRqstTDD          CRITICALITY reject      TYPE PICH-Parameters-CTCH-ReconfRqstTDD          PRESENCE optional }|
    { ID id-FACH-ParametersList-CTCH-ReconfRqstTDD          CRITICALITY reject      TYPE FACH-ParametersList-CTCH-ReconfRqstTDD          PRESENCE optional }|
    { ID id-PCH-Parameters-CTCH-ReconfRqstTDD          CRITICALITY reject      TYPE PCH-Parameters-CTCH-ReconfRqstTDD          PRESENCE optional },
    ...
}

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

Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    secondaryCCPCHList Secondary-CCPCHList-CTCH-ReconfRqstTDD          OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs} }          OPTIONAL,
    ...
}

Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD

Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    sCCPCH-Power          DL-Power,
    iE-Extensions          ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs} }          OPTIONAL,

```



```

}
...
}

Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    pICH-Power                    DL-Power,
    iE-Extensions                 ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-ParametersList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRqstTDD

FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    toAWS                          ToAWS OPTIONAL,
    toAWE                          ToAWE OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    toAWS                          ToAWS OPTIONAL,
    toAWE                          ToAWE OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE
--
-- *****

```

```

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

CommonTransportChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CriticalityDiagnostics    CRITICALITY    ignore    TYPE    CriticalityDiagnostics    PRESENCE optional},
    ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE
--
-- *****

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

CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-Cause          CRITICALITY ignore    TYPE    Cause          PRESENCE mandatory }|
    { ID    id-CriticalityDiagnostics    CRITICALITY ignore    TYPE    CriticalityDiagnostics    PRESENCE optional },
    ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL DELETION REQUEST
--
-- *****

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

CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {

```

```

    { ID      id-C-ID                CRITICALITY reject      TYPE      C-ID                PRESENCE  mandatory }|
    { ID      id-CommonPhysicalChannelID  CRITICALITY reject      TYPE      CommonPhysicalChannelID  PRESENCE  mandatory }|
      { ID      id-ConfigurationGenerationID  CRITICALITY reject      TYPE      ConfigurationGenerationID  PRESENCE  mandatory },
    ...
  }

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

-- *****
--
-- COMMON TRANSPORT CHANNEL DELETION RESPONSE
--
-- *****

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

CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-CriticalityDiagnostics      CRITICALITY  ignore      TYPE      CriticalityDiagnostics      PRESENCE  optional },
  ...
}

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

-- *****
--
-- BLOCK RESOURCE REQUEST
--
-- *****

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

BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-C-ID                CRITICALITY reject      TYPE      C-ID                PRESENCE  mandatory }|
  { ID      id-BlockingPriorityIndicator  CRITICALITY reject      TYPE      BlockingPriorityIndicator  PRESENCE  mandatory }|
  { ID      id-ShutdownTimer            CRITICALITY reject      TYPE      ShutdownTimer            PRESENCE  conditional },
  -- The IE is present when the Blocking Priority IndicatorIE indicates 'Normal Priority'--
  ...
}

```

```

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

-- *****
--
-- BLOCK RESOURCE RESPONSE
--
-- *****

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

BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics      CRITICALITY      ignore      TYPE      CriticalityDiagnostics      PRESENCE optional},
    ...
}

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

-- *****
--
-- BLOCK RESOURCE FAILURE
--
-- *****

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

BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-Cause                      CRITICALITY      ignore      TYPE      Cause                      PRESENCE mandatory }|
    { ID      id-CriticalityDiagnostics     CRITICALITY      ignore      TYPE      CriticalityDiagnostics     PRESENCE optional },
    ...
}

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

-- *****
--

```

```

-- UNBLOCK RESOURCE INDICATION
--
-- *****

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

UnblockResourceIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID      CRITICALITY  ignore      TYPE      C-ID      PRESENCE  mandatory},
    ...
}

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

-- *****
--
-- AUDIT REQUIRED INDICATION
--
-- *****

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

AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
    ...
}

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

-- *****
--
-- AUDIT REQUEST
--
-- *****

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

```

```

AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
    ...
}

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

-- *****
--
-- AUDIT RESPONSE
--
-- *****

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

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeBInformation-AuditRep CRITICALITY ignore TYPE NodeBInformation-AuditRsp PRESENCE mandatory }|
    { ID      id-Cell-InformationList-AuditRsp          CRITICALITY ignore TYPE Cell-InformationList-AuditRsp PRESENCE optional }|
    }|
    { ID      id-CCP-InformationList-AuditRsp          CRITICALITY ignore TYPE CCP-InformationList-AuditRsp PRESENCE optional }|
    -- CCP (Communication Control Port) --
    { ID      id-Local-Cell-InformationList-AuditRsp    CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp PRESENCE optional }|
    { ID      id-CriticalityDiagnostics                CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

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

NodeBInformation-AuditRsp ::= SEQUENCE {
    dl-or-global-capacityCredit          DL-or-Global-CapacityCredit,
    ul-capacityCredit                    UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    IE-Extensions                        ProtocolExtensionContainer { { NodeBInformation-AuditRep-ExtIEs} }    OPTIONAL,
    ...
}

NodeBInformation-AuditRep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Container {{ Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-InformationItem-AuditRsp CRITICALITY ignore TYPE Cell-InformationItem-AuditRsp PRESENCE optional },
  ...
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {
  c-ID C-ID,
  configurationGenerationID ConfigurationGenerationID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  local-Cell-ID Local-Cell-ID,
  maximumDL-PowerCapability MaximumDL-PowerCapability, -- to do: FFS
  minSpreadingFactor MinSpreadingFactor, -- to do: FFS
  primary-SCH-Information P-SCH-Information-AuditRsp OPTIONAL,
  secondary-SCH-Information S-SCH-Information-AuditRsp OPTIONAL,
  primary-CPICH-Information P-CPICH-Information-AuditRsp OPTIONAL,
  secondary-CPICH-InformationList S-CPICH-InformationList-AuditRsp OPTIONAL,
  primary-CCPCH-Information P-CCPCH-Information-AuditRsp OPTIONAL,
  bCH-Information BCH-Information-AuditRsp OPTIONAL,
  secondary-CCPCH-InformationList S-CCPCH-InformationList-AuditRsp OPTIONAL,
  pCH-Information PCH-Information-AuditRsp OPTIONAL,
  pICH-Information PICH-Information-AuditRsp OPTIONAL,
  fACH-InformationList FACH-InformationList-AuditRsp OPTIONAL,
  pRACH-InformationList PRACH-InformationList-AuditRsp OPTIONAL,
  rACH-InformationList RACH-InformationList-AuditRsp OPTIONAL,
  aICH-InformationList AICH-InformationList-AuditRsp OPTIONAL,
  pCPCH-InformationList PCPCH-InformationList-AuditRsp OPTIONAL,
  cPCH-InformationList CPCH-InformationList-AuditRsp OPTIONAL,
  aP-AICH-InformationList AP-AICH-InformationList-AuditRsp OPTIONAL,
  cDCA-ICH-InformationList CDCA-ICH-InformationList-AuditRsp OPTIONAL,
  sCH-Information SCH-Information-AuditRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs} } OPTIONAL,
  ...
}

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

P-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-SCH-InformationIE-AuditRsp }}

P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-SCH-InformationItem-AuditRsp PRESENCE mandatory },
  ...
}

P-SCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,

```

```

    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { P-SCH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

P-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ S-SCH-InformationIE-AuditRsp }}

S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE S-SCH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

S-SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { S-SCH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

S-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CPICH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CPICH-InformationIE-AuditRsp }}

P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-CPICH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

P-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { P-CPICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

P-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-AuditRsp }}

```



```

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE S-CPICH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

S-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer  { { S-CPICH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

S-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE P-CCPCH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

P-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer  { { P-CCPCH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

P-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

BCH-Information-AuditRsp ::= ProtocolIE-Container {{ BCH-InformationIE-AuditRsp }}

BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE BCH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

BCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonTransportChannelID     CommonTransportChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer  { { BCH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

```

```

BCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE S-CCPCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

S-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { S-CCPCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

S-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Information-AuditRsp ::= ProtocolIE-Container {{ PCH-InformationIE-AuditRsp }}

PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE PCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

PCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { PCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

PCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Information-AuditRsp ::= ProtocolIE-Container {{ PICH-InformationIE-AuditRsp }}

PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PICH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE PICH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

PICH-InformationItem-AuditRsp ::= SEQUENCE {

```

```

    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { PICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

PICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-AuditRsp }}

FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-InformationItem-AuditRsp CRITICALITY ignore TYPE FACH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

FACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { FACH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

FACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-AuditRsp }}

PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-AuditRsp CRITICALITY ignore TYPE PRACH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

PRACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID     CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { PRACH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

PRACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE RACH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

RACH-InformationItem-AuditRsp ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus            AvailabilityStatus,
  iE-Extensions                 ProtocolExtensionContainer { { RACH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

RACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE AICH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

AICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus            AvailabilityStatus,
  iE-Extensions                 ProtocolExtensionContainer { { AICH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-AuditRsp }}

PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE PCPCH-InformationItem-AuditRsp  PRESENCE optional },
  ...
}

PCPCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus            AvailabilityStatus,
  iE-Extensions                 ProtocolExtensionContainer { { PCPCH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
}

```

```

...
}
PCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-AuditRsp }}
CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE CPCH-InformationItem-AuditRsp  PRESENCE optional },
  ...
}
CPCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus            AvailabilityStatus,
  iE-Extensions                 ProtocolExtensionContainer { { CPCH-InformationItem-AuditRsp-ExtIEs} }  OPTIONAL,
  ...
}
CPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-AuditRsp }}
AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE AP-AICH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}
AP-AICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus            AvailabilityStatus,
  iE-Extensions                 ProtocolExtensionContainer { { AP-AICH-InformationItem-AuditRsp-ExtIEs} }  OPTIONAL,
  ...
}
AP-AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
CDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}
CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE CDCA-ICH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

```

```

}

CDCA-ICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { CDCA-ICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

CDCA-ICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SCH-Information-AuditRsp ::= ProtocolIE-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE SCH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { SCH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    {ID id-CCP-InformationItem-AuditRsp CRITICALITY ignore TYPE CCP-InformationItem-AuditRsp PRESENCE mandatory},
    ...
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
    communicationControlPortID   CommunicationControlPortID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }} OPTIONAL,
    ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

Local-Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellInNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE-AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID      id-Local-Cell-InformationItem-AuditRsp      CRITICALITY  ignore          TYPE  Local-Cell-InformationItem-AuditRsp  PRESENCE
    mandatory},
  ...
}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
  local-Cell-ID                Local-Cell-ID,
  dl-or-global-capacityCredit  DL-or-Global-CapacityCredit,
  ul-capacityCredit            UL-CapacityCredit          OPTIONAL,
  commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw,
  maximumDL-PowerCapability      MaximumDL-PowerCapability    OPTIONAL,
  iE-Extensions                 ProtocolExtensionContainer  {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}  OPTIONAL,
  ...
}

Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION REQUEST
--
-- *****

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

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-MeasurementID                CRITICALITY  reject          TYPE  MeasurementID                PRESENCE  mandatory  }|
  { ID      id-CommonMeasurementObjectType-CM-Rqst  CRITICALITY  ignore          TYPE  CommonMeasurementObjectType-CM-Rqst  PRESENCE
    mandatory  }|
  -- This IE represents both the Common Measurement Object Type IE and the choice based on the Common Measurement Object Type
  -- as described in the tabular message format in subclause 9.1.
  { ID      id-CommonMeasurementType        CRITICALITY  reject          TYPE  CommonMeasurementType        PRESENCE  mandatory
  }|
  { ID      id-MeasurementFilterCoefficient  CRITICALITY  reject          TYPE  MeasurementFilterCoefficient  PRESENCE  optional
  }|
  { ID      id-ReportCharacteristics        CRITICALITY  reject          TYPE  ReportCharacteristics        PRESENCE  mandatory
  },
  ...
}

```

```

}

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

CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
    cell                Cell-CM-Rqst,
    rACH                RACH-CM-Rqst,
    cPCH                CPCH-CM-Rqst,
    ...
}

Cell-CM-Rqst ::= ProtocolIE-Container {{ CellIE-CM-Rqst }}

CellIE-CM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-CellItem-CM-Rqst  CRITICALITY reject  TYPE CellItem-CM-Rqst  PRESENCE mandatory },
    ...
}

CellItem-CM-Rqst ::= SEQUENCE {
    c-ID                C-ID,
    timeSlot            TimeSlot  OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs } }  OPTIONAL,
    ...
}

CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-CM-Rqst ::= ProtocolIE-Container {{ RACHIE-CM-Rqst }}

RACHIE-CM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-RACHItem-CM-Rqst  CRITICALITY reject  TYPE RACHItem-CM-Rqst  PRESENCE mandatory },
    ...
}

RACHItem-CM-Rqst ::= SEQUENCE {
    c-ID                C-ID,
    commonTransportChannelID  CommonTransportChannelID,
    iE-Extensions       ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs } }  OPTIONAL,
    ...
}

RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-CM-Rqst ::= ProtocolIE-Container {{ CPCHIE-CM-Rqst }}

```



```

CPCHIE-CM-Rqst NBAP-PROTOCOL-IES ::= {
  { ID id-CPCHItem-CM-Rqst    CRITICALITY reject    TYPE CPCHItem-CM-Rqst    PRESENCE optional },
  ...
}

CPCHItem-CM-Rqst ::= SEQUENCE {
  c-ID                               C-ID,
  commonTransportChannelID           CommonTransportChannelID,
  spreadingfactor                     MinUL-ChannelisationCodeLength    OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { { CPCHItem-CM-Rqst-ExtIEs } }    OPTIONAL,
  ...
}

CPCHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION RESPONSE
--
-- *****

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

CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-MeasurementID           CRITICALITY ignore           TYPE    MeasurementID           PRESENCE mandatory }|
  { ID    id-CommonMeasurementObjectType-CM-Rsp    CRITICALITY ignore           TYPE    CommonMeasurementObjectType-CM-Rsp    PRESENCE mandatory }|
  }|
  { ID    id-SFN                       CRITICALITY ignore           TYPE    SFN                       PRESENCE optional }|
  { ID    id-CriticalityDiagnostics        CRITICALITY ignore           TYPE    CriticalityDiagnostics        PRESENCE optional },
  ...
}

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

CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
  cell                Cell-CM-Rsp,
  rACH                 RACH-CM-Rsp,
  cPCH                 CPCH-CM-Rsp,
  ...
}

```

```

Cell-CM-Rsp ::= ProtocolIE-Container {{ CellIE-CM-Rsp }}

CellIE-CM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-CellItem-CM-Rsp  CRITICALITY ignore  TYPE CellItem-CM-Rsp  PRESENCE mandatory },
  ...
}

CellItem-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue  CommonMeasurementValue,
  iE-Extensions            ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs } }  OPTIONAL,
  ...
}

CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-CM-Rsp ::= ProtocolIE-Container {{ RACHIE-CM-Rsp }}

RACHIE-CM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-RACHItem-CM-Rsp  CRITICALITY ignore  TYPE RACHItem-CM-Rsp  PRESENCE mandatory },
  ...
}

RACHItem-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue  CommonMeasurementValue,
  iE-Extensions            ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs } }  OPTIONAL,
  ...
}

RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-CM-Rsp ::= ProtocolIE-Container {{ CPCHIE-CM-Rsp }}

CPCHIE-CM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-CPCHItem-CM-Rsp  CRITICALITY ignore  TYPE CPCHItem-CM-Rsp  PRESENCE optional },
  ...
}

CPCHItem-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue  CommonMeasurementValue,
  iE-Extensions            ProtocolExtensionContainer { { CPCHItem-CM-Rsp-ExtIEs } }  OPTIONAL,
  ...
}

CPCHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- COMMON MEASUREMENT INITIATION FAILURE
--
-- *****

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

CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-MeasurementID          CRITICALITY ignore          TYPE      MeasurementID          PRESENCE mandatory }|
    { ID      id-Cause                  CRITICALITY ignore          TYPE      Cause                    PRESENCE mandatory }|
    { ID      id-CriticalityDiagnostics CRITICALITY ignore          TYPE      CriticalityDiagnostics      PRESENCE optional },
    ...
}

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

-- *****
--
-- COMMON MEASUREMENT REPORT
--
-- *****

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

CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-MeasurementID          CRITICALITY ignore          TYPE      MeasurementID          PRESENCE mandatory }|
    { ID      id-CommonMeasurementObjectType-CM-Rprt CRITICALITY ignore          TYPE      CommonMeasurementObjectType-CM-Rprt PRESENCE mandatory }|
    }|
    { ID      id-SFN                    CRITICALITY ignore          TYPE      SFN                    PRESENCE optional },
    ...
}

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

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 {
    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-ExtIEs } }          OPTIONAL,
    ...
}

MeasurementAvailableItem-CommonMeasurementReport-ExtIEs 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

-- *****
--
-- COMMON MEASUREMENT TERMINATION REQUEST
--
-- *****

CommonMeasurementTerminationRequest ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{CommonMeasurementTerminationRequest-IEs}},

```

```

    protocolExtensions      ProtocolExtensionContainer  {{CommonMeasurementTerminationRequest-Extensions}}  OPTIONAL,
    ...
}

CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-MeasurementID          CRITICALITY  ignore          TYPE      MeasurementID          PRESENCE mandatory },
  ...
}

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

-- *****
--
-- COMMON MEASUREMENT FAILURE INDICATION
--
-- *****

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

CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-MeasurementID          CRITICALITY ignore          TYPE      MeasurementID          PRESENCE mandatory  }|
  { ID      id-Cause                  CRITICALITY ignore          TYPE      Cause                  PRESENCE mandatory  },
  ...
}

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

-- *****
--
-- CELL SETUP REQUEST FDD
--
-- *****

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

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-Local-Cell-ID          CRITICALITY  reject          TYPE      Local-Cell-ID          PRESENCE
  mandatory  }|

```

{ ID id-C-ID mandatory }	CRITICALITY	reject	TYPE C-ID	PRESENCE
{ ID id-ConfigurationGenerationID PRESENCE mandatory }	CRITICALITY	reject	TYPE ConfigurationGenerationID	
{ ID id-T-Cell mandatory }	CRITICALITY	reject	TYPE T-Cell	PRESENCE
{ ID id-UARFCNforNu mandatory }	CRITICALITY	reject	TYPE UARFCN	PRESENCE
{ ID id-UARFCNforNd mandatory }	CRITICALITY	reject	TYPE UARFCN	PRESENCE
{ ID id-MaximumTransmissionPower PRESENCE mandatory }	CRITICALITY	reject	TYPE MaximumTransmissionPower	
{ ID id-Closed-Loop-Timing-Adjustment-Mode PRESENCE optional }	CRITICALITY	reject	TYPE Closedlooptimingadjustmentmode	
{ ID id-PrimaryScramblingCode PRESENCE mandatory }	CRITICALITY	reject	TYPE PrimaryScramblingCode	
{ ID id-DL-TPC-Pattern01Count PRESENCE mandatory }	CRITICALITY	reject	TYPE DL-TPC-Pattern01Count	
{ ID id-Synchronisation-Configuration-Cell-SetupRqst PRESENCE mandatory }	CRITICALITY	reject	TYPE Synchronisation-Configuration-Cell-SetupRqst	
{ ID id-PrimarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }	CRITICALITY	reject	TYPE PrimarySCH-Information-Cell-SetupRqstFDD	
{ ID id-SecondarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }	CRITICALITY	reject	TYPE SecondarySCH-Information-Cell-SetupRqstFDD	
{ ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD PRESENCE mandatory }	CRITICALITY	reject	TYPE PrimaryCPICH-Information-Cell-SetupRqstFDD	
{ ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD PRESENCE optional }	CRITICALITY	reject	TYPE SecondaryCPICH-InformationList-Cell-SetupRqstFDD	
{ ID id-PrimaryCCPCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }	CRITICALITY	reject	TYPE PrimaryCCPCH-Information-Cell-SetupRqstFDD	
{ ID id-Limited-power-increase-information-Cell-SetupRqstFDD PRESENCE mandatory },	CRITICALITY	reject	TYPE Limited-power-increase-information-Cell-	
SetupRqstFDD				
...				
}				
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 FDD-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          CRITICALITY  reject      TYPE  Local-Cell-ID          PRESENCE
      mandatory  }|
      { ID      id-C-ID                  CRITICALITY  reject      TYPE  C-ID                    PRESENCE
      mandatory  }|
    { ID      id-ConfigurationGenerationID  CRITICALITY  reject      TYPE  ConfigurationGenerationID  PRESENCE
      mandatory  }|
    { ID      id-UARFCNforNt              CRITICALITY  reject      TYPE  UARFCN                     PRESENCE
      mandatory  }|
    { ID      id-CellParameterID          CRITICALITY  reject      TYPE  CellParameterID            PRESENCE
      mandatory  }|
    { ID      id-MaximumTransmissionPower  CRITICALITY  reject      TYPE  MaximumTransmissionPower    PRESENCE
      mandatory  }|
    { ID      id-TransmissionDiversityApplied  CRITICALITY  reject      TYPE  TransmissionDiversityApplied  PRESENCE
      mandatory  }|
    { ID      id-SyncCase                  CRITICALITY  reject      TYPE  SyncCase                    PRESENCE
      mandatory  }|
    { ID      id-DPCHConstant              CRITICALITY  reject      TYPE  ConstantValue               PRESENCE
      mandatory  }|
    { ID      id-PUSCHConstant             CRITICALITY  reject      TYPE  ConstantValue               PRESENCE
      mandatory  }|
    { ID      id-PRACHConstant             CRITICALITY  reject      TYPE  ConstantValue               PRESENCE
      mandatory  }|
    { ID      id-Synchronisation-Configuration-Cell-SetupRqst  CRITICALITY  reject      TYPE  Synchronisation-Configuration-Cell-SetupRqst
      PRESENCE  mandatory  }|
    { ID      id-SCH-Information-Cell-SetupRqstTDD  CRITICALITY  reject      TYPE  SCH-Information-Cell-SetupRqstTDD          PRESENCE
      mandatory  }|
    { ID      id-PCCPCH-Information-Cell-SetupRqstTDD  CRITICALITY  reject      TYPE  PCCPCH-Information-Cell-SetupRqstTDD
      PRESENCE  mandatory  }|
    { ID      id-TimeSlotConfigurationList-Cell-SetupRqstTDD  CRITICALITY  reject      TYPE  TimeSlotConfigurationList-Cell-SetupRqstTDD
      PRESENCE  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 ::= {
    ...
}

-- *****
--
-- CELL SETUP RESPONSE
--
-- *****

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

CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics      CRITICALITY      ignore      TYPE      CriticalityDiagnostics      PRESENCE optional},

```

```

...
}

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

-- *****
--
-- CELL SETUP FAILURE
--
-- *****

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

CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-Cause          CRITICALITY    ignore          TYPE    Cause          PRESENCE mandatory }|
    { ID    id-CriticalityDiagnostics    CRITICALITY    ignore          TYPE    CriticalityDiagnostics    PRESENCE optional },
    ...
}

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

-- *****
--
-- CELL RECONFIGURATION REQUEST FDD
--
-- *****

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

CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-C-ID          CRITICALITY    reject          TYPE    C-ID          PRESENCE
    mandatory }|
    { ID    id-ConfigurationGenerationID    CRITICALITY    reject          TYPE    ConfigurationGenerationID
    PRESENCE mandatory }|
    { ID    id-MaximumTransmissionPower    CRITICALITY    reject          TYPE    MaximumTransmissionPower
    PRESENCE optional }|
    { ID    id-Synchronisation-Configuration-Cell-ReconfRqst    CRITICALITY    reject          TYPE    Synchronisation-Configuration-Cell-ReconfRqst
    PRESENCE optional }|

```

```

    { ID id-PrimarySCH-Information-Cell-ReconfRqstFDD          CRITICALITY reject          TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
    { ID id-SecondarySCH-Information-Cell-ReconfRqstFDD        CRITICALITY reject          TYPE SecondarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
    { ID id-PrimaryCPICH-Information-Cell-ReconfRqstFDD        CRITICALITY reject          TYPE PrimaryCPICH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
    { ID id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD CRITICALITY reject          TYPE SecondaryCPICH-InformationList-Cell-ReconfRqstFDD
    PRESENCE optional }|
    { ID id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD        CRITICALITY reject          TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional },
    ...
}

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

Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE {
    n-INSYNC-IND          N-INSYNC-IND,
    n-OUTSYNC-IND         N-OUTSYNC-IND,
    t-RLFFAILURE          T-RLFFAILURE,
    iE-Extensions         ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PrimarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    primarySCH-Power         DL-Power,
    iE-Extensions           ProtocolExtensionContainer { { PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    secondarySCH-Power       DL-Power,
    iE-Extensions           ProtocolExtensionContainer { { SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    primaryCPICH-Power               PrimaryCPICH-Power,
    iE-Extensions                    ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container{{ SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD }}

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

SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    secondaryCPICH-Power            DL-Power,
    iE-Extensions                    ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

PrimaryCCPCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    bCH-information                 BCH-information-Cell-ReconfRqstFDD,
    iE-Extensions                    ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID        CommonTransportChannelID,
    bCH-Power                       DL-Power,
    iE-Extensions                    ProtocolExtensionContainer { { BCH-information-Cell-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

-- *****
--
-- CELL RECONFIGURATION REQUEST TDD
--
-- *****

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

CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY  reject      TYPE  C-ID                PRESENCE  mandatory }
    }|
    { ID      id-ConfigurationGenerationID  CRITICALITY  reject      TYPE  ConfigurationGenerationID  PRESENCE  }
    mandatory }|
    { ID      id-Synchronisation-Configuration-Cell-ReconfRqst  CRITICALITY  reject      TYPE  Synchronisation-Configuration-Cell-ReconfRqst  PRESENCE  optional }|
    PRESENCE optional }|
    { ID      id-SCH-Information-Cell-ReconfRqstTDD  CRITICALITY  reject      TYPE  SCH-Information-Cell-ReconfRqstTDD  PRESENCE  optional }|
    optional }|
    { ID      id-PCCPCH-Information-Cell-ReconfRqstTDD  CRITICALITY  reject      TYPE  PCCPCH-Information-Cell-ReconfRqstTDD  PRESENCE  optional }|
    optional }|
    { ID      id-MaximumTransmissionPower  CRITICALITY  reject      TYPE  MaximumTransmissionPower  PRESENCE  optional }|
    optional }|
    { ID      id-DPCHConstant  CRITICALITY  reject      TYPE  ConstantValue  PRESENCE  optional }|
    optional }|
    { ID      id-PUSCHConstant  CRITICALITY  reject      TYPE  ConstantValue  PRESENCE  optional }|
    optional }|
    { ID      id-PRACHConstant  CRITICALITY  reject      TYPE  ConstantValue  PRESENCE  optional }|
    optional }|
    { ID      id-TimeSlotConfigurationList-Cell-ReconfRqstTDD  CRITICALITY  reject      TYPE  TimeSlotConfigurationList-Cell-ReconfRqstTDD  PRESENCE  mandatory }
    PRESENCE mandatory },
    ...
}

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

SCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID  CommonPhysicalChannelID,
    sCH-Power                DL-Power,
    iE-Extensions            ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRqstTDD-ExtIEs} }  OPTIONAL,
    ...
}

```



```

PSCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCCPCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    pCCPCH-Power                     DL-Power,
    iE-Extensions                    ProtocolExtensionContainer { { PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TimeSlotConfigurationList-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-ReconfRqstTDD

TimeSlotConfigurationItem-Cell-ReconfRqstTDD ::= SEQUENCE {
    timeSlot                         TimeSlot,
    timeSlotStatus                   TimeSlotStatus,
    timeSlotDirection                 TimeSlotDirection,
    iE-Extensions                    ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

-- *****
--
-- CELL RECONFIGURATION RESPONSE
--
-- *****

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

CellReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics      CRITICALITY      ignore          TYPE      CriticalityDiagnostics      PRESENCE optional},
    ...
}

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

```

```

-- *****
--
-- CELL RECONFIGURATION FAILURE
--
-- *****

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

CellReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-Cause          CRITICALITY  ignore          TYPE      Cause          PRESENCE  mandatory }|
    { ID      id-CriticalityDiagnostics  CRITICALITY  ignore          TYPE      CriticalityDiagnostics  PRESENCE  optional },
    ...
}

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

-- *****
--
-- CELL DELETION REQUEST
--
-- *****

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

CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID          CRITICALITY  reject          TYPE      C-ID          PRESENCE  mandatory},
    ...
}

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

-- *****
--
-- CELL DELETION RESPONSE
--
-- *****

CellDeletionResponse ::= SEQUENCE {

```

```

    protocolIEs          ProtocolIE-Container    {{CellDeletionResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CellDeletionResponse-Extensions}}  OPTIONAL,
    ...
}

CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-CriticalityDiagnostics    CRITICALITY    ignore          TYPE    CriticalityDiagnostics    PRESENCE optional},
  ...
}

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

-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

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

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-IndicationType-ResourceStatusInd    CRITICALITY    ignore          TYPE    IndicationType-ResourceStatusInd    PRESENCE mandatory
  }|
  { ID    id-Cause                                CRITICALITY    ignore          TYPE    Cause                                PRESENCE    optional },
  ...
}

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

IndicationType-ResourceStatusInd ::= CHOICE {
  no-Failure                No-Failure-ResourceStatusInd,
  serviceImpacting          ServiceImpacting-ResourceStatusInd,
  cellControl               NULL,
  ...
}

No-Failure-ResourceStatusInd ::= ProtocolIE-Container {{ No-FailureIE-ResourceStatusInd }}

No-FailureIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-No-FailureItem-ResourceStatusInd    CRITICALITY ignore    TYPE No-FailureItem-ResourceStatusInd    PRESENCE mandatory },
  ...
}

```

```

No-FailureItem-ResourceStatusInd ::= SEQUENCE {
    nodeB-Information-ResourceStatusInd    NodeB-Information-ResourceStatusInd,
    local-Cell-InformationList             Local-Cell-InformationList-ResourceStatusInd,
    iE-Extensions                          ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NodeB-Information-ResourceStatusInd ::= SEQUENCE {
    dl-or-global-capacityCredit           DL-or-Global-CapacityCredit,
    ul-capacityCredit                     UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                          ProtocolExtensionContainer { { NodeB-Information-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

NodeB-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }}

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-InformationItem-ResourceStatusInd    PRESENCE mandatory
},
    ...
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    local-CellID                          Local-Cell-ID,
    addorDeleteIndicator                   AddorDeleteIndicator,
    dl-or-global-capacityCredit             DL-or-Global-CapacityCredit    OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
    ul-capacityCredit                       UL-CapacityCredit             OPTIONAL,
    commonChannelsCapacityConsumptionLaw   CommonChannelsCapacityConsumptionLaw    OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw    OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
    maximumDL-PowerCapability               MaximumDL-PowerCapability,
    iE-Extensions                          ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

ServiceImpacting-ResourceStatusInd ::= ProtocolIE-Container {{ ServiceImpactingIE-ResourceStatusInd }}

ServiceImpactingIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-ServiceImpactingItem-ResourceStatusInd  CRITICALITY ignore TYPE ServiceImpactingItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

ServiceImpactingItem-ResourceStatusInd ::= SEQUENCE {
  nodeB-Information-Service          NodeB-Information-Service-ResourceStatusInd  OPTIONAL,
  local-Cell-InformationList         Local-Cell-InformationList2-ResourceStatusInd  OPTIONAL,
  cCP-InformationList                CCP-InformationList-ResourceStatusInd  OPTIONAL,
  cell-InformationList               Cell-InformationList-ResourceStatusInd  OPTIONAL,
  primary-SCH-Information             P-SCH-Information-ResourceStatusInd  OPTIONAL,
  secondary-SCH-Information           S-SCH-Information-ResourceStatusInd  OPTIONAL,
  primary-CPICH-Information           P-CPICH-Information-ResourceStatusInd  OPTIONAL,
  secondary-CPICH-Information         S-CPICH-InformationList-ResourceStatusInd  OPTIONAL,
  primary-CCPCH-Information           P-CCPCH-Information-ResourceStatusInd  OPTIONAL,
  bCH-Information                    BCH-Information-ResourceStatusInd  OPTIONAL,
  secondary-CCPCH-InformationList     S-CCPCH-InformationList-ResourceStatusInd  OPTIONAL,
  pCH-Information                    PCH-Information-ResourceStatusInd  OPTIONAL,
  pICH-Information                   PICH-Information-ResourceStatusInd  OPTIONAL,
  fACH-InformationList                FACH-InformationList-ResourceStatusInd  OPTIONAL,
  pRACH-InformationList               PRACH-InformationList-ResourceStatusInd  OPTIONAL,
  rACH-InformationList                RACH-InformationList-ResourceStatusInd  OPTIONAL,
  aICH-InformationList                AICH-InformationList-ResourceStatusInd  OPTIONAL,
  pCPCH-InformationList               PCPCH-InformationList-ResourceStatusInd  OPTIONAL,
  cPCH-InformationList                CPCH-InformationList-ResourceStatusInd  OPTIONAL,
  aP-AICH-InformationList             AP-AICH-InformationList-ResourceStatusInd  OPTIONAL,
  cDCA-ICH-InformationList            CDCA-ICH-InformationList-ResourceStatusInd  OPTIONAL,
  sCH-Information                    SCH-Information-ResourceStatusInd  OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

NodeB-Information-Service-ResourceStatusInd ::= SEQUENCE {
  dl-or-global-capacityCredit        DL-or-Global-CapacityCredit  OPTIONAL,
  ul-capacityCredit                  UL-CapacityCredit  OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { { NodeB-Information-Service-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

NodeB-Information-Service-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-InformationItem2-ResourceStatusInd  CRITICALITY ignore  TYPE Local-Cell-InformationItem2-ResourceStatusInd  PRESENCE mandatory
},
  ...
}

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  local-Cell-ID                               Local-Cell-ID,
  dl-or-global-capacityCredit                 DL-or-Global-CapacityCredit  OPTIONAL,
  ul-capacityCredit                           UL-CapacityCredit           OPTIONAL,
  maximum-DL-PowerCapability                  MaximumDL-PowerCapability    OPTIONAL,
  iE-Extensions                               ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE CCP-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
  communicationControlPortID                 CommunicationControlPortID,
  resourceOperationalState                   ResourceOperationalState,
  availabilityStatus                          AvailabilityStatus,
  iE-Extensions                               ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Container {{ Cell-InformationItemIE-ResourceStatusInd }}

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE Cell-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

```

```

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    c-ID                               C-ID,
    resourceOperationalState           ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,      --to do: FFS
    maximumDL-PowerCapability           MaximumDL-PowerCapability, --to do: FFS
    minSpreadingFactor                  MinSpreadingFactor,
    iE-Extensions                       ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

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

P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-SCH-InformationIE-ResourceStatusInd }}

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-SCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE P-SCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

P-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID            CommonPhysicalChannelID,
    resourceOperationalState           ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,
    iE-Extensions                       ProtocolExtensionContainer { { P-SCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

P-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ S-SCH-InformationIE-ResourceStatusInd }}

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-SCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE S-SCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

S-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID            CommonPhysicalChannelID,
    resourceOperationalState           ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,
    iE-Extensions                       ProtocolExtensionContainer { { S-SCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

S-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE P-CPICH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

P-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { P-CPICH-InformationItem-ResourceStatInd-ExtIEs } }  OPTIONAL,
  ...
}

P-CPICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-ResourceStatusInd }}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE S-CPICH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

S-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { S-CPICH-InformationItem-ResourceStatusInd-ExtIEs } }  OPTIONAL,
  ...
}

S-CPICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE P-CCPCH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

P-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,

```



```

    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ BCH-InformationIE-ResourceStatusInd }}

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE BCH-InformationItem-ResourceStatusInd PRESENCE mandatory },
    ...
}

BCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { BCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

BCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}

S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE S-CCPCH-InformationItem-ResourceStatusInd PRESENCE mandatory },
    ...
}

S-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PCH-InformationIE-ResourceStatusInd }}

```

```

PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE PCH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

PCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer { { PCH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

PCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PICH-InformationIE-ResourceStatusInd }}

PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE PICH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

PICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer { { PICH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

PICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-ResourceStatusInd }}

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE FACH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

FACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer { { FACH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

```

```

}

FACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}

PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE PRACH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

PRACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID                CommonPhysicalChannelID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer { { PRACH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

PRACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-ResourceStatusInd }}

RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE RACH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

RACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID                CommonTransportChannelID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer { { RACH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

RACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-ResourceStatusInd }}

AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE AICH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

```

```

AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { AICH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }}

PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PCPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE PCPCH-InformationItem-ResourceStatusInd    PRESENCE optional },
    ...
}

PCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { PCPCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

PCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-ResourceStatusInd }}

CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE CPCH-InformationItem-ResourceStatusInd    PRESENCE optional },
    ...
}

CPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { CPCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

CPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd
}}

AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE AP-AICH-InformationItem-ResourceStatusInd  PRESENCE optional },
  ...
}

AP-AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { AP-AICH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

AP-AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CDCA-ICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd
}}

CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE CDCA-ICH-InformationItem-ResourceStatusInd  PRESENCE optional },
  ...
}

CDCA-ICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ SCH-InformationIE-ResourceStatusInd }}

SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE SCH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
}

```

```

    availabilityStatus      AvailabilityStatus,
    iE-Extensions           ProtocolExtensionContainer { { SCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- SYSTEM INFORMATION UPDATE REQUEST
--
-- *****

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

SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY reject      TYPE      C-ID                PRESENCE mandatory }|
    { ID      id-BCCH-ModificationTime CRITICALITY reject      TYPE      BCCH-ModificationTime    PRESENCE optional }|
    { ID      id-MIB-SIB-InformationList-SystemInfoUpdateRqst CRITICALITY reject      TYPE      MIB-SIB-InformationList-SystemInfoUpdateRqst
    PRESENCE mandatory },
    ...
}

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

MIB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SIB-InformationItem-SystemInfoUpdateRqst

MIB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
    iB-Type              IB-Type,
    deletionIndicator    DeletionIndicator-SystemInfoUpdate,
    iE-Extensions        ProtocolExtensionContainer { { MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs } }    OPTIONAL,
    ...
}

MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DeletionIndicator-SystemInfoUpdate ::= CHOICE {
    no-Deletion          No-Deletion-SystemInfoUpdate,
    yes-Deletion         NULL,
}

```

```

}
...
}
No-Deletion-SystemInfoUpdate ::= ProtocolIE-Container {{ No-DeletionIE-SystemInfoUpdate }}

No-DeletionIE-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
  { ID id-No-DeletionItem-SystemInfoUpdate  CRITICALITY reject  TYPE No-DeletionItem-SystemInfoUpdate  PRESENCE mandatory },
  ...
}

No-DeletionItem-SystemInfoUpdate ::= SEQUENCE {
  sIB-Originator          SIB-Originator          OPTIONAL,
  -- This IE shall be present if the IB-Type is not equal to "MIB"
  iB-SG-REP               IB-SG-REP               OPTIONAL,
  segmentInformationList  SegmentInformationList-SystemInfoUpdate,
  iE-Extensions           ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs} }  OPTIONAL,
  ...
}

No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}

SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
  { ID id-SegmentInformationListIE-SystemInfoUpdate  CRITICALITY reject  TYPE SegmentInformationListIE-SystemInfoUpdate  PRESENCE mandatory },
  ...
}

SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
  iB-SG-POS               IB-SG-POS               OPTIONAL,
  iB-SG-DATA              IB-SG-DATA              OPTIONAL,
  -- This IE shall be present if the SIB Originator IE is set to "CRNC"
  iE-Extensions           ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs} } OPTIONAL,
  ...
}

SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- SYSTEM INFORMATION UPDATE RESPONSE
--
-- *****

```

```

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

SystemInformationUpdateResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics          CRITICALITY    ignore          TYPE      CriticalityDiagnostics    PRESENCE optional},
    ...
}

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

-- *****
--
-- SYSTEM INFORMATION UPDATE FAILURE
--
-- *****

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

SystemInformationUpdateFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-Cause                          CRITICALITY    ignore          TYPE      Cause                          PRESENCE mandatory }|
    { ID      id-CriticalityDiagnostics          CRITICALITY    ignore          TYPE      CriticalityDiagnostics          PRESENCE optional },
    ...
}

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

-- *****
--
-- RADIO LINK SETUP REQUEST FDD
--
-- *****

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

RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {

```



```

    { ID id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE CRNC-CommunicationContextID          PRESENCE
      mandatory }|
    { ID id-UL-DPCH-Information-RL-SetupRqstFDD   CRITICALITY reject          TYPE UL-DPCH-Information-RL-SetupRqstFDD  PRESENCE
      mandatory }|
    { ID id-DL-DPCH-Information-RL-SetupRqstFDD   CRITICALITY reject          TYPE DL-DPCH-Information-RL-SetupRqstFDD  PRESENCE
      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,

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    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,

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    minimumDL-power                DL-Power,
    sSDT-Cell-Identity              SSĐT-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,
    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 ::= {
    ...
}

-- *****
--
-- 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-TFCI2-BearerInformationResponse-RL-SetupRspFDD    CRITICALITY ignore          TYPE TFCI2-BearerInformationResponse-RL-SetupRspFDD
      PRESENCE optional }|
  }

  { 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,
  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 ::= {
    ...
}

TFCI2-BearerInformationResponse-RL-SetupRspFDD ::= SEQUENCE {
    bindingID                BindingID,
    transportLayerAddress     TransportLayerAddress
}

-- *****
--
-- 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,
    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                CRITICALITY ignore          TYPE CriticalityDiagnostics
      PRESENCE optional },
    ...
}

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

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

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

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

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      CRITICALITY      ignore      TYPE      RLSpecificCauseItem-RL-SetupFailureFDD
    PRESENCE      mandatory  },
  ...
}

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      CRITICALITY      ignore      TYPE      Unsuccessful-RL-InformationRespItem-RL-
SetupFailureFDD      PRESENCE      mandatory},
  ...
}

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,
    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,
    tFCI2-BearerInformationResponse TFCI2-BearerInformationResponse-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 ::= {
...
}
}
TFCI2-BearerInformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
    bindingID                BindingID,
    transportLayerAddress    TransportLayerAddress
}

```

```

-- *****
--

```

```

-- RADIO LINK SETUP FAILURE TDD
--
-- *****

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

RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE CRNC-CommunicationContextID
    PRESENCE mandatory }|
    { ID id-CauseLevel-RL-SetupFailureTDD          CRITICALITY ignore          TYPE CauseLevel-RL-SetupFailureTDD
    PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics          CRITICALITY ignore          TYPE CriticalityDiagnostics
    PRESENCE optional },
    ...
}

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

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

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

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

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

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

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

RLSpecificCauseIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-RLSpecificCauseItem-RL-SetupFailureTDD      CRITICALITY ignore  TYPE RLSpecificCauseItem-RL-SetupFailureTDD      PRESENCE mandatory  },
    ...
}

RLSpecificCauseItem-RL-SetupFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD  Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,
    iE-Extensions                                           ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs} }  OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Container { {Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD} }

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD      CRITICALITY ignore      TYPE      Unsuccessful-RL-InformationResp-RL-
SetupFailureTDD      PRESENCE      mandatory  },
    ...
}

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

Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION REQUEST FDD
--
-- *****

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

RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID      CRITICALITY reject      TYPE      NodeB-CommunicationContextID      PRESENCE
mandatory  } |
    { ID      id-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 ::= {
...
}

```

```

}
-- *****
--
-- 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,
  midambleShift         MidambleShift,
  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,
  midambleShift         MidambleShift,
  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 ::= {
...
}

```

```

-- *****
--
-- 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,
    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-InformationResponseList        DSCH-InformationResponseList-RL-AdditionRspTDD  OPTIONAL,
  uSCH-InformationResponseList        USCH-InformationResponseList-RL-AdditionRspTDD  OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } }  OPTIONAL,
  ...
}

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

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

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
  timeSlot                             TimeSlot,
  ul-InterferenceLevel                 UL-InterferenceLevel,
  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-InfomationResponseList         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,
  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 ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION FAILURE TDD
--
-- *****

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

RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore TYPE CRNC-CommunicationContextID
    PRESENCE mandatory }|
    { ID id-CauseLevel-RL-AdditionFailureTDD      CRITICALITY ignore TYPE CauseLevel-RL-AdditionFailureTDD          PRESENCE
    mandatory }|
    { ID id-CriticalityDiagnostics                CRITICALITY ignore TYPE CriticalityDiagnostics          PRESENCE
    optional },
    ...
}

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

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

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

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

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

GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```



```

    ...
}

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

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

RLSpecificCauseItem-RL-AdditionFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD  Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
    iE-Extensions                                               ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs } }
    OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Container { {Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD} }

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD  CRITICALITY ignore  TYPE Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD
    PRESENCE mandatory },
    ...
}

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

Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

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

```

```

...
}

RadioLinkReconfigurationPrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE
  mandatory } |
  { ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE
  optional } |
  { ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD PRESENCE
  optional } |
  { ID id-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-TFCHI2-BearerSpecificInformation-RL-ReconfPrepFDD CRITICALITY reject TYPE TFCHI2-BearerSpecificInformation-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,
    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 ::= {
  ...
}

```

```

TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD ::= CHOICE {
addOrModify          AddOrModify-TFCI2-RL-ReconfPrepFDD,
delete                Nulltype,
  ...
}

```

```

AddOrModify-TFCI2-RL-ReconfPrepFDD ::= SEQUENCE {
  toAWS                ToAWS,
  toAWE                ToAWE
}

```

```

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,
    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 ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION READY
--
-- *****

```

```

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

RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY   ignore          TYPE   CRNC-CommunicationContextID          PRESENCE
      mandatory } |
    { ID      id-RL-InformationResponseList-RL-ReconfReady CRITICALITY   ignore          TYPE   RL-InformationResponseList-RL-ReconfReady PRESENCE
      optional } |
    { ID      id-CriticalityDiagnostics              CRITICALITY   ignore          TYPE   CriticalityDiagnostics              PRESENCE
      optional },
    ...
}

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

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

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

RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
    rL-ID          RL-ID,
    dCH-InformationResponseList-RL-ReconfReady DCH-InformationResponseList-RL-ReconfReady OPTIONAL,
    dSCH-InformationResponseList-RL-ReconfReady DSCH-InformationResponseList-RL-ReconfReady OPTIONAL,
    uSCH-InformationResponseList-RL-ReconfReady USCH-InformationResponseList-RL-ReconfReady OPTIONAL,
    tFCI2-BearerInformationResponse TFCI2-TFCI2-BearerInformationResponse-RL-ReconfReady OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

```

```

DCH-InformationResponseListIE-RL-ReconfReady ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReady

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

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

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

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

DSCH-InformationResponseListIE-RL-ReconfReady ::= SEQUENCE (SIZE (0..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-ReconfReady

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

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

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

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

USCH-InformationResponseListIE-RL-ReconfReady ::= SEQUENCE (SIZE (0..maxNrOfUSCHs)) OF USCH-InformationResponseItem-RL-ReconfReady

USCH-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,

```

```

    iE-Extensions          ProtocolExtensionContainer { { USCH-InformationResponseItem-RL-ReconfReady-ExtIEs } } OPTIONAL,
    ...
}

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

TFCI2-BearerInformationResponse-RL-ReconfReady ::= SEQUENCE {
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress
}

-- *****
--
-- RADIO LINK RECONFIGURATION FAILURE
--
-- *****

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

RadioLinkReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore TYPE CRNC-CommunicationContextID
    PRESENCE mandatory } |
    { ID id-CauseLevel-RL-ReconfFailure CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE
    optional },
    ...
}

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

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

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

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

```

```

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

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

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

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

RLSpecificCauseItem-RL-ReconfFailure ::= SEQUENCE {
    rL-ReconfigurationFailureList-RL-ReconfFailure RL-ReconfigurationFailureList-RL-ReconfFailure OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-ReconfFailure-ExtIEs } } OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-ReconfigurationFailureItemIE-RL-ReconfFailure}}

RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationFailureItem-RL-ReconfFailure CRITICALITY ignore TYPE RL-ReconfigurationFailureItem-RL-ReconfFailure
      PRESENCE mandatory },
    ...
}

RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEQUENCE {
    rL-ID RL-ID,
    cause Cause,
    iE-Extensions ProtocolExtensionContainer { { RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs } } OPTIONAL,
    ...
}

RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****

```

```

--
-- RADIO LINK RECONFIGURATION COMMIT
--
-- *****

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

RadioLinkReconfigurationCommit-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-NodeB-CommunicationContextID    CRITICALITY    ignore    TYPE    NodeB-CommunicationContextID    PRESENCE mandatory    } |
    { ID    id-CFN                             CRITICALITY    ignore    TYPE    CFN                             PRESENCE mandatory    } |
    { ID    id-Active-Pattern-Sequence-Information    CRITICALITY    ignore    TYPE    Active-Pattern-Sequence-Information    PRESENCE optional    },
    ...
}

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

-- *****
--
-- RADIO LINK RECONFIGURATION CANCEL
--
-- *****

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

RadioLinkReconfigurationCancel-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-NodeB-CommunicationContextID    CRITICALITY    ignore    TYPE    NodeB-CommunicationContextID    PRESENCE mandatory    },
    ...
}

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

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST FDD
--
-- *****

RadioLinkReconfigurationRequestFDD ::= SEQUENCE {

```

```

    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationRequestFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}  OPTIONAL,
    ...
}

RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID          CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory
  } |
  { ID id-UL-DPCH-Information-RL-ReconfRqstFDD  CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD PRESENCE
  optional } |
  { ID id-DL-DPCH-Information-RL-ReconfRqstFDD  CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE
  optional } |
  { ID id-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 TFCS-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,
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,
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,
  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,
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
    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 {
    cCCTrCH-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,
    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,
  cTrCH-ID                     CTrCH-ID,
  transportFormatSet           TransportFormatSet,
  frameHandlingPriority        FrameHandlingPriority,
  toAWS                        ToAWS,
  toAWE                        ToAWE,
  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,
  cTrCH-ID                     CTrCH-ID,
  transportFormatSet           TransportFormatSet,
  frameHandlingPriority        FrameHandlingPriority,
  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,
  transportFormatSet                     TransportFormatSet,
  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 ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION RESPONSE
--
-- *****

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

RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY ignore      TYPE      CRNC-CommunicationContextID          PRESENCE
      mandatory } |
    { ID      id-RL-InformationResponseList-RL-ReconfRsp  CRITICALITY ignore      TYPE      RL-InformationResponseList-RL-ReconfRsp          PRESENCE
      optional } |
    { ID      id-CriticalityDiagnostics                CRITICALITY ignore      TYPE      CriticalityDiagnostics                PRESENCE optional
    },
    ...
}

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

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

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

```

```

RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
    rL-ID                               RL-ID,
    dCH-InformationResponseList-RL-ReconfRsp  DCH-InformationResponseList-RL-ReconfRsp  OPTIONAL,
    dSCH-InformationResponseList-RL-ReconfRsp  DSCH-InformationResponseList-RL-ReconfRsp  OPTIONAL,
    uSCH-InformationResponseList-RL-ReconfRsp  USCH-InformationResponseList-RL-ReconfRsp  OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs } }  OPTIONAL,
    ...
}

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

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

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

DCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfRsp

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

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

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

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

```

~~DSCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-ReconfRsp~~

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

~~DSCH-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 \_\_\_\_\_ ...  
 }~~

~~USCH-InformationResponseList-RL-ReconfRsp ::= ProtocolIE-Container { { USCH-InformationResponseListIEs-RL-ReconfRsp } }~~

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

~~USCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfUSCHs)) OF USCH-InformationResponseItem-RL-ReconfRsp~~

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

~~USCH-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 \_\_\_\_\_ ...  
 }~~

```

-- *****
--
-- RADIO LINK DELETION REQUEST
--
-- *****

```

```

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

```

```

RadioLinkDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-NodeB-CommunicationContextID          CRITICALITY   reject          TYPE NodeB-CommunicationContextID          PRESENCE
    mandatory } |
  { ID      id-RL-informationList-RL-DeletionRqst    CRITICALITY   notify          TYPE RL-informationList-RL-DeletionRqst    PRESENCE
    mandatory } ,
  ...
}

```

```

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

```

```

RL-informationList-RL-DeletionRqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{RL-informationItemIE-RL-DeletionRqst}}

```

```

RL-informationItemIE-RL-DeletionRqst NBAP-PROTOCOL-IES ::= {
  { ID      id-RL-informationItem-RL-DeletionRqst    CRITICALITY   notify          TYPE RL-informationItem-RL-DeletionRqst    PRESENCE
    mandatory},
  ...
}

```

```

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

```

```

RL-informationItem-RL-DeletionRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- RADIO LINK DELETION RESPONSE
--
-- *****

```

```

RadioLinkDeletionResponse ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkDeletionResponse-IEs}},

```

```

    protocolExtensions      ProtocolExtensionContainer  {{RadioLinkDeletionResponse-Extensions}}  OPTIONAL,
    ...
}

RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID      CRITICALITY ignore      TYPE      CRNC-CommunicationContextID      PRESENCE mandatory
  } |
  { ID id-CriticalityDiagnostics          CRITICALITY ignore      TYPE      CriticalityDiagnostics          PRESENCE optional },
  ...
}

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

-- *****
--
-- DL POWER CONTROL REQUEST FDD
--
-- *****

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

DL-PowerControlRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID      CRITICALITY ignore      TYPE      NodeB-CommunicationContextID      PRESENCE mandatory  } |
  { ID id-PowerAdjustmentType              CRITICALITY ignore      TYPE      PowerAdjustmentType              PRESENCE mandatory } |
  { ID id-DLReferencePower                  CRITICALITY ignore      TYPE      DL-Power                          PRESENCE conditional } |
  -- This IE is present only 'Adjustment Type' equals to 'Common'
  { ID id-DLReferencePowerList-DL-PC-Rqst   CRITICALITY ignore      TYPE      DL-ReferencePowerInformationList-DL-PC-Rqst  PRESENCE conditional } |
  -- This IE is present only 'Adjustment Type' equals to 'Individual'
  { ID id-MaxAdjustmentStep                 CRITICALITY ignore      TYPE      MaxAdjustmentStep                 PRESENCE conditional } |
  -- This IE is present only 'Adjustment Type' equals to 'Common' or 'Individual'
  { ID id-AdjustmentPeriod                  CRITICALITY ignore      TYPE      AdjustmentPeriod                  PRESENCE conditional } |
  -- This IE is present only 'Adjustment Type' equals to 'Common' or 'Individual'
  { ID id-AdjustmentRatio                   CRITICALITY ignore      TYPE      ScaledAdjustmentRatio             PRESENCE conditional },
  -- This IE is present only 'Adjustment Type' equals to 'Common' or 'Individual'
  ...
}

DL-PowerControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-ReferencePowerInformationList-DL-PC-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{DL-ReferencePowerInformationItemIE-DL-PC-Rqst
}}
```

```

DL-ReferencePowerInformationItemIE-DL-PC-Rqst NBAP-PROTOCOL-IES ::= {
  { ID id-DL-ReferencePowerInformationItem-DL-PC-Rqst      CRITICALITY   ignore   TYPE   DL-ReferencePowerInformationItem-DL-PC-Rqst   PRESENCE
    mandatory
  },
  ...
}

DL-ReferencePowerInformationItem-DL-PC-Rqst ::= SEQUENCE {
  rL-ID                RL-ID,
  dl-ReferencePower    DL-Power,
  iE-Extensions        ProtocolExtensionContainer { { DL-ReferencePowerInformationItem-DL-PC-Rqst-ExtIEs } }  OPTIONAL,
  ...
}

DL-ReferencePowerInformationItem-DL-PC-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- DEDICATED MEASUREMENT INITIATION REQUEST
--
-- *****

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

DedicatedMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID      CRITICALITY   reject   TYPE   NodeB-CommunicationContextID      PRESENCE mandatory
  } |
  { ID id-MeasurementID                     CRITICALITY   reject   TYPE   MeasurementID                     PRESENCE mandatory
  } |
  { ID id-DedicatedMeasurementObjectType-DM-Rqst  CRITICALITY   ignore   TYPE   DedicatedMeasurementObjectType-DM-Rqst  PRESENCE
    mandatory } |
  { ID id-DedicatedMeasurementType           CRITICALITY   reject   TYPE   DedicatedMeasurementType           PRESENCE mandatory
  } |
  { ID id-MeasurementFilterCoefficient        CRITICALITY   reject   TYPE   MeasurementFilterCoefficient        PRESENCE
    optional } |
  { ID id-ReportCharacteristics              CRITICALITY   reject   TYPE   ReportCharacteristics              PRESENCE mandatory
  } ,
  ...
}

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

```

```

DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
    rL                               RL-DM-Rqst,
    rLS                              RL-Set-DM-Rqst,
    all-RL                           AllRL-DM-Rqst,
    all-RLS                           AllRL-Set-DM-Rqst,
    ...
}

RL-DM-Rqst ::= ProtocolIE-Container {{ RLIE-DM-Rqst }}

RLIE-DM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rqst    CRITICALITY reject TYPE RLItem-DM-Rqst    PRESENCE mandatory },
    ...
}

RLItem-DM-Rqst ::= SEQUENCE {
    rL-InformationList              RL-InformationList-DM-Rqst,
    iE-Extensions                   ProtocolExtensionContainer { { RLItem-DM-Rqst-ExtIEs } }    OPTIONAL,
    ...
}

RLItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

RL-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-ID                           RL-ID,
    dPCH-ID                          DPCH-ID                OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { RL-InformationItem-DM-Rqst-ExtIEs } }    OPTIONAL,
    ...
}

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

RL-Set-DM-Rqst ::= ProtocolIE-Container {{ RL-SetIE-DM-Rqst }}

RL-SetIE-DM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-DM-Rqst    CRITICALITY reject TYPE RL-SetItem-DM-Rqst    PRESENCE mandatory },
    ...
}

```



```

RL-SetItem-DM-Rqst ::= SEQUENCE {
    rL-Set-InformationList-DM-Rqst      RL-Set-InformationList-DM-Rqst,
    iE-Extensions                       ProtocolExtensionContainer { { RL-SetItem-DM-Rqst-ExtIEs } } OPTIONAL,
    ...
}

RL-SetItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-DM-Rqst ::= SEQUENCE (SIZE(1..maxNrOfRLSets)) OF RL-Set-InformationItem-DM-Rqst

RL-Set-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-Set-ID                           RL-Set-ID,
    iE-Extensions                       ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rqst-ExtIEs } } OPTIONAL,
    ...
}

RL-Set-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllRL-DM-Rqst ::= ProtocolIE-Container {{ AllRLIE-DM-Rqst }}

AllRLIE-DM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-AllRLItem-DM-Rqst    CRITICALITY ignore    TYPE AllRLItem-DM-Rqst    PRESENCE mandatory },
    ...
}

AllRLItem-DM-Rqst ::= NULL

AllRL-Set-DM-Rqst ::= ProtocolIE-Container {{ AllRLIE-Set-DM-Rqst }}

AllRLIE-Set-DM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-AllRLItem-Set-DM-Rqst    CRITICALITY ignore    TYPE AllRLItem-Set-DM-Rqst    PRESENCE mandatory },
    ...
}

AllRLItem-Set-DM-Rqst ::= NULL

-- *****
--
-- DEDICATED MEASUREMENT INITIATION RESPONSE
--
-- *****

DedicatedMeasurementInitiationResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{DedicatedMeasurementInitiationResponse-IEs}},

```

```

    protocolExtensions      ProtocolExtensionContainer  {{DedicatedMeasurementInitiationResponse-Extensions}}  OPTIONAL,
    ...
}

DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-CRNC-CommunicationContextID          CRITICALITY  ignore      TYPE  CRNC-CommunicationContextID          PRESENCE
    mandatory } |
  { ID      id-MeasurementID                        CRITICALITY  ignore      TYPE  MeasurementID                          PRESENCE mandatory
    } |
  { ID      id-DedicatedMeasurementObjectType-DM-Rsp  CRITICALITY  ignore      TYPE  DedicatedMeasurementObjectType-DM-Rsp  PRESENCE
    mandatory } |
  { ID      id-CFN                                  CRITICALITY  ignore      TYPE  CFN                                      PRESENCE optional } |
  { ID      id-CriticalityDiagnostics                CRITICALITY  ignore      TYPE  CriticalityDiagnostics                  PRESENCE optional
    },
  ...
}

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

DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
  rL                RL-DM-Rsp,
  rLS               RL-Set-DM-Rsp,
  all-RL            RL-DM-Rsp,
  all-RLS           RL-Set-DM-Rsp,
  ...
}

RL-DM-Rsp ::= ProtocolIE-Container {{ RLIE-DM-Rsp }}

RLIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-RLItem-DM-Rsp  CRITICALITY ignore  TYPE RLItem-DM-Rsp  PRESENCE mandatory },
  ...
}

RLItem-DM-Rsp ::= SEQUENCE {
  rL-InformationList-DM-Rsp      RL-InformationList-DM-Rsp,
  iE-Extensions                  ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } }  OPTIONAL,
  ...
}

RLItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

RL-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-DM-Rsp  CRITICALITY ignore  TYPE RL-InformationItem-DM-Rsp  PRESENCE mandatory },

```

```

    ...
}

RL-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-ID                RL-ID,
    dPCH-ID              DPCH-ID          OPTIONAL,
    dedicatedMeasurementValue    DedicatedMeasurementValue,
    iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-DM-Rsp-ExtIEs } }    OPTIONAL,
    ...
}

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

RL-Set-DM-Rsp ::= ProtocolIE-Container {{ RL-SetIE-DM-Rsp }}

RL-SetIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-DM-Rsp    CRITICALITY ignore    TYPE RL-SetItem-DM-Rsp    PRESENCE mandatory },
    ...
}

RL-SetItem-DM-Rsp ::= SEQUENCE {
    rL-Set-InformationList-DM-Rsp    RL-Set-InformationList-DM-Rsp,
    iE-Extensions                    ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }    OPTIONAL,
    ...
}

RL-SetItem-DM-Rsp-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Container {{ RL-Set-InformationItemIE-DM-Rsp }}

RL-Set-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rsp    CRITICALITY ignore    TYPE    RL-Set-InformationItem-DM-Rsp PRESENCE mandatory},
    ...
}

RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-Set-ID                RL-Set-ID,
    dedicatedMeasurementValue    DedicatedMeasurementValue,
    iE-Extensions            ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rsp-ExtIEs } }    OPTIONAL,
    ...
}

RL-Set-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

-- *****
--
-- DEDICATED MEASUREMENT INITIATION FAILURE
--
-- *****

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

DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID    CRITICALITY    ignore    TYPE    CRNC-CommunicationContextID    PRESENCE mandatory } |
    { ID    id-MeasurementID                  CRITICALITY    ignore    TYPE    MeasurementID                  PRESENCE mandatory } |
    { ID    id-Cause                          CRITICALITY    ignore    TYPE    Cause                          PRESENCE mandatory } |
    { ID    id-CriticalityDiagnostics         CRITICALITY    ignore    TYPE    CriticalityDiagnostics           PRESENCE optional },
    ...
}

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

-- *****
--
-- DEDICATED MEASUREMENT REPORT
--
-- *****

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

DedicatedMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID    CRITICALITY    ignore    TYPE    CRNC-CommunicationContextID    PRESENCE
    mandatory } |
    { ID    id-MeasurementID                  CRITICALITY    ignore    TYPE    MeasurementID                  PRESENCE mandatory
    } |
    { ID    id-DedicatedMeasurementObjectType-DM-Rprt    CRITICALITY    ignore    TYPE    DedicatedMeasurementObjectType-DM-Rprt    PRESENCE
    mandatory } |
    { ID    id-CFN                                CRITICALITY    ignore    TYPE    CFN                                PRESENCE optional
    },
    ...
}

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

```

```

}

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
    rL                RL-DM-Rprt,
    rLS              RL-Set-DM-Rprt,
    all-RL           RL-DM-Rprt,
    all-RLS          RL-Set-DM-Rprt,
    ...
}

RL-DM-Rprt ::= ProtocolIE-Container {{ RLIE-DM-Rprt }}

RLIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rprt  CRITICALITY ignore      TYPE RLItem-DM-Rprt      PRESENCE mandatory },
    ...
}

RLItem-DM-Rprt ::= SEQUENCE {
    rL-InformationList-DM-Rprt      RL-InformationList-DM-Rprt,
    iE-Extensions                   ProtocolExtensionContainer { { RLItem-DM-Rprt-ExtIEs } } OPTIONAL,
    ...
}

RLItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

RL-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rprt  CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt      PRESENCE mandatory },
    ...
}

RL-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-ID                RL-ID,
    dPCH-ID              DPCH-ID OPTIONAL,
    measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
    iE-Extensions       ProtocolExtensionContainer { { RL-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
    ...
}

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

RL-Set-DM-Rprt ::= ProtocolIE-Container {{ RL-SetIE-DM-Rprt }}

RL-SetIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-DM-Rprt  CRITICALITY ignore      TYPE RL-SetItem-DM-Rprt      PRESENCE mandatory },
    ...
}

```

```

}

RL-SetItem-DM-Rprt ::= SEQUENCE {
    rL-Set-InformationList-DM-Rprt      RL-Set-InformationList-DM-Rprt,
    iE-Extensions                       ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } } OPTIONAL,
    ...
}

RL-SetItem-DM-Rprt-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Container {{ RL-Set-InformationItemIE-DM-Rprt }}

RL-Set-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt PRESENCE mandatory },
    ...
}

RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-Set-ID                          RL-Set-ID,
    measurementAvailabilityIndicator     MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
    iE-Extensions                       ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
    ...
}

RL-Set-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MeasurementAvailabilityIndicator-DedicatedMeasurementReport ::= CHOICE {
    measurementAvailable                MeasurementAvailable-DedicatedMeasurementReport,
    measurementnotAvailable             MeasurementnotAvailable-DedicatedMeasurementReport,
    ...
}

MeasurementAvailable-DedicatedMeasurementReport ::= ProtocolIE-Container {{ MeasurementAvailableIE-DedicatedMeasurementReport }}

MeasurementAvailableIE-DedicatedMeasurementReport NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-DedicatedMeasurementReport PRESENCE mandatory },
    ...
}

MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE {
    dedicatedmeasurementValue           DedicatedMeasurementValue,
    ie-Extensions                       ProtocolExtensionContainer { { MeasurementAvailableItem-DedicatedMeasurementReport-ExtIEs } } OPTIONAL,
    ...
}

```

```

MeasurementAvailableItem-DedicatedMeasurementReport-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MeasurementnotAvailable-DedicatedMeasurementReport ::= ProtocolIE-Container {{ MeasurementnotAvailableIE-DedicatedMeasurementReport }}

MeasurementnotAvailableIE-DedicatedMeasurementReport NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementnotAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-DedicatedMeasurementReport
    PRESENCE mandatory},
    ...
}

MeasurementnotAvailableItem-DedicatedMeasurementReport ::= NULL

-- *****
--
-- DEDICATED MEASUREMENT TERMINATION REQUEST
--
-- *****

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

DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
    { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory },
    ...
}

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

-- *****
--
-- DEDICATED MEASUREMENT FAILURE INDICATION
--
-- *****

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

DedicatedMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } |

```

```

    { ID id-MeasurementID          CRITICALITY ignore    TYPE MeasurementID          PRESENCE mandatory } |
    { ID id-Cause                  CRITICALITY ignore    TYPE Cause                  PRESENCE mandatory },
    ...
}

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

-- *****
--
-- RADIO LINK FAILURE INDICATION
--
-- *****

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

RadioLinkFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore    TYPE CRNC-CommunicationContextID          PRESENCE mandatory
    } |
    { ID id-Reporting-Object-RL-FailureInd       CRITICALITY ignore    TYPE Reporting-Object-RL-FailureInd       PRESENCE mandatory
    } ,
    ...
}

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

Reporting-Object-RL-FailureInd ::= CHOICE {
    rL          RL-RL-FailureInd,
    rL-Set      RL-Set-RL-FailureInd,
    ...
}

RL-RL-FailureInd ::= ProtocolIE-Container {{ RLIE-RL-FailureInd }}

RLIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-RLItem-RL-FailureInd    CRITICALITY ignore    TYPE RLItem-RL-FailureInd    PRESENCE mandatory },
    ...
}

RLItem-RL-FailureInd ::= SEQUENCE {
    rL-InformationList-RL-FailureInd    RL-InformationList-RL-FailureInd,
    iE-Extensions                       ProtocolExtensionContainer {{ RLItem-RL-FailureInd-ExtIEs }} OPTIONAL,
    ...
}

```



```

}

RLItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

RL-InformationItem-RL-FailureInd ::= SEQUENCE {
    rL-ID RL-ID,
    cause Cause,
    iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-RL-FailureInd-ExtIEs } } OPTIONAL,
    ...
}

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

RL-Set-RL-FailureInd ::= ProtocolIE-Container {{ RL-SetIE-RL-FailureInd }}

RL-SetIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-RL-FailureInd CRITICALITY ignore TYPE RL-SetItem-RL-FailureInd PRESENCE mandatory },
    ...
}

RL-SetItem-RL-FailureInd ::= SEQUENCE {
    rL-Set-InformationList-RL-FailureInd RL-Set-InformationList-RL-FailureInd,
    iE-Extensions ProtocolExtensionContainer { { RL-SetItem-RL-FailureInd-ExtIEs } } OPTIONAL,
    ...
}

RL-SetItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Container {{ RL-Set-InformationItemIE-RL-FailureInd }}

RL-Set-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-RL-FailureInd CRITICALITY ignore TYPE RL-Set-InformationItem-RL-FailureInd PRESENCE mandatory },
    ...
}

RL-Set-InformationItem-RL-FailureInd ::= SEQUENCE {

```

```

    rL-Set-ID          RL-Set-ID,
    cause              Cause,
    iE-Extensions      ProtocolExtensionContainer { { RL-Set-InformationItem-RL-FailureInd-ExtIEs } } OPTIONAL,
    ...
}

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

-- *****
--
-- RADIO LINK RESTORE INDICATION
--
-- *****

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

RadioLinkRestoreIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE CRNC-CommunicationContextID          PRESENCE mandatory
    } |
    { ID id-Reporting-Object-RL-RestoreInd        CRITICALITY ignore          TYPE Reporting-Object-RL-RestoreInd      PRESENCE mandatory
    },
    ...
}

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

Reporting-Object-RL-RestoreInd ::= CHOICE {
    rL              RL-RL-RestoreInd,
    rL-Set          RL-Set-RL-RestoreInd,
    ...
}

RL-RL-RestoreInd ::= ProtocolIE-Container {{ RLIE-RL-RestoreInd }}

RLIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
    { ID id-RLItem-RL-RestoreInd  CRITICALITY ignore  TYPE RLItem-RL-RestoreInd  PRESENCE mandatory },
    ...
}

RLItem-RL-RestoreInd ::= SEQUENCE {
    rL-InformationList-RL-RestoreInd    RL-InformationList-RL-RestoreInd,
    iE-Extensions                        ProtocolExtensionContainer { { RLItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
}

```

```

    ...
  }

RLItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

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

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

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

RL-Set-RL-RestoreInd ::= ProtocolIE-Container {{ RL-SetIE-RL-RestoreInd }}

RL-SetIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
  { ID id-RL-SetItem-RL-RestoreInd CRITICALITY ignore TYPE RL-SetItem-RL-RestoreInd PRESENCE mandatory },
  ...
}

RL-SetItem-RL-RestoreInd ::= SEQUENCE {
  rL-Set-InformationList-RL-RestoreInd RL-Set-InformationList-RL-RestoreInd,
  iE-Extensions ProtocolExtensionContainer { { RL-SetItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
  ...
}

RL-SetItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Container {{ RL-Set-InformationItemIE-RL-RestoreInd }}

RL-Set-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-RL-RestoreInd CRITICALITY ignore TYPE RL-Set-InformationItem-RL-RestoreInd PRESENCE mandatory },
  ...
}

RL-Set-InformationItem-RL-RestoreInd ::= SEQUENCE {

```

```

    rL-Set-ID          RL-Set-ID,
    iE-Extensions      ProtocolExtensionContainer { { RL-Set-InformationItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
    ...
}

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

-- *****
--
-- COMPRESSED MODE COMMAND FDD
--
-- *****

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

CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID      CRITICALITY      ignore      TYPE      NodeB-CommunicationContextID      PRESENCE      mandatory
    } |
    { ID      id-Active-Pattern-Sequence-Information  CRITICALITY      ignore      TYPE      Active-Pattern-Sequence-Information  PRESENCE      mandatory },
    ...
}

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

-- *****
--
-- ERROR INDICATION
--
-- *****

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

```

```

ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-CRNC-CommunicationContextID      CRITICALITY  ignore          TYPE      CRNC-CommunicationContextID      PRESENCE conditional } |
  -- This IE is only present when message is transmitted by a Node B on a signalling bearer corresponding to a communication control port --
  { ID      id-NodeB-CommunicationContextID      CRITICALITY  ignore          TYPE      NodeB-CommunicationContextID      PRESENCE conditional } |
  -- This IE is only present when message is transmitted by a RNC on a signalling bearer corresponding to a communication control port --
  { ID      id-Cause                             CRITICALITY  ignore          TYPE      Cause                             PRESENCE conditional } |
  -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
  { ID      id-CriticalityDiagnostics            CRITICALITY  ignore          TYPE      CriticalityDiagnostics            PRESENCE conditional },
  -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
  ...
}

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

-- *****
--
-- PRIVATE MESSAGE
--
-- *****

PrivateMessage ::= SEQUENCE {
  privateIEs      PrivateIE-Container {{PrivateMessage-IEs}},
  ...
}

PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
  ...
}

-- *****
--
-- 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,
  midambleShift MidambleShift,
  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,
    midambleShift                  MidambleShift,
    timeSlot                       TimeSlot,
    repetitionPeriod               RepetitionPeriod,
    tdd-PhysicalChannelOffset       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,
    midambleShift                MidambleShift,
    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,
    midambleShift           MidambleShift,
    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 ::= {
    ...
}

-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE TDD
--
-- *****

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

PhysicalSharedChannelReconfigurationResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics      CRITICALITY  ignore      TYPE          CriticalityDiagnostics  PRESENCE optional },
    ...
}

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

-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE TDD
--
-- *****

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

PhysicalSharedChannelReconfigurationFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CauseLevel-PSCH-ReconfFailureTDD      CRITICALITY  ignore      TYPE          CauseLevel-PSCH-ReconfFailureTDD  PRESENCE mandatory }|
    { ID      id-CriticalityDiagnostics      CRITICALITY  ignore      TYPE          CriticalityDiagnostics  PRESENCE optional },
    ...
}

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

CauseLevel-PSCH-ReconfFailureTDD ::= CHOICE {

```

```

    generalCause          GeneralCauseList-PSCH-ReconfFailureTDD,
    setSpecificCause      SetSpecificCauseList-PSCH-ReconfFailureTDD,
    ...
}

GeneralCauseList-PSCH-ReconfFailureTDD ::= ProtocolIE-Container {{ GeneralCauseIE-PSCH-ReconfFailureTDD }}

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

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

GeneralCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SetSpecificCauseList-PSCH-ReconfFailureTDD ::= ProtocolIE-Container {{ SetSpecificCauseIE-PSCH-ReconfFailureTDD }}

SetSpecificCauseIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-SetSpecificCauseItem-PSCH-ReconfFailureTDD  CRITICALITY ignore  TYPE SetSpecificCauseItem-PSCH-ReconfFailureTDD  PRESENCE mandatory
    },
    ...
}

SetSpecificCauseItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
    unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD  Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD    OPTIONAL,
    unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD  Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD    OPTIONAL,
    iE-Extensions                                    ProtocolExtensionContainer { { SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs } }    OPTIONAL,
    ...
}

SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPDSCHSets)) OF ProtocolIE-Container {{ Unsuccessful-PDSCHSetItemIE-PSCH-
ReconfFailureTDD }}

Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD  CRITICALITY ignore  TYPE Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDDPRESENCE
    mandatory},
    ...
}

```

```

Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
    pDSCHSet-ID          PDSCHSet-ID,
    cause                Cause,
    iE-Extensions       ProtocolExtensionContainer { {Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} } OPTIONAL,
    ...
}

Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPUSCHSets)) OF ProtocolIE-Container {{ Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD }}

Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDDPRESENCE mandatory},
    ...
}

Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
    pUSCHSet-ID          PUSCHSet-ID,
    cause                Cause,
    iE-Extensions       ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} } OPTIONAL,
    ...
}

Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

END

```

### 9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC,

```

```

    maxNrOfTTFs,
    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
}

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
-- =====

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),
    ...
}

-- =====
-- 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-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-iscp                TimeSlot-ISCP-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)

-- =====
-- 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-mode1,
    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  
  
-- =====  
-- E  
-- =====  
  
-- =====  
-- F  
-- =====  
  
FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 255)  
-- 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)  
  
-- =====  
-- G  
-- =====  
  
GapLength ::= INTEGER (1..14)
```

```
GapDuration ::= INTEGER (1..144)

-- =====
-- H
-- =====

-- =====
-- I
-- =====

IB-SG-DATA ::= BIT STRING

IB-SG-POS ::= INTEGER (0..2046)
-- Only even positions allowed

IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048}

IB-Type ::= ENUMERATED {
    mib,
    sib1,
    sib2,
    sIB3,
    sIB4,
    sIB5,
    sIB6,
    sIB7,
    sIB8,
    sIB9,
    sIB10,
    sIB11,
    sib12,
    sIB13,
    sIB13dot1,
    sIB13dot2,
    sIB13dot3,
    sIB13dot4,
    sIB14,
    ...
}

IndicationType ::= ENUMERATED {
    noFailure,
    serviceImpacting,
    ...
}

ITPPRM ::= ENUMERATED {
    mode-0,
```

```
mode-1
}

-- =====
-- J
-- =====

-- =====
-- K
-- =====

-- =====
-- L
-- =====

Local-Cell-ID ::= INTEGER (0..268435455)

-- =====
-- 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)

MinSpreadingFactor ::= ENUMERATED {
```

```
    v4,
    v16,
    v32,
    v64,
    v128,
    v256,
    v512,
    ...
}

MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible,
    ...
}

-- =====
-- N
-- =====

NEOT ::= INTEGER (0..8)

NFmax ::= INTEGER (1..64)

N-INSYNC-IND ::= INTEGER (1..256)

N-OUTSYNC-IND ::= INTEGER (1..256)

NodeB-CommunicationContextID ::= INTEGER (0..1048575)

NStartMessage ::= INTEGER (1..8)

-- =====
-- O
-- =====

-- =====
-- P
-- =====
```



```

PagingIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8
}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    cRC-Included,
    cRC-NotIncluded,
    ...
}

PCCPCH-Power ::= INTEGER (-150..400)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

PCP-Length ::= ENUMERATED{
    v0,
    v8
}

PDSCH-CodeMapping ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    signallingMethod          CHOICE {
        code-Range            PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
        tFCI-Range            PDSCH-CodeMapping-DSCH-MappingInformationList,
        explicit               PDSCH-CodeMapping-PDSCH-CodeInformationList
    },
    iE-Extensions             ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0..maxCodeNrComp-1)

PDSCH-CodeMapping-SpreadingFactor ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

```

```

}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF
SEQUENCE {
    spreadingFactor                PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo                 PDSCH-Multi-CodeInfo,
    start-CodeNumber               PDSCH-CodeMapping-CodeNumberComp,
    stop-CodeNumber               PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions                 ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
SEQUENCE {
    maxTFCI-field2-Value          PDSCH-CodeMapping-MaxTFCI-Field2-Value,
    spreadingFactor              PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo               PDSCH-Multi-CodeInfo,
    codeNumber                   PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions                ProtocolExtensionContainer { { PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-MaxTFCI-Field2-Value ::= INTEGER (1..1023)

PDSCH-CodeMapping-PDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
SEQUENCE {
    spreadingFactor                PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo                 PDSCH-Multi-CodeInfo,
    codeNumber                     PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions                 ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-Multi-CodeInfo ::= INTEGER (1..16)

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

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

```

```
PICH-Mode ::= ENUMERATED {
    v18,
    v36,
    v72,
    v144,
    ...
}

PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}

PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range 0dB .. +6dB, Step +0.25dB

PowerRaiseLimit ::= INTEGER (0..10)

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 [9] --

PreambleThreshold ::= INTEGER (0..72)
-- 0= 0dB, 1= 0.5dB, ... , 72= 36dB

PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = 0chip, 1 = 3chips

SCH-TimeSlot ::= INTEGER (0..6)

PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%

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

PUSCHSet-ID ::= INTEGER (0..255)
```

```
-- =====
-- Q
-- =====

QE-Selector ::= ENUMERATED {
    selected,
    non-selected
}

-- =====
-- 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-iscp                   TimeSlot-ISCP-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-iscp                   TimeSlot-ISCP-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)

-- =====
-- S
-- =====

AdjustmentPeriod          ::= INTEGER(1..300)
-- Unit Frame

ScaledAdjustmentRatio     ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

MaxAdjustmentStep        ::= INTEGER(1..10)
-- Unit Slot

ScramblingCodeNumber ::= INTEGER (0..15)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)

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

SFN ::= INTEGER (0..4095)

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
    ...
}

SIR-Error-Value ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
```



```
SIR-Value ::= INTEGER (0..63)
-- According to mapping in [4]/[5]

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SSDT-Cell-Identity ::= ENUMERATED {a, b, c, d, e, f, g, h}

SSDT-CellID-Length ::= ENUMERATED {
    short,
    medium,
    long,
    ...
}

SSDT-Indication ::= ENUMERATED {
    ssdt-active-in-the-UE,
    ssdt-not-active-in-the-UE,
    ...
}

STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-Supported,
    sSDT-not-supported,
    ...
}

SyncCase ::= INTEGER (1..2)

-- =====
-- 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..maxNrOfTFCICombs)) 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 {
        cTFCS-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 as a 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 a 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,
    ...
}

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

-- =====
-- V
-- =====

-- =====
-- W
-- =====

```

```

-- =====
-- X
-- =====

-- =====
-- Y
-- =====

-- =====
-- Z
-- =====

END

```

### 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 NBAP Extension 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
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-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
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-InformationResponseList-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
<del>id-DSCH-AddList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 90</del>
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
<del>id-DSCH-DeleteList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 94</del>
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
<del>id-DSCH-Information-AddList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 97</del>
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
<del>id-DSCH-Information-DeleteList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 99</del>
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
<del>id-DSCH-Information-ModifyList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 101</del>
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
<del>id-DSCH-ModifyList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 113</del>
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
<u>id-TFCI2-Bearer-Information-RL-SetupRqstFDD</u>	<u>INTEGER ::= 412</u>
<u>id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD</u>	<u>INTEGER ::= 413</u>
<u>id-TFCI2-BearerInformationResponse-RL-SetupRspFDD</u>	<u>INTEGER ::= 414</u>

END

## 9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. [11].

[Editor's note: The dating of reference [11] needs to be verified. It has been included from the ITU-T list of recommendations in force. The dating of the reference is FFS.]

## 9.5 Timers

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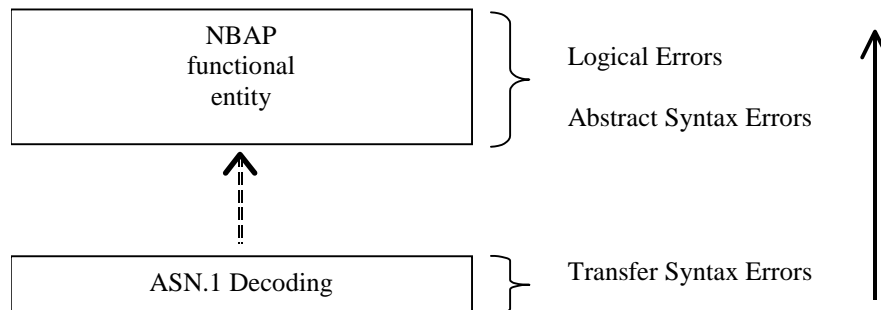
# 10 Handling of unknown, unforeseen and erroneous protocol data

## 10.1 General

Protocol Error cases can be divided into three classes:

- Transfer Syntax Error
- Abstract Syntax Error
- Logical Error

Protocol errors can occur in the following functions within a receiving node:



**Figure 38: Protocol Errors in NBAP.**

## 10.2 Transfer Syntax Error

A Transfer Syntax Error occurs when the receiver is not able to decode the received physical message. Transfer syntax errors are always detected in the process of ASN.1 decoding. If a Transfer Syntax Error occurs, the receiver should initiate Error Indication procedure with appropriate cause value for the Transfer Syntax protocol error.

Examples for Transfer Syntax Errors are:

- Violation of value ranges in ASN.1 definition of messages. e.g.: If an IE has a defined value range of 0 to 10 (ASN.1: INTEGER (0..10)), and 12 will be received, then this will be treated as a transfer syntax error.
- Violation in list element constraints. e.g.: If a list is defined as containing 1 to 10 elements, and 12 elements will be received, then this case will be handled as a transfer syntax error.
- Missing mandatory elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).
- Wrong order of elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).

## 10.3 Abstract Syntax Error

### 10.3.1 General

An Abstract Syntax Error occurs when the receiving functional NBAP entity:

1. receives IEs or IE groups that cannot be understood (unknown id);
2. receives IEs for which the logical range is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message);
3. does not receive IEs or IE groups but according to the specified presence of the concerning object, the IEs or IE groups should have been present in the received message.

Cases 1 and 2 (not comprehended IE/IE group) are handled based on received Criticality information. Case 3 (missing IE/IE group) is handled based on Criticality information and Presence information for the missing IE/IE group specified in the version of the specification used by the receiver.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error act according to the Criticality Information and Presence Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclauses 10.3.4 and 10.3.5.

### 10.3.2 Criticality Information

In the NBAP messages there is criticality information set for individual IEs and/or IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in chapter 10.3.4.

In addition, the criticality information is used in case of the missing IE/IE group abstract syntax error (see subclause 10.3.5).

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

- Reject IE
- Ignore IE and Notify Sender
- Ignore IE

### 10.3.3 Presence Information

For many IEs/IE groups which are optional according to the ASN.1 transfer syntax, NBAP specifies separately if the presence of these IEs/IE groups is optional or mandatory with respect to RNS application by means of the presence field of the concerning object of class NBAP-PROTOCOL-IES, NBAP-PROTOCOL-IES-PAIR, NBAP-PROTOCOL-EXTENSION or NBAP-PRIVATE-IES.

The presence field of the indicated classes supports three values:

1. Optional;
2. Conditional;
3. Mandatory.

If an IE/IE group is not included in a received message and the presence of the IE/IE group is mandatory or the presence is conditional and the condition is true according to the version of the specification used by the receiver, an abstract syntax error occurs due to a missing IE/IE group.

## 10.3.4 Not comprehended IE/IE group

### 10.3.4.1 Procedure Code

The receiving node shall treat the different types of received criticality information of the *Procedure Code* according to the following:

#### Reject IE:

- If a message is received with a *Procedure Code* marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

#### Ignore IE and Notify Sender:

- If a message is received with a *Procedure Code* marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

#### Ignore IE:

- If a message is received with a *Procedure Code* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

### 10.3.4.2 IEs other than the Procedure Code

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure Code* according to the following:

#### Reject IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall initiate the Error Indication procedure.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE*" that the receiving node does not comprehend, the receiving node shall initiate local error handling.

#### Ignore IE and Notify Sender:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and report in the response message of the procedure that one or more IEs/IE groups have been ignored.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and initiate the Error Indication procedure.

#### Ignore IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

## 10.3.5 Missing IE or IE group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

### Reject IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Reject IE*"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate the Error Indication procedure.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate local error handling.

### Ignore IE and Notify Sender:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall initiate the Error Indication procedure.

### Ignore IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message.

## 10.4 Logical Error

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed (unless otherwise specified) as defined by the class of the elementary procedure, irrespective of the criticality of the IEs/IE groups containing the erroneous values.

### Class 1:

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a failure message, the failure message shall be sent with an appropriate cause value.

Typical cause values are:

- Protocol Causes:
  1. Semantic Error
  2. Message not compatible with receiver state

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a failure message, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

Where the logical error exists in a response message of a class 1 procedure, local error handling shall be initiated.

### Class 2:

Where the logical error occurs in a message of a class 2 procedure, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

## Annex A (informative): Change history

Change history					
TSG RAN#	Version	CR	Tdoc RAN	New Version	Subject/Comment
RAN_06	-	-	RP-99764	3.0.0	Approved at TSG RAN #6 and placed under Change Control
RAN_07	3.0.0	-	-	3.1.0	Approved at TSG RAN #7
RAN_08	3.1.0	-	RP-000250	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000251	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000252	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000253	3.2.0	Approved at TSG RAN #8

Rapporteur for TS25.433 is:

[Nobutaka Ishikawa](#)  
[NTT DoCoMo](#)

Tel.: +81 468 40 3220  
Fax : +81 468 40 3840  
Email : [nobu@wsp.yrp.nttdocomo.co.jp](mailto:nobu@wsp.yrp.nttdocomo.co.jp)

## 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 168r2**

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)

**R-WG3**      **NTT DoCoMo**      **Date:** 2000-08-20

**Subject:** Clarification of Physical CH mapping in Multiple DPCH cases (NBAP)

**Work item:** 20.3 (j)

<b>Category:</b> <small>(only one category shall be marked with an X)</small>	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:** Current NBAP specification does not clearly specify how the segmented Physical Channel shall be mapped on to plural codes in the Multiple DPCH cases. The physical channel segmentation rule should refer to TS25.212 section 4.2.10

**Clauses affected:**

- 8.2.17 Radio Link Setup
- 8.3.1 Radio Link Addition
- 8.3.2 synchronised Radio Link Reconfiguration

<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.

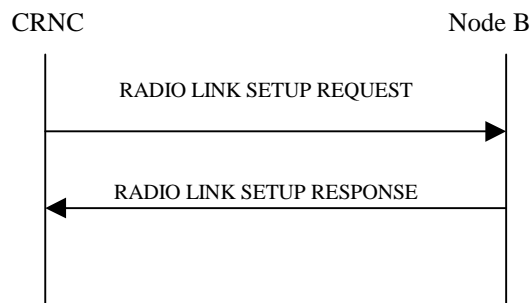


## 8.2.17 Radio Link Setup

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

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 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.

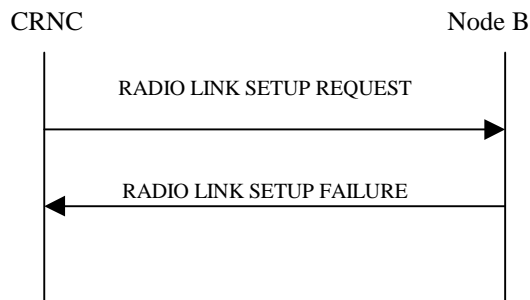
[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

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” 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**

-

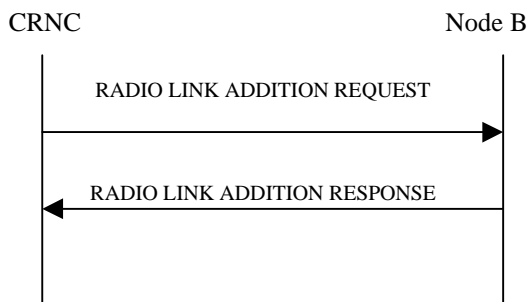
## 8.3.1 Radio Link Addition

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

[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.

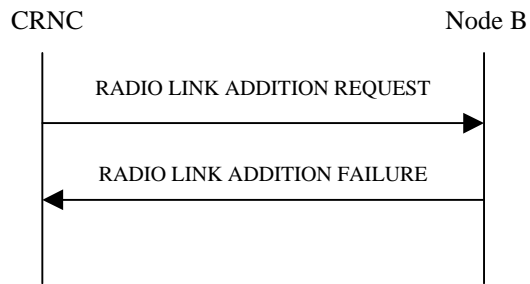
[FDD - Irrespective of SSdT activation, the Node B shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSdT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSdT activation and the RADIO LINK ADDITION RESPONSE message indicates 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 – 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

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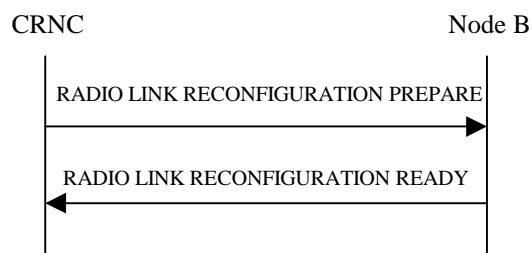
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 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:**

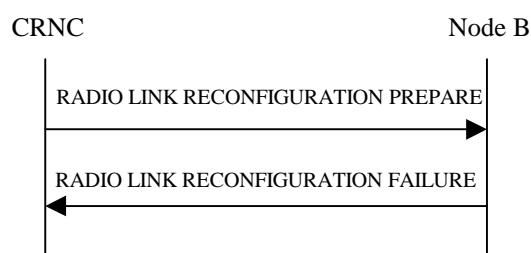
[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

#### **RL Information:**

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

[TDD - 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.

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>
<b>TS 25.433</b>	<b>CR 169r3</b>	Current Version: <b>3.2.0</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>RAN#9</b> <small>list expected approval meeting # here ↑</small>	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-WG3InterDigital**    **Date:**    **08/2000**

**Subject:**    **Alignment of DPCH configuration with WG2 and WG1**

**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"/>
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(only one category shall be marked With an X)

**Reason for change:**    **The configuration of DPCH's, PDSCH's and PUSCH's in WG3 is not completely consistent with WG2 and WG1 specifications**

**Clauses affected:**    **8.2.18, 8.3.2, 9.1.36, 9.1.39, 9.1.42, 9.1.62, 9.2.1.57, 9.2.3.15, 9.2.3.16, 9.2.3.20, 9.2.3.x**

<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:	
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**Other comments:**    \_\_\_\_\_

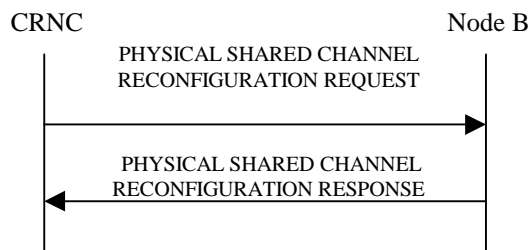
## 8.2.18 Physical Shared Channel Reconfiguration [TDD]

### 8.2.18.1 General

This procedure is used for handling PDSCH Sets and PUSCH Sets in the Node B, i.e.

- Adding new PDSCH Sets and/or PUSCH Sets,
- Modifying these, and
- Deleting them.

### 8.2.18.2 Successful Operation



**Figure 26: Physical Shared Channel Reconfiguration: Successful Operation**

The procedure is initiated with a PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B.

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes an SFN IE the Node B will activate the new configuration on that specified SFN.

#### PDSCH/PUSCH Addition

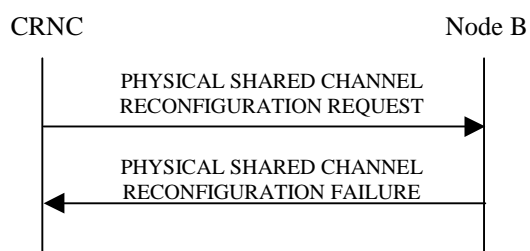
If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be added the Node B shall add these new sets to its PDSCH/PUSCH configuration.

#### PDSCH/PUSCH Modification

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets 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 set are still applicable.

In the successful case, the Node B shall add, modify and delete the PDSCH Sets and PUSCH Sets in the Common Transport Channel data base, as requested in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST, and shall make these available to all the current and future DSCH and USCH transport channels; and shall respond with PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE:

### 8.2.18.3 Unsuccessful Operation



**Figure 17: Physical Shared Channel Reconfiguration procedure: Unsuccessful Operation**

If the Node B is not able to support all parts of the configuration, it shall reject the configuration of all the channels in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message. The *Cause Value* IE shall be set to an appropriate value.

If the configuration was unsuccessful, the Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message:

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Cell not available
- Node B Resources unavailable

#### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Protocol Cause**

- Semantic error

#### **Miscellaneous Cause**

- O&M Intervention
- Unspecified Failure
- Control processing overload
- HW failure

### **8.2.18.4 Abnormal Conditions**

If the C-ID in the PHYSICAL SHARED CHANNEL RECONGURATION REQUEST message is not existing in the Node B, it shall respond with the PHYSICAL SHARED CHANNEL RECONGURATION FAILURE message with the *Cause* IE = 'unknown C-ID'.

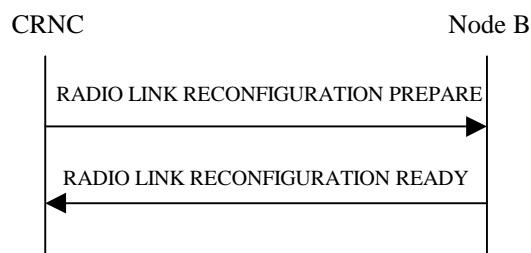
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 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 – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to modify, and includes any of *Repetition Period IE*, *Repetition Length IE*, or *TDD DPCH Offset IE* or the message includes UL/DL Timeslot Information and includes any of *Burst Type IE*, *Midamble shift IE*, *Time Slot IE*, or *TFCI presence IE* or the message includes UL/DL Code information the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]~~

#### [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 – 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 – 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.

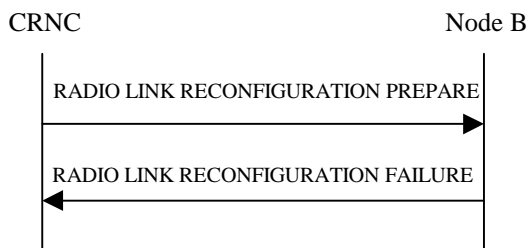
In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

**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>&gt;UL DPCH Information</b>		0..1			YES	notify
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.x		=	
<b>&gt;&gt;UL Timeslot Information</b>		1.. <maxnoof ULts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	M		9.2.3.2		=	
>>>Midamble Shift	M		9.2.3.7		=	
>>>TFCI Presence	M		9.2.1.57		=	
<b>&gt;&gt;&gt;UL Code Information</b>		1.. <maxnoOf DPCH>			=	
>>>>DPCH ID	M		9.2.3.5		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<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>&gt;DL DPCH Information</b>		0..1			YES	notify
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.x		=	
<b>&gt;&gt;DL Timeslot Information</b>		1.. <maxnoof DLts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	M		9.2.3.2		=	
>>>Midamble Shift	M		9.2.3.7		=	
>>>TFCI Presence	M		9.2.1.57		=	
<b>&gt;&gt;&gt;DL Code Information</b>		1.. <maxnoOf DPCH>			=	
>>>>DPCH ID	M		9.2.3.5		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<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
<a href="#">MaxnoofDLts</a>	<a href="#">Maximum number of Downlink time slots per Radio Link</a>
<a href="#">MaxnoofULts</a>	<a href="#">Maximum number of Uplink time slots per Radio Link</a>

## 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 <maxn o CCH>			GLOBAL	reject
>CCH ID	M		9.2.3.3		-	
<b>UL DPCH Information</b>		0 to <maxn oDPCH>			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>&gt;UL DPCH Information</b>		0..1			YES	notify
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.x		=	
<b>&gt;&gt;UL Timeslot Information</b>		1.. <maxn oofULts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	M		9.2.3.2		=	
>>>Midamble Shift	M		9.2.3.7		=	
>>>TFCI Presence	M		9.2.1.57		=	
<b>&gt;&gt;&gt;UL Code Information</b>		1.. <maxn oDPCH>			=	
>>>>DPCH ID	M		9.2.3.5		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<b>DL CCH Information</b>		0 to <maxn o CCH>			GLOBAL	reject
>CCH ID	M		9.2.3.3		-	
<b>DL DPCH information</b>		0 to <maxn oDPCH>			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>&gt;DL DPCH Information</b>		0..1			YES	notify
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.x		=	
<b>&gt;&gt;DL Timeslot Information</b>		1.. <maxnoofDLts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	M		9.2.3.2		=	
>>>Midamble Shift	M		9.2.3.7		=	
>>>TFCI Presence	M		9.2.1.57		=	
<b>&gt;&gt;&gt;DL Code Information</b>		1.. <maxnoOfDPCH>			=	
>>>>DPCH ID	M		9.2.3.5		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<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.
<a href="#">MaxnoofDLts</a>	<a href="#">Maximum number of Downlink time slots per Radio Link</a>
<a href="#">MaxnoofULts</a>	<a href="#">Maximum number of Uplink time slots per Radio Link</a>

## 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>&gt;UL DPCH Information</b>		0..1			YES	notify
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.x		=	
<b>&gt;&gt;UL Timeslot Information</b>		1.. <maxno of ULts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	M		9.2.3.2		=	
>>>Midamble Shift	M		9.2.3.7		=	
>>>TFCI Presence	M		9.2.1.57		=	
<b>&gt;&gt;&gt;UL Code Information</b>		1.. <maxno of DPC Hs>			=	
>>>>DPCH ID	M		9.2.3.5		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<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 add</b>		0.. 1			YES	notify
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.x		=	
<b>&gt;&gt;UL Timeslot Information</b>		1.. <maxno ofULts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	M		9.2.3.2		=	
>>>Midamble Shift	M		9.2.3.7		=	
>>>TFCI Presence	M		9.2.1.57		=	
<b>&gt;&gt;&gt;UL Code Information</b>		1.. <maxno OfDPC H>			=	
>>>>DPCH ID	M		9.2.3.5		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<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 modify</b>		0.. 1			YES	notify
>>Repetition Period	O		9.2.3.16		=	
>>Repetition Length	O		9.2.3.15		=	
>>TDD DPCH Offset	O		9.2.3.x		=	
<b>&gt;&gt;UL Timeslot Information</b>		0 to <maxno ofULts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	O		9.2.3.2		=	

>>>Midamble Shift	<u>Q</u>		<a href="#">9.2.3.7</a>		=	
>>>TFCI Presence	<u>Q</u>		<a href="#">9.2.1.57</a>		=	
<b>&gt;&gt;&gt;UL Code Information</b>		0 to <maxno OfDPC H>			=	
>>>>DPCH ID	<u>M</u>		<a href="#">9.2.3.5</a>		=	
>>>>TDD Channelisation Code	<u>M</u>		<a href="#">9.2.3.19</a>		=	
<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		<a href="#">9.2.3.3</a>		-	
>TFCS	M		<a href="#">9.2.1.58</a>		-	
>TFCI Coding	M		<a href="#">9.2.3.22</a>		-	
>PunctureLimit	M		<a href="#">9.2.1.50</a>		-	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		<a href="#">9.2.3.5</a>		-	
>>TDD Channelisation Code	M		<a href="#">9.2.3.19</a>		-	
>>Burst Type	M		<a href="#">9.2.3.2</a>		-	
>>Midamble Shift	M		<a href="#">9.2.3.7</a>		-	
>>Time Slot	M		<a href="#">9.2.3.23</a>		-	
>>TDD Physical Channel Offset	M		<a href="#">9.2.3.20</a>		-	
>>Repetition Period	M		<a href="#">9.2.3.16</a>		-	
>>Repetition Length	M		<a href="#">9.2.3.15</a>		-	
>>TFCI Presence	M		<a href="#">9.2.1.57</a>		-	
<b>&gt;DL DPCH Information</b>		0..1			YES	notify
>>Repetition Period	M		<a href="#">9.2.3.16</a>		=	
>>Repetition Length	M		<a href="#">9.2.3.15</a>		=	
>>TDD DPCH Offset	M		<a href="#">9.2.3.x</a>		=	
<b>&gt;&gt;DL Timeslot Information</b>		1.. <maxno ofDLts>			=	
>>>Time Slot	M		<a href="#">9.2.3.23</a>		=	
>>>Burst Type	M		<a href="#">9.2.3.2</a>		=	
>>>Midamble Shift	M		<a href="#">9.2.3.7</a>		=	
>>>TFCI Presence	M		<a href="#">9.2.1.57</a>		=	
<b>&gt;&gt;&gt;DL Code Information</b>		1.. <maxno OfDPC H>			=	
>>>>DPCH ID	M		<a href="#">9.2.3.5</a>		=	
>>>>TDD	M		<a href="#">9.2.3.19</a>		=	

<u>Channelisation Code</u>						
<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 add</b>		0..1			YES	notify
>>Repetition Period	M		<a href="#">9.2.3.16</a>		=	
>>Repetition Length	M		<a href="#">9.2.3.15</a>		=	
>>TDD DPCH Offset	M		<a href="#">9.2.3.x</a>		=	
<b>&gt;&gt;DL Timeslot Information</b>		1.. <maxno ofDLts>			=	
>>>Time Slot	M		<a href="#">9.2.3.23</a>		=	
>>>Burst Type	M		<a href="#">9.2.3.2</a>		=	
>>>Midamble Shift	M		<a href="#">9.2.3.7</a>		=	
>>>TFCI Presence	M		<a href="#">9.2.1.57</a>		=	
<b>&gt;&gt;&gt;DL Code Information</b>		1.. <maxno OfDPC H>			=	
>>>>DPCH ID	M		<a href="#">9.2.3.5</a>		=	
>>>>TDD Channelisation Code	M		<a href="#">9.2.3.19</a>		=	
<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 modify</b>		0..1			YES	notify
>>Repetition Period	O		<a href="#">9.2.3.16</a>		=	

>>Repetition Length	O		9.2.3.15		=	
>>TDD DPCH Offset	O		9.2.3.x		=	
>>DL Timeslot Information		0.. <maxno ofDLts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	O		9.2.3.2		=	
>>>Midamble Shift	O		9.2.3.7		=	
>>>TFCI Presence	O		9.2.1.57		=	
>>>DL Code Information		0.. <maxno OfDPC Hs>			=	
>>>>DPCH ID	M		9.2.3.5		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
>DL DPCH to delete		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
DL CCTrCH to Delete		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				-	
DCHs to Modify		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		-	
>DCH Specific Info		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		-	
DCHs to Add		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		-	
>DCH Specific Info		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		–	
<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		–	
>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
<a href="#"><u>MaxnoofDLts</u></a>	<a href="#"><u>Maximum number of Downlink time slots per Radio Link</u></a>
<a href="#"><u>MaxnoofULts</u></a>	<a href="#"><u>Maximum number of Uplink time slots per Radio Link</u></a>

## 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
<a href="#">SFN</a>	<a href="#">O</a>		<a href="#">9.2.1.53A</a>		<a href="#">YES</a>	<a href="#">reject</a>
<b>PDSCH Sets to add</b>		0..<maxnoof PDSCHSets >			GLOBAL	reject
>PDSCH Set Id	M		9.2.3.11		-	
<b>&gt;PDSCH Information</b>		0..<maxnoof PDSCH>1			<a href="#">GLOBALY ES</a>	reject
>>PDSCH ID	M		<a href="#">9.2.3.10</a>		-	
>>TDD Channelisation Code	M		<a href="#">9.2.3.19</a>		-	
>>Burst Type	M		<a href="#">9.2.3.2</a>		-	
>>Midamble Shift	M		<a href="#">9.2.3.7</a>		-	
>>Time Slot	M		<a href="#">9.2.3.23</a>		-	
>>Repetition Period	M		<a href="#">9.2.3.16</a>		-	
>>TDD Physical Channel Offset	$\emptyset$		<a href="#">9.2.3.20</a>		-	
>>Repetition Length	$\emptyset$		<a href="#">9.2.3.15</a>		-	
>>TFCI Presence	M		<a href="#">9.2.1.57</a>		-	
>>Repetition Period	M		<a href="#">9.2.3.16</a>		=	
>>Repetition Length	M		<a href="#">9.2.3.15</a>		=	
>>TDD Physical Channel Offset	M		<a href="#">9.2.3.20</a>		=	
<b>&gt;&gt;DL Timeslot Information</b>		1..<maxnoofDL ts>			=	
>>>Time Slot	M		<a href="#">9.2.3.23</a>		=	
>>>Burst Type	M		<a href="#">9.2.3.2</a>		=	
>>>Midamble Shift	M		<a href="#">9.2.3.7</a>		=	
>>>TFCI Presence	M		<a href="#">9.2.1.57</a>		=	
<b>&gt;&gt;&gt;DL Code Information</b>		1..<maxnoOfP DSCH>			=	
>>>>PDSCH ID	M		<a href="#">9.2.3.10</a>		=	
>>>>TDD Channelisation Code	M		<a href="#">9.2.3.19</a>		=	
<b>PDSCH Sets to Modify</b>		0..<maxnoof PDSCHSets >			GLOBAL	reject
>PDSCH Set Id	M		9.2.3.11		-	
<b>&gt;PDSCH Information</b>		10..<maxno of PDSCH>			<a href="#">GLOBALY ES</a>	reject
>>PDSCH ID	M		<a href="#">9.2.3.10</a>		-	
>>TDD Channelisation Code	M		<a href="#">9.2.3.19</a>		-	
>>Burst Type	M		<a href="#">9.2.3.2</a>		-	
>>Midamble Shift	M		<a href="#">9.2.3.7</a>		-	
>>Time Slot	M		<a href="#">9.2.3.23</a>		-	
>>Repetition Period	M		<a href="#">9.2.3.16</a>		-	



>>TDD Physical Channel Offset	⊖		9.2.3.20		-	
>>Repetition Length	⊖		9.2.3.15		-	
>>TFCI Presence	M		9.2.1.57		-	
>>Repetition Period	⊖		9.2.3.16		=	
>>Repetition Length	⊖		9.2.3.15		=	
>>TDD Physical Channel Offset	⊖		9.2.3.x		=	
>>DL Timeslot Information		0..<maxnoofDLts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	⊖		9.2.3.2		=	
>>>Midamble Shift	⊖		9.2.3.7		=	
>>>TFCI Presence	⊖		9.2.1.57		=	
>>>DL Code Information		0..<maxnoOfPDSCH>			=	
>>>>PDSCH ID	M		9.2.3.10		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<b>PDSCH Sets to Delete</b>		0..<maxnoofPDSCHSets>			GLOBAL	reject
>PDSCH Set Id	M		9.2.3.11		-	
<b>PUSCH Sets to add</b>		0..<maxnoofPUSCHSets>			GLOBAL	reject
>PUSCH Set Id	M		9.2.3.13		-	
<b>&gt;PUSCH Information</b>		0..<maxnoofPUSCH> <u>1</u>			<u>GLOBAL</u> <u>ES</u>	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	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical Channel Offset	⊖		9.2.3.20		-	
>>Repetition Length	⊖		9.2.3.15		-	
>>TFCI Presence	M				-	
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD Physical Channel Offset	M		9.2.3.20		=	
>>UL Timeslot Information		1..<maxnoofULts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	M		9.2.3.2		=	
>>>Midamble Shift	M		9.2.3.7		=	
>>>TFCI Presence	M		9.2.1.57		=	
>>>UL Code Information		1..<maxnoOfPUSCH>			=	
>>>>PUSCH ID	M		9.2.3.12		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	

<b>PUSCH Sets to Modify</b>		0..<maxnoof PUSCHSets >			GLOBAL	reject
>PUSCH Set Id	M		9.2.3.13		-	
<b>&gt;PUSCH Information</b>		0..<maxnoof PUSCH>1			<del>GLOBAL</del> ES	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	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical Channel Offset	⊖		9.2.3.20		-	
>>Repetition Length	⊖		9.2.3.15		-	
>>TFCI Presence	M		9.2.1.57		-	
>>Repetition Period	⊖		9.2.3.16		=	
>>Repetition Length	⊖		9.2.3.15		=	
>>TDD Physical Channel Offset	⊖		9.2.3.20		=	
<b>&gt;&gt;UL Timeslot Information</b>		0..<maxnoofULts>			=	
>>>Time Slot	M		9.2.3.23		=	
>>>Burst Type	⊖		9.2.3.2		=	
>>>Midamble Shift	⊖		9.2.3.7		=	
>>>TFCI Presence	⊖		9.2.1.57		=	
<b>&gt;&gt;&gt;UL Code Information</b>		0..<maxnoOfPDSCH>			=	
>>>>PUSCH ID	M		9.2.3.12		=	
>>>>TDD Channelisation Code	M		9.2.3.19		=	
<b>PUSCH Sets to Delete</b>		0..<maxnoof PUSCHSets >			GLOBAL	reject
>PUSCH Set Id	M		9.2.3.13		-	

Range bound	Explanation
Maxnoof PDSCH Sets	Maximum number of PDSCH Sets in a cell.
Maxnoof PDSCH	Maximum number of PDSCH in a cell.
Maxnoof PUSCH Sets	Maximum number of PUSCH Sets in a cell.
Maxnoof PUSCH	Maximum number of PUSCH in a cell.
MaxnoofDLts	Maximum number of Downlink time slots in a cell
MaxnoofULts	Maximum number of Uplink time slots in a cell

## 9.2.1.57 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included. [In TDD if it is present in the timeslot, it will be included within the first Channelization code listed.](#)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI presence			ENUMERATED (Present, not present)	

### 9.2.3.15 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel [\[see 18\]](#).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Length			INTEGER(1..63)	

### 9.2.3.16 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot  $K$  is assigned to a physical channel in the Radio Frame  $J$ , it is assigned to the same physical channel also in all the Radio Frames  $J+n*Repetition\ Period$  (where  $n$  is an integer) [see \[18\]](#).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Period			ENUMERATED(1, 2, 4, 8, 16, 32, 64)	

### 9.2.3.17 SCH Time Slot

The SCH Time Slot is only applicable if the value of Sync Case IE is Case 2.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SCH Time Slot			INTEGER(0..6)	

### 9.2.3.18 Sync case

The SCH and PCCPCH are mapped on one or two downlink slots per frame. There are two cases of SCH and PCCPCH allocation as follows:

- Case 1) SCH and PCCPCH allocated in a single TS#k
- Case 2) SCH allocated in two TS: TS#k and TS#k+8  
PCCPCH allocated in TS#k

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Sync Case			Integer (1..2)	

### 9.2.3.19 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Channelisation Code			ENUMERATED ((1/1), (2/1), (2/2), (4/1),... (4/4), (8/1), (8/8), (16/1)... (16/16))	

### 9.2.3.20 TDD Physical Channel Offset

The Offset represents the phase information for the allocation of a [non DPCH](#) physical channel. ( $SPN\_CFN \bmod \text{Repetition Period} = \text{Offset}$ ) [see \[18\]](#).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Physical Channel Offset			INTEGER (0..63)	

### 9.2.3.21 TDD 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
TDD TPC Downlink step size			ENUMERATED (1, 2, 3)	

### 9.2.3.22 TFCI Coding

The TFCI Coding describes the way how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Coding			Enumerated (4, 8, 16, 32)	

### 9.2.3.23 Time Slot

The Time Slot represents the minimum time interval inside a Radio Frame that can be assigned to a Physical Channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Time Slot			INTEGER (0..14)	

### 9.2.3.24 Time Slot Direction

This parameter indicates whether the TS in the cell is used in Uplink or Downlink direction.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Time Slot Direction			Enumerated (UL, DL)	

### 9.2.3.25 Time Slot Status

This parameter indicates whether the TS in the cell is active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Time Slot Status			Enumerated (active, notActive)	

### 9.2.3.26 Transmission Diversity Applied

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmission Diversity Applied			Boolean	

### 9.2.3.27 USCH ID

The USCH ID uniquely identifies a USCH within a Node B Communication Context.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
USCH ID			INTEGER (0..255)	

### 9.2.3.x TDD DPCH Offset

[The Offset represents the phase information for the allocation of a group of dedicated physical channels. The first range is used when a starting offset is not required and the TDD Physical channel offset for each DPCH in the CCTrCH shall be directly determined from the TDD DPCH Offset. The second range is used when a starting offset is required. The TDD DPCH Offset shall map to the CFN and the TDD Physical Channel Offset for each DPCH in this CCTrCH shall be calculated by TDD DPCH Offset \*mod\* Repetition period, see \[18\].](#)

<a href="#">IE/Group Name</a>	<a href="#">Presence</a>	<a href="#">Range</a>	<a href="#">IE type and reference</a>	<a href="#">Semantics description</a>
<a href="#">TDD DPCH Offset</a>			<a href="#">CHOICE INTEGER (0..63) or INTEGER (0..255)</a>	

### 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-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-DPCHOffset,  
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

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

id-Active-Pattern-Sequence-Information,
id-AdjustmentRatio,
id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rqst,
id-AllRLItem-Set-DM-Rqst,
id-AP-AICH-InformationItem-AuditRsp,
id-AP-AICH-InformationItem-ResourceStatusInd,
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-CaselItem-Cell-SetupRqstTDD,

```

id-Case2Item-Cell-SetupRqstTDD,  
id-Cause,  
id-CauseLevel-PSCH-ReconfFailureTDD,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CCP-InformationItem-AuditRsp,  
id-CCP-InformationList-AuditRsp,  
id-CCP-InformationItem-ResourceStatusInd,  
id-CDCA-ICH-InformationItem-AuditRsp,  
id-CDCA-ICH-InformationItem-ResourceStatusInd,  
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellItem-CM-Rprt,  
id-CellItem-CM-Rqst,  
id-CellItem-CM-Rsp,  
id-CellParameterID,  
id-CFN,  
id-C-ID,  
id-Closed-Loop-Timing-Adjustment-Mode,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommunicationControlPortID,  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,  
id-ConfigurationGenerationID,  
id-CPCH-InformationItem-AuditRsp,  
id-CPCH-InformationItem-ResourceStatusInd,  
id-CPCHItem-CM-Rprt,  
id-CPCHItem-CM-Rqst,  
id-CPCHItem-CM-Rsp,  
id-CPCHListItem-CTCH-ReconfRqstFDD,  
id-CPCH-Parameters-CTCH-SetupRsp,  
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,

id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseListIE-RL-ReconfReady,  
id-DCH-InformationResponseListIE-RL-ReconfRsp,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
~~id-DL-DPCH-InformationList-RL-AdditionRqstTDD,~~  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DL-TPC-Pattern01Count,  
id-DPCHConstant,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,

id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationResponseListIE-RL-ReconfReady,  
id-DSCH-InformationResponseListIE-RL-ReconfRsp,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-GeneralCauseItem-PSCH-ReconfFailureTDD,  
id-GeneralCauseItem-RL-AdditionFailureFDD,  
id-GeneralCauseItem-RL-AdditionFailureTDD,  
id-GeneralCauseItem-RL-ReconfFailure,  
id-GeneralCauseItem-RL-SetupFailureFDD,  
id-GeneralCauseItem-RL-SetupFailureTDD,  
id-IndicationType-ResourceStatusInd,  
id-Limited-power-increase-information-Cell-SetupRqstFDD,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementAvailableItem-CommonMeasurementReport,  
id-MeasurementnotAvailableItem-CommonMeasurementReport,  
id-MeasurementAvailableItem-DedicatedMeasurementReport,

id-MeasurementnotAvailableItem-DedicatedMeasurementReport,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,  
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PCPCH-InformationItem-AuditRsp,  
id-PCPCH-InformationItem-ResourceStatusInd,  
id-PCPCHItem-CTCH-SetupRqstFDD,  
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD,  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHConstant,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACHListIE-CTCH-ReconfRqstFDD,  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,

id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHConstant,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-RACH-InformationItem-AuditRsp,  
id-RACH-InformationItem-ResourceStatusInd,  
id-RACHItem-CTCH-SetupRsp,  
id-RACHItem-CM-Rprt,  
id-RACHItem-CM-Rqst,  
id-RACHItem-CM-Rsp,  
id-RACH-Parameters-CTCH-SetupRsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,

id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-RLSpecificCauseItem-RL-AdditionFailureFDD,  
id-RLSpecificCauseItem-RL-AdditionFailureTDD,  
id-RLSpecificCauseItem-RL-ReconfFailure,  
id-RLSpecificCauseItem-RL-SetupFailureFDD,  
id-RLSpecificCauseItem-RL-SetupFailureTDD,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SetSpecificCauseItem-PSCH-ReconfFailureTDD,  
id-SFN,



id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
id-Synchronisation-Configuration-Cell-SetupRqst,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-Transmission-Gap-Pattern-Sequence-Information,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
~~id-UL-DPCH-InformationList-RL-AdditionRqstTDD,~~  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,

id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-ReconfReady,  
id-USCH-InformationResponseListIE-RL-ReconfRsp,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,

```
-- *****
--
-- 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 }|
  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 }|
  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,
UL-DPCH-Information UL-DPCH-InformationList-RL-SetupRqstTDD OPTIONAL,
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 ProtocolIE-Container {{UL-DPCH-InformationItem-RL-SetupRqstTDD}}

UL-DPCH-InformationItem-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory },
...
}

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
repetitionPeriod          RepetitionPeriod,
repetitionLength         RepetitionLength,
tdd-DPCHOffset          TDD-DPCHOffset,
UL-Timeslot-InformationList-RL-SetupRqstTDD UL-Timeslot-InformationList-RL-SetupRqstTDD,
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 ::= {
...
}

UL-Timeslot-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem-RL-SetupRqstTDD

UL-Timeslot-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
timeSlot                  TimeSlot,
burstType                 BurstType,
midambleShift            MidambleShift,
tFCI-Presence            TFCI-Presence,
UL-Code-InformationList-RL-SetupRqstTDD UL-Code-InformationList-RL-SetupRqstTDD,
iE-Extensions            ProtocolExtensionContainer { { UL-Timeslot-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
...
}

```

```

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

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

UL-Code-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions          ProtocolExtensionContainer { { UL-Code-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-Code-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,
    DL-DPCH-Information      DL-DPCH-InformationList-RL-SetupRqstTDD OPTIONAL,
    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 ProtocolIE-Container {{DL-DPCH-InformationItem-RL-SetupRqstTDD}}

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

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,

```

```

    repetitionLength,
    DL-Timeslot-InformationList-RL-SetupRqstTDD DL-Timeslot-InformationList-RL-SetupRqstTDD,
    dPCH-ID,
    tdd-ChannelisationCode,
    burstType,
    midambleShift,
    timeSlot,
    tdd-PhysicalChannelOffset,
    repetitionPeriod,
    repetitionLength,
    tFCI-Presence,
    iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Timeslot-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationItem-RL-SetupRqstTDD

DL-Timeslot-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    timeSlot,
    burstType,
    midambleShift,
    tFCI-Presence,
    DL-Code-InformationList-RL-SetupRqstTDD DL-Code-InformationList-RL-SetupRqstTDD,
    iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DL-Code-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID,
    tdd-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { DL-Code-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-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
    iE-Extensions      DCH-SpecificInformationList-RL-SetupRqstTDD,
                      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
    dl-TransportFormatSet
    frameHandlingPriority
    qE-Selector        TransportFormatSet,
                      TransportFormatSet,
                      FrameHandlingPriority    OPTIONAL,
                      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
    frameHandlingPriority
    toAWS              TransportFormatSet,
    toAWE              FrameHandlingPriority,
    iE-Extensions      ToAWS,
                      ToAWE,
                      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 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,
uL-DPCH-Information          UL-DPCH-InformationList-RL-AdditionRqstTDD          OPTIONAL,
    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 {
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tdd-DPCHOffset           TDD-DPCHOffset,
  uL-Timeslot-InformationList-RL-AdditionRqstTDD            UL-Timeslot-InformationList-RL-AdditionRqstTDD,
  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-AdditionRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

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

UL-Timeslot-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem-RL-AdditionRqstTDD

UL-Timeslot-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
  timeSlot                 TimeSlot,
  burstType                BurstType,
  midambleShift            MidambleShift,
  tFCI-Presence            TFCI-Presence,
  uL-Code-InformationList-RL-AdditionRqstTDD            UL-Code-InformationList-RL-AdditionRqstTDD,
  iE-Extensions            ProtocolExtensionContainer { { UL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

UL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Code-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationItem-RL-AdditionRqstTDD

UL-Code-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
  dPCH-ID                  DPCH-ID,
  tdd-ChannelisationCode   TDD-ChannelisationCode,
  iE-Extensions            ProtocolExtensionContainer { { UL-Code-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

UL-Code-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,
    DL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL,
    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 {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-DPCHOffset            TDD-DPCHOffset,
    DL-Timeslot-InformationList-RL-AdditionRqstTDD                DL-Timeslot-InformationList-RL-AdditionRqstTDD,
    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-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

DL-Timeslot-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSS)) OF DL-Timeslot-InformationItem-RL-AdditionRqstTDD

```

```

DL-Timeslot-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    burstType                BurstType,
    midambleShift            MidambleShift,
    tFCI-Presence            TFCI-Presence,
    dL-Code-InformationList-RL-AdditionRqstTDD DL-Code-InformationList-RL-AdditionRqstTDD,
    iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

```

```

DL-Code-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationItem-RL-AdditionRqstTDD

```

```

DL-Code-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {

```

```

    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { { DL-Code-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DL-Code-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 ::= {

```

```

    ...
}

```

```
-- *****
--
-- 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-InformationAddItemListIE-RL-ReconfPrepTDD ::= SEQUENCE {
repetitionPeriod      RepetitionPeriod,
repetitionLength     RepetitionLength,
tdd-DPCHOffset      TDD-DPCHOffset,
uL-Timeslot-InformationAddList-RL-ReconfPrepTDD  UL-Timeslot-InformationAddList-RL-ReconfPrepTDD,
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-Timeslot-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD

```

UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    burstType                BurstType,
    midambleShift            MidambleShift,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationAddList-RL-ReconfPrepTDD  UL-Code-InformationAddList-RL-ReconfPrepTDD,
    iE-Extensions            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

```

UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

    ...
}

```

UL-Code-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationAddItem-RL-ReconfPrepTDD

```

UL-Code-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                  DPCH-ID,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { { UL-Code-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

```

UL-Code-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-AddItemAddListIE-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tdd-DPCHOffset            TDD-DPCHOffset,
  uL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD          UL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD,
  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-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD~~

```

UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlot                  TimeSlot,
  burstType                 BurstType,
  midambleShift             MidambleShift,
  tFCI-Presence             TFCI-Presence,
  uL-Code-InformationModify-AddList-RL-ReconfPrepTDD          UL-Code-InformationModify-AddList-RL-ReconfPrepTDD,
  iE-Extensions             ProtocolExtensionContainer { { UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

~~UL-Code-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-AddItem-RL-ReconfPrepTDD~~

```

UL-Code-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID                   DPCH-ID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
  iE-Extensions             ProtocolExtensionContainer { { UL-Code-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

```



```

...
]
UL-Code-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-ModifyListIEItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-DPCHOffset TDD-DPCHOffset OPTIONAL,
  uL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
  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-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-
ReconfPrepTDD

UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  burstType BurstType OPTIONAL,
  midambleShift MidambleShift OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
  OPTIONAL,
}

```

```

    ...
  ]
  UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
  ]
  UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
  UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                               DPCH-ID,
    tdd-ChannelisationCode                 TDD-ChannelisationCode,
    iE-Extensions                          ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
  ]
  UL-Code-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-InformationAddListIEItem-RL-ReconfPrepTDD ::= SEQUENCE {
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
tdd-DPCHOffset TDD-DPCHOffset,
dl-Timeslot-InformationAddList-RL-ReconfPrepTDD DL-Timeslot-InformationAddList-RL-ReconfPrepTDD,
dPCH-ID DPCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode,
burstType BurstType,
midambleShift MidambleShift,
timeSlot TimeSlot,
tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
repetitionPeriod RepetitionPeriod,
rppetitionLength 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-Timeslot-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-RL-ReconfPrepTDD

DL-Timeslot-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {  
timeSlot TimeSlot,  
burstType BurstType,  
midambleShift MidambleShift,  
tFCI-Presence TFCI-Presence,  
dl-Code-InformationAddList-RL-ReconfPrepTDD DL-Code-InformationAddList-RL-ReconfPrepTDD,  
iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,  
...  
}

DL-Timeslot-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}  
DL-Code-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationAddItem-RL-ReconfPrepTDD

DL-Code-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {  
dPCH-ID DPCH-ID,  
tdd-ChannelisationCode TDD-ChannelisationCode,  
iE-Extensions ProtocolExtensionContainer { { DL-Code-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,  
...  
}

DL-Code-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-AddItemRL-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tdd-DPCHOffset            TDD-DPCHOffset,
  dL-Timeslot-InformationAddModify-AddList-RL-ReconfPrepTDD          DL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD,
  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-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

```

~~DL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF DL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD~~

```

DL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlot                  TimeSlot,
  burstType                 BurstType,
  midambleShift             MidambleShift,
  tFCI-Presence             TFCI-Presence,
  dL-Code-InformationModify-AddList-RL-ReconfPrepTDD          DL-Code-InformationModify-AddList-RL-ReconfPrepTDD,
  iE-Extensions             ProtocolExtensionContainer { { DL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

```

~~DL-Code-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationModify-AddItem-RL-ReconfPrepTDD~~

```

DL-Code-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID                   DPCH-ID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
  iE-Extensions             ProtocolExtensionContainer { { DL-Code-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

}
DL-Code-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,
repetitionPeriod RepetitionPeriod OPTIONAL,
repetitionLength RepetitionLength OPTIONAL,
tdd-DPCHOffset TDD-DPCHOffset OPTIONAL,
dL-Timeslot-InformationAddModify-ModifyList-RL-ReconfPrepTDD DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
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 { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}
DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF DL-Timeslot-InformationModify-ModifyItem-RL-
ReconfPrepTDD
DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
timeSlot TimeSlot,
burstType BurstType OPTIONAL,
midambleShift MidambleShift OPTIONAL,
tFCI-Presence TFCI-Presence OPTIONAL,
dL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}

```

```

}
DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}
DL-Code-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 ::= {
    ...
}

```

```

-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

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

PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID          CRITICALITY  reject          TYPE      C-ID          PRESENCE mandatory
    } |
    { ID      id-SFN          CRITICALITY  reject          TYPE      SFN          PRESENCE optional} |
    { ID      id-PDSCHSets-AddList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PDSCHSets-AddList-PSCH-ReconfRqst  PRESENCE
    optional } |
    { ID      id-PDSCHSets-ModifyList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PDSCHSets-ModifyList-PSCH-ReconfRqst  PRESENCE
    optional } |
    { ID      id-PDSCHSets-DeleteList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PDSCHSets-DeleteList-PSCH-ReconfRqst  PRESENCE
    optional } |
    { ID      id-PUSCHSets-AddList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PUSCHSets-AddList-PSCH-ReconfRqst  PRESENCE
    optional } |
    { ID      id-PUSCHSets-ModifyList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PUSCHSets-ModifyList-PSCH-ReconfRqst  PRESENCE
    optional } |
    { ID      id-PUSCHSets-DeleteList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PUSCHSets-DeleteList-PSCH-ReconfRqst  PRESENCE
    optional },
    ...
}

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

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-ListIE-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  dl-Timeslot-InformationAddList-PSCH-ReconfRqst DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
  pDSCH-ID PDSCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  burstType BurstType,
  midambleShift MidambleShift,
  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 ::= {
  ...
}

```

```

DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSS)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

```

```

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot TimeSlot,
  burstType BurstType,
  midambleShift MidambleShift,
  tFCI-Presence TFCI-Presence,
  dl-Code-InformationAddList-PSCH-ReconfRqst DL-Code-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

```

```

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSS)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

```

```

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID PDSCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,

```

```

    iE-Extensions                               ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}
DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
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 {
    repetitionPeriod                           RepetitionPeriod                               OPTIONAL,
    repetitionLength                           RepetitionLength                               OPTIONAL,
    tdd-PhysicalChannelOffset                   TDD-PhysicalChannelOffset                     OPTIONAL,
    dl-Timeslot-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    pDSCH-ID                                   PDSCH-ID,
    tdd-ChannelisationCode                       TDD-ChannelisationCode,
    burstType                                   BurstType,
    midambleShift                               MidambleShift,
    timeslot                                    Timeslot,
    repetitionPeriod                           RepetitionPeriod,
    tdd-PhysicalChannelOffset                   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 ::= {
    ...
}

```

```

}

DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    burstType                BurstType          OPTIONAL,
    midambleShift           MidambleShift     OPTIONAL,
    tFCI-Presence           TFCI-Presence     OPTIONAL,
    dL-Code-InformationModifyList-PSCH-ReconfRqst  DL-Code-InformationModifyList-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
    ...
}

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions           ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
    ...
}

DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst

PDSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID            PDSCHSet-ID,
    iE-Extensions          ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
    ...
}

PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst

PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID            PUSCHSet-ID,
    pUSCH-InformationList  PUSCH-InformationAddList-PSCH-ReconfRqst  OPTIONAL,
    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-ListIE-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  uL-Timeslot-InformationAddList-PSCH-ReconfRqst UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
  pUSCH-ID PUSCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  burstType BurstType,
  midambleShift MidambleShift,
  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 ::= {
  ...
}
```

~~UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst~~

```
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot TimeSlot,
  burstType BurstType,
  midambleShift MidambleShift,
  tFCI-Presence TFCI-Presence,
  uL-Code-InformationAddList-PSCH-ReconfRqst UL-Code-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}
```

```
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```



```

}
UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst
UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID PUSCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}
UL-Code-InformationAddItem-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 {
    repetitionPeriod RepetitionPeriod OPTIONAL,
    repetitionLength RepetitionLength OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    uL-Timeslot-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    pUSCH-ID PUSCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType BurstType,
    midambleShift MidambleShift,
    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 ::= {
...
}

```

```

UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

```

```

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
timeSlot TimeSlot,
burstType BurstType OPTIONAL,
midambleShift MidambleShift OPTIONAL,
tFCI-Presence TFCI-Presence OPTIONAL,
uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

```

```

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

```

```

UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
pUSCH-ID PUSCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode,
iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

```

```

UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

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 ::= {
...
}

```

```
-- =====  
-- 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-DPCHOffset ::= CHOICE {  
    initialOffset      INTEGER (0..255),  
    noinitialOffset   INTEGER (0..63)  
}  
  
TDD-PhysicalChannelOffset ::= INTEGER (0..63)  
  
TDD-TPC-DownlinkStepSize ::= ENUMERATED {  
    step-size1,  
    step-size2,  
    step-size3,  
    ...  
}
```

```
-- *****
--
-- 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
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
<del>id-DL-DPCH-InformationList-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 78</del>
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
<del>id-UL-DPCH-InformationList-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 290</del>
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

## 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 170r1**

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:**

**Subject:** Node B communication context ID IE in Radio Link Setup Failure message

**Work item:**

<b>Category:</b> <small>(only one category shall be marked with an X)</small>	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:** In this document it is proposed that the presence of Node B communication context ID IE in Radio Link Setup Failure message shall be optional, since if all RLS fail there is no point to allocate 'Node B communication context ID' for RNC as the whole procedure failed already in the setup phase.

**Clauses affected:** 9.1.38.1, 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:**



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

## 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	<del>M</del> C-Success		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>						
>General					YES	ignore
>>Cause	M					
>RL specific					YES	ignore
>>Unsuccessful RL Information Response		1 to <maxnoo fRLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
>>Successful RL Information Response		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>					–	
>>>>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 <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		–	
>>>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	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.

### 9.3.3 NBAP PDU Content Definitions

... Text omitted ...

```
-- *****
--
-- 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 conditionalmandatory }|
    -- This IE is present if at least one of the radio links has been successfully set up
    { ID id-CommunicationControlPortID          CRITICALITY ignore          TYPE CommunicationControlPortID
      PRESENCE optional }|
    { ID id-CauseLevel-RL-SetupFailureFDD          CRITICALITY ignore          TYPE CauseLevel-RL-SetupFailureFDD
      PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics          CRITICALITY ignore          TYPE CriticalityDiagnostics
      PRESENCE optional },
    ...
}

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

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

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

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

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      CRITICALITY      ignore      TYPE      RLSpecificCauseItem-RL-SetupFailureFDD
      PRESENCE      mandatory      },
    ...
}

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      CRITICALITY      ignore      TYPE      Unsuccessful-RL-InformationRespItem-RL-
SetupFailureFDD      PRESENCE      mandatory},
    ...
}

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
SetupFailureFDD PRESENCE mandatory},
    ...
}

Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID RL-ID,
    rL-Set-ID RL-Set-ID,
    ul-InterferenceLevel UL-InterferenceLevel,
    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 ::= {
    ...
}

```

## 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 173r1**

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:** June 2000

**Subject:** Correction of Tabular formats and Information Element definitions

**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:**

This CR corrects the Tabular formats and Information Element Definitions:

- Correction of function definition and mapping between functions and elementary procedures
- COMMON TRANSPORT CHANNEL SETUP REQUEST:  
In the present defined structure the S-CCPCH information is a subset of the CCTrCH. The Transport channels FACH and PCH are a further subset of the S-CCPCH. This is not correct since it does not reflect the mapping of the Transport Channel to a CCTrCh, which is then mapped to one or several Physical Channels. The COMMON TRANSPORT CHANNEL SETUP REQUEST message shall therefore be corrected that the Transport Channels points to the CCTrCH and the CCTrCH includes the Physical Channels that are mapped to. One indentation of FACH and PCH/PICH shall therefore be deleted. In addition TFCI Coding and Puncture Limit are added to physical channel configuration of DL channels as used within RRC spec and "1" is added to the Range field of RACH.
- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST  
Editorial correction
- RADIO LINK SETUP REQUEST:  
Correction of the indentation of the DPCH Information. The DPCH Information should have one more level of indentation to make it a subset of the CCTrCH Information.
- RADIO LINK SETUP RESPONSE:  
Correction of the indentation of the UL Interference per Time Slot. One indentation shall be added therefore.
- RADIO LINK ADDITION REQUEST:  
Correction of the indentation of the DPCH information. As within the RADIO LINK SETUP REQUEST the DPCH Information shall be subset of the CCTrCH. One indentation shall be added therefore. In addition the reference number of IEs has been corrected and the 'Initial DL Power' has been renamed to 'Initial DL

- transmission Power'
  - RADIO LINK ADDITION RESPONSE:  
Correction of the reference number
  - Criticality diagnostics:  
Addition of IE description
  - DSCH Transport Format Set:  
Removed because obsolete (replaced by TFS)
  - DSCH Transport Format Combination Set:  
Removed because obsolete (replaced by TFCS)
  - Message Type:  
Addition of the Physical Shared Channel Reconfiguration procedure code
  - Max PRACH Midamble shift:  
Addition of IE description
  - Paging Indicator Length  
Addition of IE description
  - P CCPCH Power:  
Addition of IE description
  - PRACH Midamble:  
Addition of IE description
  - Transmission Diversity Applied:  
Addition of IE description
- Changes within the revised version CR173r1: (all changes are highlighted in green)
- Elementary procedures corrected in section 7 table1
  - Reference number of Transaction ID in 9.1.39.2 corrected
  - Description of Criticality diagnostics completed
  - Removed IE definitions of 9.2.1.28 and 9.2.1.29 corrected
  - Name of IE type in IE Message Type corrected
  - Reference point for IE PCCPCH added

**Clauses affected:** 7, 9.1.3.2, 9.1.6.2, 9.1.36.2, 9.1.37.2, 9.1.39, 9.1.40, 9.2.1.17, 9.2.1.28, 9.2.1.29, 9.2.1.46, 9.2.3.6, 9.2.3.8, 9.2.3.9, 9.2.3.14, 9.2.3.26, 9.3.3, 9.3.7

<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.](#)

---

## 7 Functions of NBAP

The NBAP protocol has the following functions:

- Cell Configuration Management. This function gives the CRNC the possibility to manage the cell configuration information in a Node B.
- Common Transport Channel Management. This function gives the CRNC the possibility to manage the configuration of Common Transport Channels in a Node B.
- System Information Management. This function gives the CRNC the ability to manage the scheduling of System Information to be broadcast in a cell.
- Resource Event Management. This function gives the Node B the ability to inform the CRNC about the status of Node B resources.
- Configuration Alignment. This function gives the CRNC and the Node B the possibility to verify that both nodes has the same information on the configuration of the radio resources.
- Measurements on Common Resources. This function allows the CRNC to initiate measurements in the Node B. The function also allows the Node B to report the result of the measurements.
- Radio Link Management. This function allows the CRNC to manage radio links using dedicated resources in a Node B.
- Radio Link Supervision. This function allows the CRNC to report failures and restorations of a Radio Link.
- Compressed Mode Control [FDD]. This function allows the CRNC to control the usage of compressed mode in a Node B.
- Measurements on Dedicated Resources. This function allows the CRNC to initiate measurements in the NodeB. The function also allows the NodeB to report the result of the measurements.
- DL Power Drifting Correction [~~FDD~~]. This function allows the CRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links.
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- Physical Shared Channel Management [TDD]. This function allows the CRNC to manage physical resources in the Node B belonging to Shared Channels (USCH/DSCH).

The mapping between the above functions and NBAP elementary procedures is shown in the table below.

**Table 1: Mapping between functions and NBAP elementary procedures**

Function	Elementary Procedure(s)
Cell Configuration Management	a) Cell Setup b) Cell Reconfiguration c) Cell Deletion
Common Transport Channel Management	a) Common Transport Channel Setup b) Common Transport Channel Reconfiguration c) Common Transport Channel Deletion
System Information Management	System Information Update
Resource Event Management	a) Block Resource b) Unblock Resource c) Resource Status Indication
Configuration Alignment	a) Audit Required b) Audit
Measurements on Common Resources	a) Common Measurement Initiation b) Common Measurement Reporting c) Common Measurement Termination d) Common Measurement Failure
Radio Link Management.	a) RL Setup b) RL Addition c) RL Deletion d) Unsynchronised RL Reconfiguration e) Synchronised RL Reconfiguration Preparation f) Synchronised RL Reconfiguration Commit g) Synchronised RL Reconfiguration Cancellation
Radio Link Supervision.	a) RL Failure b) RL Restoration
Compressed Mode Control [FDD]	a) Radio Link Setup b) Radio Link Addition c) Compressed Mode Command Preparation d) Unsynchronised Radio Link Reconfiguration e) Synchronised Radio Link Reconfiguration Preparation f) Synchronised Radio Link Reconfiguration Commit g) Synchronised Radio Link Reconfiguration Cancellation h) Compressed Mode Control Command Preparation i) Compressed Mode Commit j) Compressed Mode Cancellation
Measurements on Dedicated Resources	a) Dedicated Measurement Request Initiation b) Dedicated Measurement Reporting c) Dedicated Measurement Termination d) Dedicated Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
Reporting of General Error Situations	Error Indication
Physical Shared Channel Management [TDD]	Physical Shared Channel Reconfiguration

### 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

#### 9.1.3.1 FDD Message

#### 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		9.2.1.58	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>TFCl Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
>Secondary CCPCH		1..<maxnoofS - CCPC Hs>			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	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 ChoiceCh	0..<maxnoofF ACHs>			GLOBAL	reject
⇒>>Common transport channel ID	M		9.2.1.61		–	



<a href="#">&gt;&gt;CCTrCH ID</a>	<a href="#">M</a>		<a href="#">9.2.3.3</a>		<a href="#">=</a>	
>>>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	0..1			GLOBAL	reject
	ChoiceCh					
>>>Common transport channel ID	M		9.2.1.13		-	
<a href="#">&gt;&gt;CCTrCH ID</a>	<a href="#">M</a>		<a href="#">9.2.3.3</a>		<a href="#">=</a>	
>>>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	O		9.2.3.2		-	
>>>>Midamble shift	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>		1			-	
>>>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 CCTrCH.
<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.

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.6.1 FDD Message

### 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	–	
<b>&gt;Secondary CCPCHs to be configured</b>		0..<MaxnoofS CCPCHs>			GLOBAL	reject
>>Common physical channel ID	M		9.2.1.13		–	
>>S-CCPCH Power	M		<a href="#">DL Power</a> 9.2.1.21	<a href="#">DL power</a>	–	
<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

## 9.1.36 RADIO LINK SETUP REQUEST

## 9.1.36.1 FDD message

## 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			GLOBAL	reject

		DCHs>				
>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 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		–	

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

## 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

## 9.1.39 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		<a href="#">9.2.2.79.2.1.25</a>		–	
<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	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		9.2.2.79.2.1.25		–	
>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		–	

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		<a href="#">9.2.2.8</a> <a href="#">9.2.1.26</a>		–	
>CHOICE <i>diversity indication</i>					–	
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.53	Reference RL	–	
>>Non combining					YES	ignore
>>>DCH Information Response		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	M		9.2.1.67		–	
>Diversity Indication	M		<a href="#">9.2.2.89.2.1.26</a>		–	
>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..<maxn oofDCHs>			–	
>>>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

## 9.2.1.17 Criticality diagnostics

The Criticality Diagnostics IE is sent by a Node B or the CRNC when parts of a received message have not been comprehended or are missing. It contains information about which IE was not comprehended or is missing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Criticality Diagnostics</b>				
Procedure Code	O		INTEGER (0..255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
Triggering Message	O		ENUMERATED (initiating message, successful outcome, unsuccessful outcome)	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
Criticality Response	O		ENUMERATED (reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
Transaction Id	O		Transaction ID	
<b>Information Element Criticality Diagnostics</b>		1 to <maxnoof errors>		
>Criticality Response	M		ENUMERATED (reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'ignore' shall never be used.
>IE Id	M		INTEGER (0..65535)	The IE Id of the not understood or missing IE
>Repetition Number	O		INTEGER (0..255)	The repetition number of the not understood IE if applicable

Range bound	Explanation
<i>maxnooferrors</i>	Maximum no. of IE errors allowed to be reported with a single message.

### 9.2.1.28 DSCH Transport Format Set

~~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~~

**Void**

### 9.2.1.29 DSCH Transport Format Combination Set

~~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~~

**Void**

## 9.2.1.46 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Message Type</b>				
>Procedure ID	M	1		
>>Procedure Code	M		ENUMERATED ( COMMON TRANSPORT CHANNEL SETUP, COMMON TRANSPORT CHANNEL RECONFIGURATION, COMMON TRANSPORT CHANNEL DELETION, BLOCK RESOURCE, UNBLOCK RESOURCE, AUDIT REQUIRED, AUDIT, COMMON MEASUREMENT INITIATION, COMMON MEASUREMENT REPORTING, COMMON MEASUREMENT TERMINATION, COMMON MEASUREMENT FAILURE, CELL SETUP, CELL RECONFIGURATION, CELL DELETION, RESOURCE STATUS INDICATION, SYSTEM INFORMATION UPDATE, RL SETUP, RL ADDITION, SYNCHRONISED RL RECONFIGURATION PREPARATION, SYNCHRONISED RL RECONFIGURATION COMMIT, SYNCHRONISED RL RECONFIGURATION CANCELLATION, UNSYNCHRONISED RL RECONFIGURATION, RL DELETION, DL POWER CONTROL, DEDICATED MEASUREMENT INITIATION, DEDICATED MEASUREMENT REPORTING, DEDICATED MEASUREMENT TERMINATION, DEDICATED MEASUREMENT FAILURE, RL FAILURE, RL RESTORATION, COMPRESSED MODE COMMAND, ERROR INDICATION, <u>PHYSICAL SHARED CHANNEL RECONFIGURATION</u> , ...)	
>>Ddmode	M		ENUMERATED (FDD, TDD, Common)	Common = common to FDD and TDD.
>Type of Message	M		ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)	

### 9.2.3.6 Max PRACH Midamble shift

Indicates the maximum number of Midamble shifts to be used in a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max PRACH Midamble Shifts			ENUMERATED (4, 8)	

### 9.2.3.8 Paging Indicator Length

The Paging Indicator Length indicates the number of symbols for Page Indication transmitted in one timeslot (see [19]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Paging Indicator Length			ENUMERATED (2, 4, 8)	number of symbols in the page indicator /see [19]

### 9.2.3.9 PCCPCH Power

Primary CCPCH power is the power that shall be used for transmitting the P CCPCH in a cell. The P CCPCH power is the reference power in a TDD-cell. The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PCCPCH Power			INTEGER(-15..+40)	Unit dBm Granularity 0.1 dB

## 9.2.3.14 PRACH Midamble

The PRACH Midamble indicates if only the Basic Midamble Sequence or also the time-inverted Midamble Sequence is used.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PRACH Midamble			ENUMERATED (Inverted, Direct)	

### 9.2.3.26 Transmission Diversity Applied

Defines if Transmission Diversity on DCHs to be applied in a cell (see[19]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmission Diversity Applied			Boolean	



## 9.3.3 NBAP PDU Content Definitions

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,
    tFCI-Coding              TFCI-Coding,
    punctureLimit          PunctureLimit,
    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,
    midambleShift           MidambleShift,
    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,
  cCTrCH-ID                     CCTrCH-ID,
  dl-TransportFormatSet         TransportFormatSet,
  toAWS                          ToAWS,
  toAWE                          ToAWE,
  iE-Extensions                 ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

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,
  cCTrCH-ID                     CCTrCH-ID,
  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 ::= {
  ...
}
```

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,
uL-DPCH-Information UL-DPCH-InformationIE-RL-SetupRqstTDD OPTIONAL,
}
```

```

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

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

UL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD          CRITICALITY notify TYPE UL-DPCH-InformationList-RL-SetupRqstTDD          PRESENCE mandatory },
    ...
}

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,
    dL-DPCH-Information DL-DPCH-InformationIE-RL-SetupRqstTDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

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

```
DL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationList-RL-SetupRqstTDD PRESENCE mandatory },
...
}
```

```
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
```

```
•
•
•
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,
uL-DPCH-Information    UL-DPCH-InformationList-RL-AdditionRqstTDD    OPTIONAL,
    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,
    midambleShift          MidambleShift,
    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,
    dL-DPCH-Information      DL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

```

partly omitted



## 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
-- R3-001609, CR146r1
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
-- R3-001320,CR113
id-errorIndicationForCommon     INTEGER ::= 35
id-privateMessageForCommon      INTEGER ::= 36

```

```

-- *****
--
-- Extension constants
--
-- *****

```

```

maxPrivateIEs                   INTEGER ::= 65535
maxProtocolExtensions           INTEGER ::= 65535
maxProtocolIEs                  INTEGER ::= 65535

```

```

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

```

```

maxNrOfCodes                     INTEGER ::= 10
-- R3-001609,CR146r1
-- R3-001453,CR159
maxNrOfDLTSs                     INTEGER ::= 15
--R3-001127,CR104
maxNrOfDLCodes                   INTEGER ::= 8
maxNrOfErrors                     INTEGER ::= 256
-- R3-001528,CR121r1
maxNrOfTFs                       INTEGER ::= 32
maxNrOfTFCs                       INTEGER ::= 1024
maxNrOfRLs                       INTEGER ::= 16
maxNrOfRLSets                     INTEGER ::= maxNrOfRLs
--R3-001192,CR109
maxNrOfDPCHs                     INTEGER ::= 240
maxNrOfSCCPCHs                   INTEGER ::= 8
-- R3-001604,CR68r10
maxNrOfCPCHs                     INTEGER ::= 10 -- temporary value
maxNrOfPCPCHs                     INTEGER ::= 64
maxNrOfDCHs                       INTEGER ::= 128
maxNrOfDSCHs                     INTEGER ::= 32
maxNrOfFACHs                     INTEGER ::= 8
--R3-001192,CR109
maxNrOfCCTrCHs                   INTEGER ::= 16
maxNrOfPDSCHs                     INTEGER ::= 256
maxNrOfPUSCHs                     INTEGER ::= 256
maxNrOfPDSCHSets                   INTEGER ::= 256
maxNrOfPUSCHSets                   INTEGER ::= 256
maxNrOfULTSs                       INTEGER ::= 15
maxNrOfUSCHs                       INTEGER ::= 32
-- R3-001604,CR68r10

```

```

maxAPSigNum                INTEGER ::= 16
maxNrOfSlotFormatsPRACH    INTEGER ::= 8
maxCellinNodeB             INTEGER ::= 256
maxCCPinNodeB              INTEGER ::= 256
-- R3-001604,CR68r10
maxCPCHCell                INTEGER ::= 64
-- R3-001528,CR121r1
maxCTFC                    INTEGER ::= 16777215
maxLocalCellinNodeB       INTEGER ::= maxCellinNodeB
-- R3-001604,CR68r10
maxNoofLen                 INTEGER ::= 7
maxRACHCell                INTEGER ::= maxPRACHCell
maxPRACHCell               INTEGER ::= 16
-- R3-001604,CR68r10
maxPCPCHCell              INTEGER ::= 64
maxSCCPCHCell             INTEGER ::= 32
maxSPICHCell              INTEGER ::= 32
-- R3-001528,CR121r1
maxTTI-count              INTEGER ::= 4
maxIBSEG                   INTEGER ::= 16
maxIB                       INTEGER ::= 32
maxFACHCell               INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
-- R3-001528,CR121r1
maxRateMatching           INTEGER ::= 256
maxCodeNrComp-1           INTEGER ::= 256
maxNrOfCodeGroups         INTEGER ::= 256
maxNrOfTFCIGroups         INTEGER ::= 256
maxNrOfTFCI1Combs         INTEGER ::= 512
maxNrOfTFCI2Combs         INTEGER ::= 1024
-- R3-001528,CR121r1
maxNrOfTFCI2Combs-1       INTEGER ::= 1023
maxNrOfSF                  INTEGER ::= 8
-- R3-001609,CR146r1
maxTGPS                    INTEGER ::= 6

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp                INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd        INTEGER ::= 1
-- R3-001529,CR138r1
-- R3-001476,CR150r1
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
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
-- R3-001527,CR137r1	
id-CommunicationControlPortID	INTEGER ::= 40
-- R3-001609,CR146r1	
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
-- R3-001204,CR97r1	
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
-- R3-001204,CR97r1	
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
-- R3-001476,CR150r1	
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70

```

-- R3-001350,CR103r1
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD          INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD      INTEGER ::= 73
-- R3-001350,CR103r1
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD        INTEGER ::= 76
id-DL-DCPCH-InformationItem-RL-AdditionRqstTDD      INTEGER ::= 77
id-DL-DCPCH-InformationList-RL-AdditionRqstTDD    INTEGER ::= 78
id-DL-DCPCH-InformationList-RL-SetupRqstTDD         INTEGER ::= 79
-- R3-001350,CR103r1
id-DL-DCPCH-Information-RL-ReconfPrepFDD           INTEGER ::= 81
id-DL-DCPCH-Information-RL-ReconfRqstFDD           INTEGER ::= 82
id-DL-DCPCH-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
-- R3-001204,CR97r1
id-DSCH-ModifyList-RL-ReconfPrepFDD                 INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD                 INTEGER ::= 113
-- R3-001204,CR97r1
id-FACH-InformationItem-AuditRsp                     INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd            INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp                           INTEGER ::= 118
-- R3-001529,CR138r1
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
-- R3-001611,CR123r3	
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
-- R3-001497,CR124r1	
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
-- R3-001529,CR138r1	
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
-- R3-001529,CR138r1	
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
-- R3-001529,CR138r1	
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
-- R3-001540,CR158	
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
-- R3-001350,CR103r1	

INTEGER ::= 231  
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 INTEGER ::= 233  
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 INTEGER ::= 238  
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 INTEGER ::= 281  
 INTEGER ::= 282



**3G TS 25.433 version 3.2.0 Release 1999**

**422**

id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
-- R3-001350,CR103r1	
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
<del>id-UL-DPCH-InformationList-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 290</del>
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
-- R3-001350,CR103r1	
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

•  
•  
•  
rest omitted

**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 174r1**

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:** April 04, 2000

**Subject:** Corrections to RL Setup Failure description

**Work item:**

<b>Category:</b> <small>(only one category shall be marked with an X)</small>	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 text about the RADIO LINK SETUP FAILURE applies only to FDD.

**Clauses affected:** 8.2.17.3

<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

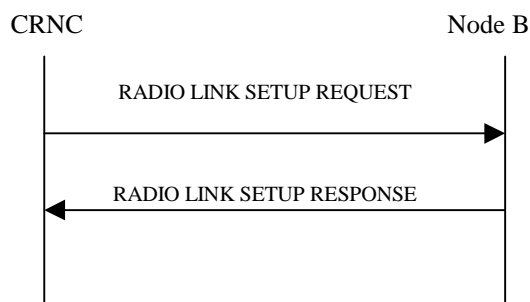
**<----- double-click here for help and instructions on how to create a CR.**

## 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 *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. 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 the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall

- Treat all DCHs with the same value of this IE as a set of co-ordinated DCHs and
- Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", 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. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

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.

[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.]

The Node B shall start the DL transmission using the initial DL power specified in the message. The DL power can then vary accordingly to the fast power control, 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 – 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.]

[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.

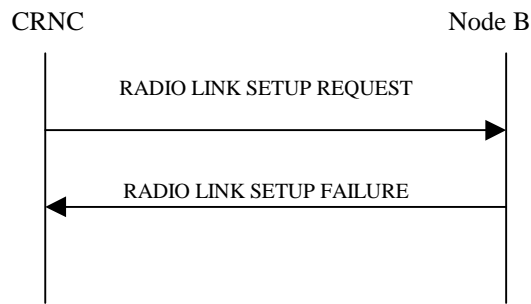
[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

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 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]

### 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*.

[FDD - If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.]

[FDD - If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector IE* set to “selected DCH” the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message]

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- RL Already Activated/allocated

#### **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

-



## 10.3.2 Criticality Information

In the NBAP messages there is criticality information set for individual IEs and/or IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in chapter 10.3.4.

In addition, the criticality information is used in case of the missing IE/IE group abstract syntax error (see subclause 10.3.5).

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

- Reject IE
- Ignore IE and Notify Sender
- Ignore IE

The following rules restrict when sets a restriction to a receiving entity may consider on when an IE, or an IE group or an EP can be considered not comprehended (not implemented), and when action based on criticality information is applicable:

1.- IE or IE group: When one new or modified IE or IE group is implemented for one EP from one a standard versionreleaseversion of a standard, then other new or modified IEs or IE groups specified for that EP in that standard versionreleaseversion shall be considered comprehended bybecome known to the receiving entity (some may still remain unsupported). IEs or IE groups that can be claimed not comprehended originate from such a standard version that is not supported at all for that EP.

Note that no such this restriction is appliedapplicable to a sending entity for constructing messages.

2. EP: Also note that no such rule applies for knowledge of EPs (procedure codes), i.e. tThe knowledge comprehension of different EPs within a standard versionreleaseversion or between different standard versionsreleasesversions is not mandated. Any EP that is not supported eamay be considered not comprehendedunknown (action taken based on criticality), even if another EP from that standard versionreleaseversion is supportedcomprehended, and action based on criticality shall be applied.





## 8.3.7 Downlink Power Control [FDD]

### 8.3.7.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more Radio Links used for the related RRC connection within the Node B. The Downlink Power Control procedure may be initiated by the CRNC at any time when the Node B communication context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B communication context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Control procedure shall no longer be initiated.

### 8.3.7.2 Successful Operation



**Figure 37: Downlink Power Control procedure: Successful Operation**

The procedure is initiated by the CRNC sending a DL POWER CONTROL REQUEST message to the Node B.

The *Power Adjustment Type* IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is *Common*, the Node B shall perform the power adjustment (see below) for all radio links associated with the context identified by the *Node B Communication Context Id* IE using a common DL reference power level.

If the value of the *Power Adjustment Type* IE is *Individual*, the Node B shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Powers per RL.

If the value of the *Power Adjustment Type* IE is *None*, the Node B shall suspend on going power adjustments for all radio links for the UE context.

#### Power Adjustment

The power balancing adjustment superimposed on the inner loop power control adjustment (see Ref. [10]) shall be such that:

$$\sum P_{bal} = (1 - r)(P_{ref} - P_{init}) \text{ with an accuracy of } \pm 0.5 \text{ dB}$$

where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the *Adjustment Period* IE,  $P_{ref}$  is the value of the *DL Reference Power* IE,  $P_{init}$  is the power at the beginning of the adjustment period and  $r$  is given by the *Adjustment Ratio* IE.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE and the DL TX power range set by the CRNC.

The power adjustments shall be repeated for every adjustment period, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted.

### 8.3.7.3 Abnormal Conditions

-

<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>177r3</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	<table border="1" style="margin: 0 auto;"> <tr><td style="text-align: center;"><b>X</b></td></tr> <tr><td style="text-align: center;"> </td></tr> </table>	<b>X</b>	
<b>X</b>				
		Current Version: <b>3.2.0</b> <table border="1" style="margin: 0 auto;"> <tr><td style="text-align: center;">strategic</td></tr> <tr><td style="text-align: center;">non-strategic</td></tr> </table> <span style="font-size: x-small;">(for SMG use only)</span>	strategic	non-strategic
strategic				
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:**      22.08.2000

**Subject:**      Minimum power level of Node B

**Work item:**      \_\_\_\_\_

<b>Category:</b> <i>(only one category shall be marked with an X)</i>	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"/>
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**Reason for change:**

Cr177r3: Quotation are removed for listed typical cause values. The duplication of the word IE is removed. The optionality of the minimum power capability is described in the Resource Status Indication procedure text.

CR177r2: On request of the Iub/Iur SWG, the note in chapter 8.2.13.3 is removed. The notation of the typical cause values are changed to comply with the notation recommendations.

CR177r1: Based on the official version of the spec.

CR177:  
The power values provided are of a very broad value range. Every Node B will have a minimum power capability as well as a maximum power capability. To enable correct setting of power for a connection from RNC, it also need to know the minimum power capability.  
Based on the draft version of the spec.

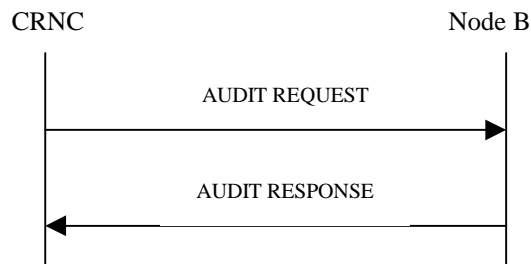
**Clauses affected:**      8.2.7.2, 8.2.12.3, 8.2.13.3, 8.2.15.2, 9.1.17, 9.1.32, 9.2.1.x, 9.3.3 and 9.3.4.

<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:	
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**Other comments:**      \_\_\_\_\_



## 8.2.7.2 Successful Operation



**Figure 10: Audit procedure, Successful Operation**

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

If a *Configuration Generation ID* IE for a cell can not be trusted, the Node B shall set this *Configuration Generation ID* IE = '0'.

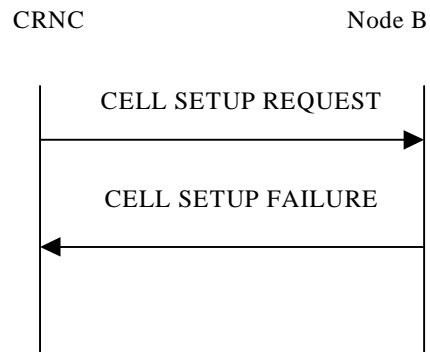
The Node B shall include in the AUDIT RESPONSE message a *Local Cell Information* IE group for each local cell present in the Node B. The Node B shall include the *Maximum DL Power Capability* IE and the *Minimum DL Power Capability* IE ~~if when any of those the~~ values is are known by the Node B.

The Node B shall include the Node B internal resource capability and consumption laws with the "NodeB Information IE group". 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.

The Node B shall include for each local cell present in the node B the Node B internal resource capability and consumption laws within the "Local Cell Information IE group". If the "UL Capacity Credit" IE is not present, then the internal resource capabilities of the local cell are modelled as shared resources between Uplink and Downlink.

The Node B shall include in the AUDIT RESPONSE message a *Cell Information* IE group for each cell in the Node B and information about all common transport channels and all common physical channels for each cell. Node B shall also include in the AUDIT RESPONSE message, a *Communication Control Port Information* IE group for each communication control port in the Node B.

## 8.2.12.3 Unsuccessful Operation



**Figure 11: Cell Setup procedure: Unsuccessful Operation**

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

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

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

The *Cause IE* shall be set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer Cause**

- Unknown C-ID
- Power level not supported
- Node B Resources unavailable

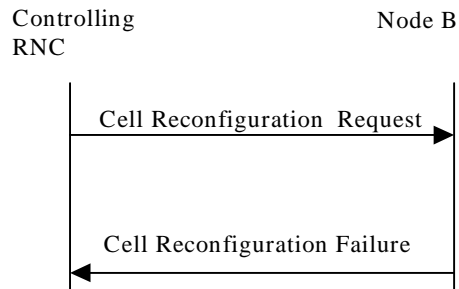
**Protocol Cause**

- Semantic error

**Miscellaneous Cause**

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

## 8.2.13.3 Unsuccessful Operation



**Figure 12: Cell Reconfiguration procedure: Unsuccessful Operation**

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

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

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer Cause**

- Unknown C-ID
- Power level not supported
- Node B Resources unavailable

**Protocol Cause**

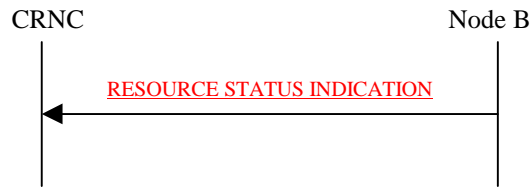
- Semantic error

**Miscellaneous Cause**

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

~~(Note.: Remark received that at WG3#7, in tdoc D63 (secretary minutes), it was stated that the failure message should be added with a list of cause values, with one cause value per failed reconfiguration item. It is not clear what functional impact this have and how it should be coded in the CELL RECONFIGURATION FAILURE message.)~~

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

## 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		–	
>Minimum DL Power Capability	<u>O</u>		<u>9.2.1.x</u>		–	
Criticality diagnostics	O	Criticality	9.2.1.17		YES	ignore

<b>Range bound</b>	<b>Explanation</b>
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

## 9.1.32 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		–	
>>>Minimum DL Power Capability	<u>M</u>		<u>9.2.1.x</u>		=	
>"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		–	
>>>Minimum DL Power Capability	<u>O</u>		<u>9.2.1.x</u>		=	
<b>&gt;&gt;Communication Control Port</b>		0.. <maxCCPi			EACH	ignore

<b>Information</b>		<i>nNodeB</i> >				
>>>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>		<i>0.. &lt;maxCellin NodeB&gt;</i>			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>		<i>0..1</i>			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>		<i>0..1</i>			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>		<i>0..1</i>			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>		<i>0..&lt;maxSC PICHCell&gt;</i>			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>		<i>0..1</i>			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>		<i>0.. 1</i>			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.. <maxFAC HCell>			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.. <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;&gt;RACH Information</b>		0.. <maxPRA 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;&gt;AICH Information</b>		0.. <maxPRA 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;&gt;PCPCH Information</b>		0.. <maxPC PCHCell>			EACH	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;CPCH Information</b>		0..			EACH	ignore

		<maxCPC HCell>				
>>>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.

### 9.2.1.x Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within Node B. The reference point is the antenna connector.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Minimum DL Power Capability</u>			<u>ENUMERATED(0..800)</u>	dBm, granularity 0.1 dB <u>0: -30.0 dBm</u> <u>1: -29.9 dBm</u> <u>...</u> <u>799: 49.9 dBm</u> <u>800: 50.0 dBm</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,
    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,  
MinimumDL-PowerCapability,  
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

```

-- *****
--
-- AUDIT RESPONSE
--
-- *****

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

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeBInformation-AuditRep CRITICALITY ignore TYPE NodeBInformation-AuditRsp PRESENCE mandatory}|
    { ID      id-Cell-InformationList-AuditRsp          CRITICALITY ignore TYPE Cell-InformationList-AuditRsp PRESENCE optional
    }|
    { ID      id-CCP-InformationList-AuditRsp          CRITICALITY ignore TYPE CCP-InformationList-AuditRsp PRESENCE optional }|
    -- CCP (Communication Control Port) --
    { ID      id-Local-Cell-InformationList-AuditRsp    CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp PRESENCE
    optional }|
    { ID      id-CriticalityDiagnostics                CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

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

NodeBInformation-AuditRsp ::= SEQUENCE {
    dl-or-global-capacityCredit          DL-or-Global-CapacityCredit,
    ul-capacityCredit                    UL-CapacityCredit OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                        ProtocolExtensionContainer { { NodeBInformation-AuditRep-ExtIEs } } OPTIONAL,
    ...
}

NodeBInformation-AuditRep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Container {{ Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID      id-Cell-InformationItem-AuditRsp          CRITICALITY ignore TYPE Cell-InformationItem-AuditRsp PRESENCE optional },
    ...
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {
    c-ID          C-ID,
    configurationGenerationID ConfigurationGenerationID,
}

```

```

resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
local-Cell-ID                 Local-Cell-ID,
maximumDL-PowerCapability      MaximumDL-PowerCapability,    -- to do: FFS
minSpreadingFactor            MinSpreadingFactor,          -- to do: FFS
primary-SCH-Information        P-SCH-Information-AuditRsp    OPTIONAL,
secondary-SCH-Information      S-SCH-Information-AuditRsp    OPTIONAL,
primary-CPICH-Information      P-CPICH-Information-AuditRsp  OPTIONAL,
secondary-CPICH-InformationList S-CPICH-InformationList-AuditRsp OPTIONAL,
primary-CCPCH-Information      P-CCPCH-Information-AuditRsp  OPTIONAL,
bCH-Information                BCH-Information-AuditRsp      OPTIONAL,
secondary-CCPCH-InformationList S-CCPCH-InformationList-AuditRsp OPTIONAL,
pCH-Information                PCH-Information-AuditRsp      OPTIONAL,
pICH-Information                PICH-Information-AuditRsp     OPTIONAL,
fACH-InformationList           FACH-InformationList-AuditRsp  OPTIONAL,
pRACH-InformationList           PRACH-InformationList-AuditRsp  OPTIONAL,
rACH-InformationList           RACH-InformationList-AuditRsp  OPTIONAL,
aICH-InformationList           AICH-InformationList-AuditRsp  OPTIONAL,
pCPCH-InformationList          PCPCH-InformationList-AuditRsp  OPTIONAL,
cPCH-InformationList           CPCH-InformationList-AuditRsp  OPTIONAL,
aP-AICH-InformationList        AP-AICH-InformationList-AuditRsp OPTIONAL,
cDCA-ICH-InformationList        CDCA-ICH-InformationList-AuditRsp OPTIONAL,
sCH-Information                SCH-Information-AuditRsp      OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs} } OPTIONAL,
...
}

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

P-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-SCH-InformationIE-AuditRsp }}

P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-SCH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

P-SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { P-SCH-InformationItem-AuditRsp-ExtIEs} } OPTIONAL,
    ...
}

P-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ S-SCH-InformationIE-AuditRsp }}

```

```

S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE S-SCH-InformationItem-AuditRsp PRESENCE mandatory },
  ...
}

S-SCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer { { S-SCH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
  ...
}

S-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

P-CPICH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CPICH-InformationIE-AuditRsp }}

P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-CPICH-InformationItem-AuditRsp PRESENCE mandatory },
  ...
}

P-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer { { P-CPICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
  ...
}

P-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-AuditRsp }}

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-InformationItem-AuditRsp CRITICALITY ignore TYPE S-CPICH-InformationItem-AuditRsp PRESENCE mandatory },
  ...
}

S-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer { { S-CPICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
  ...
}

```

```

S-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-CCPCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE P-CCPCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

P-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { P-CCPCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

P-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-Information-AuditRsp ::= ProtocolIE-Container {{ BCH-InformationIE-AuditRsp }}

BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE BCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

BCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID         CommonTransportChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { BCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

BCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE S-CCPCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

S-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,

```

```

    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { S-CCPCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

S-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Information-AuditRsp ::= ProtocolIE-Container {{ PCH-InformationIE-AuditRsp }}

PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE PCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

PCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { PCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

PCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Information-AuditRsp ::= ProtocolIE-Container {{ PICH-InformationIE-AuditRsp }}

PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PICH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE PICH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

PICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { PICH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

PICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-AuditRsp }}

FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {

```



```

    { ID id-FACH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE FACH-InformationItem-AuditRsp  PRESENCE mandatory },
    ...
}

FACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { FACH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
    ...
}

FACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-AuditRsp }}

PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE PRACH-InformationItem-AuditRsp  PRESENCE mandatory },
    ...
}

PRACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { PRACH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
    ...
}

PRACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE RACH-InformationItem-AuditRsp  PRESENCE mandatory },
    ...
}

RACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { RACH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
    ...
}

```

```

RACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE AICH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

AICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID                CommonPhysicalChannelID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer { { AICH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-AuditRsp }}

PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PCPCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE PCPCH-InformationItem-AuditRsp    PRESENCE optional },
    ...
}

PCPCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID                CommonPhysicalChannelID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer { { PCPCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

PCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-AuditRsp }}

CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE CPCH-InformationItem-AuditRsp    PRESENCE optional },
    ...
}

CPCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID                CommonTransportChannelID,

```

```

resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
iE-Extensions                 ProtocolExtensionContainer { { CPCH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
...
}

CPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-AuditRsp }}

AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-AP-AICH-InformationItem-AuditRsp CRITICALITY ignore TYPE AP-AICH-InformationItem-AuditRsp PRESENCE mandatory },
...
}

AP-AICH-InformationItem-AuditRsp ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
iE-Extensions                 ProtocolExtensionContainer { { AP-AICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
...
}

AP-AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}

CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-CDCA-ICH-InformationItem-AuditRsp CRITICALITY ignore TYPE CDCA-ICH-InformationItem-AuditRsp PRESENCE mandatory },
...
}

CDCA-ICH-InformationItem-AuditRsp ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
iE-Extensions                 ProtocolExtensionContainer { { CDCA-ICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
...
}

CDCA-ICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SCH-Information-AuditRsp ::= ProtocolIE-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-SCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE SCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID                CommonPhysicalChannelID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer { { SCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-CCP-InformationItem-AuditRsp    CRITICALITY    ignore    TYPE    CCP-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
    communicationControlPortID              CommunicationControlPortID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }}    OPTIONAL,
    ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE-AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-AuditRsp    CRITICALITY    ignore    TYPE Local-Cell-InformationItem-AuditRsp    PRESENCE
    mandatory },
    ...
}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
    local-Cell-ID                           Local-Cell-ID,
    dl-or-global-capacityCredit              DL-or-Global-CapacityCredit,
    ul-capacityCredit                        UL-CapacityCredit    OPTIONAL,
    commonChannelsCapacityConsumptionLaw    CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    maximumDL-PowerCapability                MaximumDL-PowerCapability    OPTIONAL,
    minimumDL-PowerCapability              MinimumDL-PowerCapability    OPTIONAL,

```

```
    iE-Extensions          ProtocolExtensionContainer  {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}  OPTIONAL,  
    ...  
}  
Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

```

-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

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

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-IndicationType-ResourceStatusInd          CRITICALITY ignore          TYPE IndicationType-ResourceStatusInd          PRESENCE mandatory
    }|
    { ID id-Cause                                     CRITICALITY ignore          TYPE Cause                                     PRESENCE optional },
    ...
}

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

IndicationType-ResourceStatusInd ::= CHOICE {
    no-Failure                No-Failure-ResourceStatusInd,
    serviceImpacting          ServiceImpacting-ResourceStatusInd,
    cellControl               NULL,
    ...
}

No-Failure-ResourceStatusInd ::= ProtocolIE-Container {{ No-FailureIE-ResourceStatusInd }}

No-FailureIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-No-FailureItem-ResourceStatusInd          CRITICALITY ignore          TYPE No-FailureItem-ResourceStatusInd          PRESENCE mandatory },
    ...
}

No-FailureItem-ResourceStatusInd ::= SEQUENCE {
    nodeB-Information-ResourceStatusInd              NodeB-Information-ResourceStatusInd,
    local-Cell-InformationList                       Local-Cell-InformationList-ResourceStatusInd,
    iE-Extensions                                   ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NodeB-Information-ResourceStatusInd ::= SEQUENCE {
    dl-or-global-capacityCredit                      DL-or-Global-CapacityCredit,
    ul-capacityCredit                                UL-CapacityCredit          OPTIONAL,
}

```

```

commonChannelsCapacityConsumptionLaw      CommonChannelsCapacityConsumptionLaw,
dedicatedChannelsCapacityConsumptionLaw    DedicatedChannelsCapacityConsumptionLaw,
iE-Extensions                              ProtocolExtensionContainer { { NodeB-Information-ResourceStatusInd-ExtIEs } } OPTIONAL,
...
}

NodeB-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }}

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-InformationItem-ResourceStatusInd    PRESENCE mandatory
},
  ...
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
  local-CellID                Local-Cell-ID,
  addorDeleteIndicator        AddorDeleteIndicator,
  dl-or-global-capacityCredit  DL-or-Global-CapacityCredit    OPTIONAL,
  -- This IE is present only if "AddorDeleteIndicator" equals add
  ul-capacityCredit            UL-CapacityCredit        OPTIONAL,
  commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw    OPTIONAL,
  -- This IE is present only if "AddorDeleteIndicator" equals add
  dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw    OPTIONAL,
  -- This IE is present only if "AddorDeleteIndicator" equals add
  maximumDL-PowerCapability      MaximumDL-PowerCapability,
  minimumDL-PowerCapability      MinimumDL-PowerCapability,
  iE-Extensions                  ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ServiceImpacting-ResourceStatusInd ::= ProtocolIE-Container {{ ServiceImpactingIE-ResourceStatusInd }}

ServiceImpactingIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-ServiceImpactingItem-ResourceStatusInd    CRITICALITY ignore TYPE ServiceImpactingItem-ResourceStatusInd    PRESENCE mandatory },
  ...
}

ServiceImpactingItem-ResourceStatusInd ::= SEQUENCE {
  nodeB-Information-Service      NodeB-Information-Service-ResourceStatusInd    OPTIONAL,
  local-Cell-InformationList      Local-Cell-InformationList2-ResourceStatusInd    OPTIONAL,
  cCP-InformationList             CCP-InformationList-ResourceStatusInd    OPTIONAL,
  cell-InformationList            Cell-InformationList-ResourceStatusInd    OPTIONAL,
}

```

```

primary-SCH-Information          P-SCH-Information-ResourceStatusInd      OPTIONAL,
secondary-SCH-Information        S-SCH-Information-ResourceStatusInd      OPTIONAL,
primary-CPICH-Information        P-CPICH-Information-ResourceStatusInd    OPTIONAL,
secondary-CPICH-Information      S-CPICH-InformationList-ResourceStatusInd OPTIONAL,
primary-CCPCH-Information        P-CCPCH-Information-ResourceStatusInd    OPTIONAL,
bCH-Information                  BCH-Information-ResourceStatusInd        OPTIONAL,
secondary-CCPCH-InformationList  S-CCPCH-InformationList-ResourceStatusInd OPTIONAL,
pCH-Information                  PCH-Information-ResourceStatusInd        OPTIONAL,
pICH-Information                  PICH-Information-ResourceStatusInd       OPTIONAL,
fACH-InformationList             FACH-InformationList-ResourceStatusInd   OPTIONAL,
pRACH-InformationList            PRACH-InformationList-ResourceStatusInd  OPTIONAL,
rACH-InformationList             RACH-InformationList-ResourceStatusInd   OPTIONAL,
aICH-InformationList             AICH-InformationList-ResourceStatusInd   OPTIONAL,
pCPCH-InformationList           PCPCH-InformationList-ResourceStatusInd  OPTIONAL,
cPCH-InformationList            CPCH-InformationList-ResourceStatusInd  OPTIONAL,
aP-AICH-InformationList         AP-AICH-InformationList-ResourceStatusInd OPTIONAL,
cDCA-ICH-InformationList        CDCA-ICH-InformationList-ResourceStatusInd OPTIONAL,
sCH-Information                  SCH-Information-ResourceStatusInd        OPTIONAL,
iE-Extensions                    ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs} }    OPTIONAL,
...
}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

NodeB-Information-Service-ResourceStatusInd ::= SEQUENCE {
dl-or-global-capacityCredit      DL-or-Global-CapacityCredit      OPTIONAL,
ul-capacityCredit                 UL-CapacityCredit                 OPTIONAL,
iE-Extensions                    ProtocolExtensionContainer { { NodeB-Information-Service-ResourceStatusInd-ExtIEs} }    OPTIONAL,
...
}

NodeB-Information-Service-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-InformationItem2-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-InformationItem2-ResourceStatusInd    PRESENCE mandatory
},
...
}

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
local-Cell-ID                    Local-Cell-ID,
dl-or-global-capacityCredit      DL-or-Global-CapacityCredit      OPTIONAL,
ul-capacityCredit                 UL-CapacityCredit                 OPTIONAL,
maximum-DL-PowerCapability        MaximumDL-PowerCapability         OPTIONAL,

```



```

| minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE CCP-InformationItem-ResourceStatusInd PRESENCE mandatory },
  ...
}

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
  communicationControlPortID CommunicationControlPortID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Container {{ Cell-InformationItemIE-ResourceStatusInd }}

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Cell-InformationItem-ResourceStatusInd PRESENCE mandatory },
  ...
}

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
  c-ID C-ID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus, --to do: FFS
  maximumDL-PowerCapability MaximumDL-PowerCapability, --to do: FFS
  minSpreadingFactor MinSpreadingFactor,
  iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

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

P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-SCH-InformationIE-ResourceStatusInd }}

```

```

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-InformationItem-ResourceStatusInd  CRITICALITY ignore    TYPE P-SCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
  ...
}

P-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { P-SCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

P-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ S-SCH-InformationIE-ResourceStatusInd }}

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-InformationItem-ResourceStatusInd  CRITICALITY ignore    TYPE S-SCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
  ...
}

S-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { S-SCH-InformationItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
  ...
}

S-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-InformationItem-ResourceStatusInd  CRITICALITY ignore    TYPE P-CPICH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
  ...
}

P-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { P-CPICH-InformationItem-ResourceStatInd-ExtIEs } }    OPTIONAL,
  ...
}

```

```

P-CPICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-ResourceStatusInd
}}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE S-CPICH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

S-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID                CommonPhysicalChannelID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer { { S-CPICH-InformationItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

S-CPICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CCPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE P-CCPCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

P-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID                CommonPhysicalChannelID,
    resourceOperationalState                ResourceOperationalState,
    availabilityStatus                       AvailabilityStatus,
    iE-Extensions                           ProtocolExtensionContainer { { P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ BCH-InformationIE-ResourceStatusInd }}

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE BCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

BCH-InformationItem-ResourceStatusInd ::= SEQUENCE {

```

```

    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { BCH-InformationItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

BCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}

S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE S-CCPCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

S-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PCH-InformationIE-ResourceStatusInd }}

PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE PCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

PCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { PCH-InformationItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

PCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PICH-InformationIE-ResourceStatusInd }}

```

```

PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE PICH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

PICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer { { PICH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

PICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-ResourceStatusInd }}

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE FACH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

FACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonTransportChannelID     CommonTransportChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer { { FACH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

FACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}

PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE PRACH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

PRACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus,
  iE-Extensions                ProtocolExtensionContainer { { PRACH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

```

```

PRACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-ResourceStatusInd }}

RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE RACH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

RACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { RACH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

RACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-ResourceStatusInd }}

AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE AICH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID           CommonPhysicalChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { AICH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }}

PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PCPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE PCPCH-InformationItem-ResourceStatusInd    PRESENCE optional },
    ...
}

PCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID           CommonPhysicalChannelID,
    resourceOperationalState          ResourceOperationalState,
}

```

```

    availabilityStatus      AvailabilityStatus,
    iE-Extensions          ProtocolExtensionContainer { { PCPCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

PCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-ResourceStatusInd }}

CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE CPCH-InformationItem-ResourceStatusInd    PRESENCE optional },
    ...
}

CPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { CPCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

CPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd }}

AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-AP-AICH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE AP-AICH-InformationItem-ResourceStatusInd    PRESENCE optional },
    ...
}

AP-AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { AP-AICH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

AP-AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CDCA-ICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd }}

```

```

CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE CDCA-ICH-InformationItem-ResourceStatusInd  PRESENCE optional },
  ...
}

```

```

CDCA-ICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

```

```

CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ SCH-InformationIE-ResourceStatusInd }}

```

```

SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE SCH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

```

```

SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { SCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

```

```

SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



## 9.3.4 NBAP Information Elements

```
-- =====
-- 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)

MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB

MinSpreadingFactor ::= ENUMERATED {
    v4,
    v16,
    v32,
    v64,
    v128,
    v256,
    v512,
    ...
}

MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
```

```
v8,  
v16,  
v32,  
v64,  
v128,  
v256,  
...  
}  
  
MultiplexingPosition ::= ENUMERATED {  
    fixed,  
    flexible,  
    ...  
}
```



### 9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell within Node B. The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum DL Power Capability			ENUMERATED(0...500)	dBm, granularity 0.1 dB 0: 0 dBm 1: 0.1 dBm ... 499: 49.9 dBm 500: 50.0 dBm

## 9.2.1.40 Maximum Transmission Power

Maximum Transmission Power is maximum power for all downlink channels added together, that is allowed to be used simultaneously in a cell. The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum transmission Power			ENUMERATED(0,..500)	Unit dBm Granularity 0.1 dB 0: 0 dBm 1: 0.1 dBm ... 499: 49.9 dBm 500: 50.0 dBm

## 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. The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH power			Enumerated (-10, .., 50)	Unit dBm Granularity 0.1 dB

<b>CHANGE REQUEST</b>		<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>180r2</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>		Current Version: <b>3.2.0</b>
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:** 2000-08-21

**Subject:** Introduction of DL Codes Not Supported cause value.

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X) 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

**Reason for change:**  
**CR156r2:**  
The cause code is removed as a typical cause value for the Unsynchronised Radio Link Reconfiguration procedure, as it does not change the number of DL codes.  
  
**CR156r1:**  
Clarification that the cause value is only valid for permanent errors are made.  
The cause code is added to Synchronised and Unsynchronised RL Reconfiguration procedures.  
  
**CR156:**  
The error case that the Node B can not support the requested number of codes for a RL is added for the RL Setup Procedure.

**Clauses affected:** 8.2.17.3, 8.3.2.3, 9.2.1.6 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:	

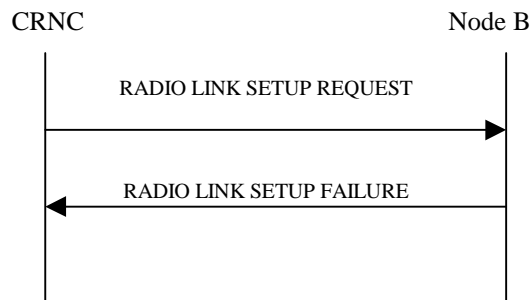
**Other comments:**



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

### 8.2.17.3 Unsuccessful Operation



**Figure 1: 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” 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".]

[FDD - If the Node B cannot support the requested number of DL Codes on a permanent basis, the Node B shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK SETUP FAILURE message with the cause value "Number of DL Codes Not Supported".]

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.
- Number of DL Codes Not Supported

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

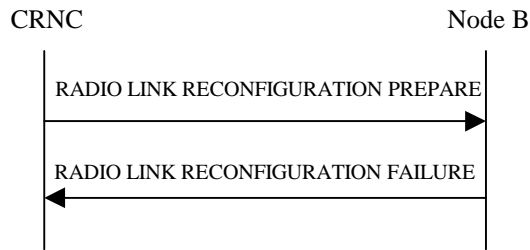
- Semantic error

#### Miscellaneous Cause



- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 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".]

[FDD - If the Node B cannot support the requested number of DL Codes on a permanent basis, the Node B shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Number of DL Codes Not Supported".]

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.
- Number of DL Codes Not Supported

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

9.2.1.6 Cause

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Cause group				
>Radio Network Layer				
>Radio Network Layer Cause	M		Enumerated (unknown C-ID, Cell not available, Power level not supported, UL scrambling code already in use, DL radio resources not available, UL radio resources not available, RL Already Activated/allocated, Node B Resources Unavailable, Insufficient physical channel resources, Measurement not supported for the object, Combining Resources not available, Reconfiguration not allowed, Requested configuration not supported, Synchronization failure, Priority transport channel established,SIB Origination in Node B not Supported, No Closed Loop Timing Adjustment Mode configured, Unspecified, BCCH scheduling error, Measurement Temporarily not Available, Invalid CM Setting, <u>Number of DL Codes Not Supported,</u> ...)	
>Transport Layer				
>Transport Layer Cause	M		Enumerated (Transport link failure, Transmission port not available, Transport resource unavailable, Unspecified, ...)	
>Protocol				
>Protocol Cause			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, ...)	
>Misc				
>Miscellaneous Cause	M		Enumerated (Control processing overload Hardware failure,	

			O&M intervention, Not enough user plane processing resources, Unspecified, ...)	
--	--	--	---	--

## 9.3.4 NBAP Information Elements

```
-- =====  
-- 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-ActivatedOrAlocated,  
    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,  
    number-of-DL-codes-not-supported,  
    ...  
}  
  
CauseTransport ::= ENUMERATED {  
    transport-link-failure,  
    transmission-port-not-available,  
    transport-resource-unavailable,  
    unspecified,  
    ...  
}
```

<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 181r1</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:** 2000-07-04

**Subject:** Power Offset for PICH and AICH in Common Transport Channel Setup

**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 AICH and PICH are aligned with 25.331. Those Power Offsets are -10..+5 in granularity of 1 dB according to 25.331 v3.2.0.

**Clauses affected:** 9.1.3, 9.1.6, 9.2.1.x, 9.2.2.x, 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.

## 9.1.3 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 9.2.1.219.2 .1.x	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 9.2.1.219.2 .2.x		-	
>>>>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 Scrambling Code	M		CPCH 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>&gt;&gt;&gt;&gt;Channel Request Parameters</b>		<i>0..maxAPSig Num</i>			–	
>>>>AP Preamble Signature	M				–	
>>>>AP Sub Channel Number	O				–	
<b>&gt;&gt;&gt;VCAM Mapping Information</b>	C-CA	<i>1..maxnoofLen</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..maxAPSig Num</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
MaxnoofFACHs	Maximum number of FACHs that can be defined on a Secondary CCPCH.
MaxnoofPCPCHs	Maximum number of PCPCHs for a CPCH
MaxnoofLen	Maximum number of Min UL Channelisation Code Length
MaxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH
MaxAPSigNum	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
Secondary CCPCHs					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	–	

<b>&gt;Secondary CCPCH</b>		<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	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		-	
<b>&gt;&gt;FACH</b>	C ChoiceCh	<i>0..&lt;maxnoofFACHs&gt;</i>			GLOBAL	reject
>>>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	<i>0..1</i>			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>		<i>1</i>			-	
>>>>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	O		9.2.3.2		-	
>>>>Midamble shift	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 9.2.1.219.2.1.x		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 CCTrCH.
<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.

## 9.1.6 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
>Secondary CCPCCH					YES	reject
>>FACH parameters		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		–	
>>PCH Parameters		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		–	
>>PICH Parameters		0..1			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>PICH Power	M		DL Power 9.2.1.219.2.1.X	Power to be used on the PICH.	–	
>PRACH					YES	reject
>>PRACH Parameters		0..<MaxPRACHCell>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Preamble Signatures	M		9.2.2.31		–	
>>>Allowed Slot Format Information		0..<Maxno ofSlotFormatsPRACH>			–	
>>>>RACH Slot Format	M		9.2.2.37		–	
>>>>RACH Sub Channel Numbers	O		9.2.2.38		–	
>>AICH Parameters		0..<MaxPRACHCell>			GLOBAL	reject

		<i>ACHCell</i> >				
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>AICH Power	M		<i>DL Power 9.2.1.219.2 .2.x</i>	<i>Power to be used on the AICH.</i>	–	
> <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		<a href="#">9.2.1.219.2.1.x</a>		–	
<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

### 9.2.1.x PICH Power

The PICH Power IE indicates a power level relative to the [FDD-primary CPICH power] [TDD-primary CCPCH power] configured in a cell.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>PICH Power</u>			<u>Enumerated(-10..+5dB)</u>	<u>Step 1dB</u>

### 9.2.2.x AICH Power

The AICH Power IE indicates a power level relative to the primary CPICH power configured in a cell.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>AICH Power</u>			<u>Enumerated(-10..+5dB)</u>	<u>Step 1dB</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-Power,
    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,  
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,  
PICH-Power,  
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

A part has been omitted.

```

-- *****
--
-- 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-ForTFCL-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                   DLPICH-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                        DLAICH-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,
    p02-ForTPC-Bits               PowerOffset,
    p03-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    PCPCHChannelInformationList-CTCH-SetupRqstFDD,
    vCAMMapping-InformationList    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,
    channelRequestParameters        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              APSubChannelNumber    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              Apsubchannelnumber 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                    DL-Power,
    cSICH-Power                      DL-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                   DL-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 ::= {
    ...
}

-- *****
--
-- 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 {
    cTrCH-ID                CTrCH-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,
    midambleShift                    MidambleShift,
    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,
    midambleShift                    MidambleShift,
    tdd-PhysicalChannelOffset         TDD-PhysicalChannelOffset,
    repetitionPeriod                 RepetitionPeriod,
    repetitionLength                 RepetitionLength,
    pagingIndicatorLength             PagingIndicatorLength,
    pICH-Power                       PLPICH-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                         RACH-Parameter-CTCH-SetupRqstTDD,
    iE-Extensions                ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

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 ::= {
    ...
}

```

```

-- *****
--
-- 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                    DLPICH-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                   PLAAICH-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                 DL-Power,
  cSICH-Power                   DL-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                DL-Power,
    iE-Extensions                 ProtocolExtensionContainer { { CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

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

CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID                CRITICALITY reject      TYPE C-ID                PRESENCE mandatory
    }|
    { ID id-ConfigurationGenerationID  CRITICALITY reject      TYPE ConfigurationGenerationID  PRESENCE
    mandatory }|
    { ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD  CRITICALITY reject      TYPE Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD
    PRESENCE optional }|
    { ID id-PICH-Parameters-CTCH-ReconfRqstTDD  CRITICALITY reject      TYPE PICH-Parameters-CTCH-ReconfRqstTDD  PRESENCE optional }|
    { ID id-FACH-ParametersList-CTCH-ReconfRqstTDD  CRITICALITY reject      TYPE FACH-ParametersList-CTCH-ReconfRqstTDD  PRESENCE optional }|
    { ID id-PCH-Parameters-CTCH-ReconfRqstTDD  CRITICALITY reject      TYPE PCH-Parameters-CTCH-ReconfRqstTDD  PRESENCE optional },
    ...
}

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

Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                  CCTrCH-ID,
    secondaryCCPCHList         Secondary-CCPCHList-CTCH-ReconfRqstTDD OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

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

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

Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD

Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  sCCPCH-Power                 DL-Power,
  iE-Extensions                ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
  ...
}

Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  pICH-Power                   DL PICH-Power,
  iE-Extensions                ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
  ...
}

PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-ParametersList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRqstTDD

FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonTransportChannelID     CommonTransportChannelID,
  toAWS                        ToAWS            OPTIONAL,
  toAWE                        ToAWE            OPTIONAL,
  iE-Extensions                ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
  ...
}

FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonTransportChannelID     CommonTransportChannelID,
  toAWS                        ToAWS            OPTIONAL,
  toAWE                        ToAWE            OPTIONAL,
  iE-Extensions                ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
  ...
}

```

```
}  
  
PCH-Parameters-CTCH-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-Power ::= INTEGER (-10..5)
-- Unit dB, Range -10dB .. +5dB, Step +1dB

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

```

```

-- =====
-- P
-- =====

PagingIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8
}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    cRC-Included,
    cRC-NotIncluded,
    ...
}

PCCPCH-Power ::= INTEGER (-150..400)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

PCP-Length ::= ENUMERATED{
    v0,
    v8
}

PDSCH-CodeMapping ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    signallingMethod           CHOICE {
        code-Range             PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
        tFCI-Range             PDSCH-CodeMapping-DSCH-MappingInformationList,
        explicit                PDSCH-CodeMapping-PDSCH-CodeInformationList
    },
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0..maxCodeNrComp-1)

PDSCH-CodeMapping-SpreadingFactor ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
}

```

```

    v256,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF
SEQUENCE {
    spreadingFactor                PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo                 PDSCH-Multi-CodeInfo,
    start-CodeNumber              PDSCH-CodeMapping-CodeNumberComp,
    stop-CodeNumber               PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions                 ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
SEQUENCE {
    maxTFCI-field2-Value          PDSCH-CodeMapping-MaxTFCI-Field2-Value,
    spreadingFactor              PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo               PDSCH-Multi-CodeInfo,
    codeNumber                   PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions               ProtocolExtensionContainer { { PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-MaxTFCI-Field2-Value ::= INTEGER (1..1023)

PDSCH-CodeMapping-PDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
SEQUENCE {
    spreadingFactor                PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo                 PDSCH-Multi-CodeInfo,
    codeNumber                     PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions                 ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-Multi-CodeInfo ::= INTEGER (1..16)

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

```

```
PDSCHSet-ID ::= INTEGER (0..255)
```

```
PICH-Mode ::= ENUMERATED {  
    v18,  
    v36,  
    v72,  
    v144,  
    ...  
}
```

```
PICH-Power ::= INTEGER (-10..5)  
-- Unit dB, Range -10dB .. +5dB, Step +1dB
```

```
PowerAdjustmentType ::= ENUMERATED {  
    none,  
    common,  
    individual  
}
```

```
PowerOffset ::= INTEGER (0..24)  
-- PowerOffset = offset * 0.25  
-- Unit dB, Range 0dB .. +6dB, Step +0.25dB
```

<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 182r1</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:** 2000-07-04

**Subject:** Ambiguous Resource Status Indication and consequences for Audit Response

**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:**

It is not clear to which cell a faulty channel belongs to with the present structure (as the common transport channel ID and the common physical channel ID are unique per cell).

Clarification of procedure text on when to use the different choices (*No Failure* and *Service Impacting*) are made.

The Maximum DL Power Capability in the Cell Information IE-group (marked as FFS) is removed, as that information already exist in the Local Cell Information IE-group. This change is both for Resource Status Indication and Audit Response.

The Minimum Spreading Factor is made optional (instead of FFS), as it can be affected by faults in the Node B. It is moved to the Local Cell IE group from the Cell IE group, due to that it is the equipment that can have a reduction of capabilities.

Some editorial changes are also made.

**Clauses affected:** 8.2.15, 9.1.17, 9.1.32 and 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.

## 8.2.15 Resource Status Indication

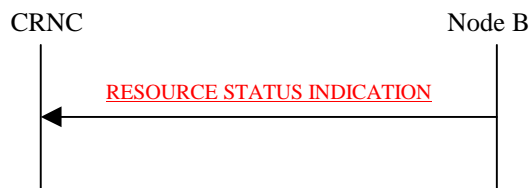
### 8.2.15.1 General

This procedure is used in the following cases:

1. When a Local Cell becomes Existing at the Node B, it shall be made available to the RNC
2. When a Local Cell is to be deleted in Node B, i.e. become Not Existing, the Local Cell shall be withdrawn from the CRNC
3. When the capabilities of the Local Cell change at the Node B
4. When a cell has changed its capability and/or its resource operational state at Node B
5. When common physical channels and/or common transport channels have changed their capabilities at a Node B
6. When a communication control port changed its resource operational state at the Node B
7. When a Node B has changed its resource capability at the Node B and/or the local cells

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

### 8.2.15.2 Successful Operation



**Figure 21: Resource Status Indication procedure: Successful Operation**

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 *Indication Type IE set equal to “No Failure”, 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 *Indication Type IE set equal to “No Failure”, 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 *Indication Type IE set equal to “Service Impacting” and the Local Cell Id.* ~~The Add/Delete Indicator IE shall not be included in the message.~~ *If the DL power capability has changed, the new capability shall be indicated in the DL Power Capability IE. If the DL capability for supporting the minimum spreading factor has changed, the new capability shall be indicated in the Minimum Spreading Factor IE.* 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 *Indication Type IE set equal to “Service Impacting”, the C-ID IE, the Resource Operational State IE and the Availability Status IE.* The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

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 Indication Type IE set equal to "Service Impacting", the Resource Operational State IE and the Availability Status IE set to appropriate values for the affected channel(s) 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 Indication Type IE set equal to "Service Impacting" and 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 Indication Type IE set equal to "Service Impacting" and 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.

### 8.2.15.3 Abnormal Conditions

-

## 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;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		–	
>Minimum Spreading Factor	<u>O</u>		<u>9.2.1.47</u>			
Criticality diagnostics	O		9.2.1.17		YES	ignore

<b>Range bound</b>	<b>Explanation</b>
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

## 9.1.32 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	C-addM		9.2.1.39		–	
>>>Minimum Spreading Factor	C-add		9.2.1.47		=	
>"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		–	
>>>Minimum Spreading Factor	O		9.2.1.47		=	
<b>&gt;&gt;Communication Control Port</b>		0.. <maxCCPi			EACH	ignore



<b>Information</b>		<i>nNodeB</i> >				
>>>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>		<i>0..&lt;maxCellinNodeB&gt;</i>			EACH	ignore
>>>C-ID	M		9.2.1.9		–	
>>>Resource Operational State	<del>M</del>		9.2.1.52		–	
>>>Availability Status	<del>M</del>		9.2.1.2		–	
>>>Maximum DL Power Capability	<del>FFS</del>		<del>9.2.1.39</del>		<del>–</del>	
>>>Minimum Spreading Factor	<del>FFS</del>		<del>9.2.1.47</del>		<del>–</del>	
<b>&gt;&gt;&gt;Primary SCH Information</b>		<i>0..1</i>			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;&gt;&gt;Secondary SCH Information</b>		<i>0..1</i>			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;&gt;&gt;&gt;Primary CPICH Information</b>		<i>0..1</i>			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;&gt;&gt;&gt;&gt;Secondary CPICH Information</b>		<i>0..&lt;maxSCPICHCell&gt;</i>			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;&gt;&gt;&gt;&gt;&gt;Primary CCPCH Information</b>		<i>0..1</i>			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>➤➤➤➤BCH Information</b>		<i>0.. 1</i>			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>➤➤➤➤Secondary CCPCH Information</b>		<i>0..&lt;maxSC CPCHCell &gt;</i>			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>➤➤➤➤PCH Information</b>		<i>0..1</i>			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>➤➤➤➤PICH Information</b>		<i>0..1</i>			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>➤➤➤➤FACH Information</b>		<i>0.. &lt;maxFACHCell&gt;</i>			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>➤➤➤➤PRACH Information</b>		<i>0..&lt;maxPRACHCell&gt;</i>			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>➤➤➤➤RACH Information</b>		<i>0.. &lt;maxPRACHCell&gt;</i>			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		–	

Status						
<b>≥&gt;&gt;AICH Information</b>		0.. <maxPRA 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;&gt;PCPCH Information</b>		0..<maxPC PCHCell>			EACH	ignore
≥>>>Common Physical Channel ID	M				-	
≥>>>Resource Operational State	M				-	
≥>>>Availability Status	M				-	
<b>≥&gt;&gt;CPCH Information</b>		0.. <maxCPC HCell>			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

<b>Range bound</b>	<b>Explanation</b>
<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.

### 9.3.3 NBAP PDU Content Definitions

A Part has intentionally been left out, as it is not affected by this contribution.

```
-- *****
--
-- AUDIT RESPONSE
--
-- *****

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

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeBInformation-AuditRep CRITICALITY ignore TYPE NodeBInformation-AuditRsp PRESENCE mandatory}|
    { ID      id-Cell-InformationList-AuditRsp          CRITICALITY ignore          TYPE      Cell-InformationList-AuditRsp          PRESENCE optional
    }|
    { ID      id-CCP-InformationList-AuditRsp          CRITICALITY ignore          TYPE      CCP-InformationList-AuditRsp          PRESENCE optional }|
    -- CCP (Communication Control Port) --
    { ID      id-Local-Cell-InformationList-AuditRsp    CRITICALITY ignore          TYPE      Local-Cell-InformationList-AuditRsp    PRESENCE
    optional  }|
    { ID      id-CriticalityDiagnostics                CRITICALITY ignore          TYPE      CriticalityDiagnostics                PRESENCE optional },
    ...
}

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

NodeBInformation-AuditRsp ::= SEQUENCE {
    dl-or-global-capacityCredit          DL-or-Global-CapacityCredit,
    ul-capacityCredit                    UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                        ProtocolExtensionContainer {{ NodeBInformation-AuditRep-ExtIEs}}    OPTIONAL,
    ...
}

NodeBInformation-AuditRep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Container {{ Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
```

```

    { ID id-Cell-InformationItem-AuditRsp CRITICALITY ignore TYPE Cell-InformationItem-AuditRsp PRESENCE optional },
    ...
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {
    c-ID ConfigurationGenerationID,
    configurationGenerationID ConfigurationGenerationID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    local-Cell-ID Local-Cell-ID,
maximumDL-PowerCapability MaximumDL-PowerCapability, -- to do: FFS
minSpreadingFactor MinSpreadingFactor, -- to do: FFS
    primary-SCH-Information P-SCH-Information-AuditRsp OPTIONAL,
    secondary-SCH-Information S-SCH-Information-AuditRsp OPTIONAL,
    primary-CPICH-Information P-CPICH-Information-AuditRsp OPTIONAL,
    secondary-CPICH-InformationList S-CPICH-InformationList-AuditRsp OPTIONAL,
    primary-CCPCH-Information P-CCPCH-Information-AuditRsp OPTIONAL,
    bCH-Information BCH-Information-AuditRsp OPTIONAL,
    secondary-CCPCH-InformationList S-CCPCH-InformationList-AuditRsp OPTIONAL,
    pCH-Information PCH-Information-AuditRsp OPTIONAL,
    pICH-Information PICH-Information-AuditRsp OPTIONAL,
    fACH-InformationList FACH-InformationList-AuditRsp OPTIONAL,
    pRACH-InformationList PRACH-InformationList-AuditRsp OPTIONAL,
    rACH-InformationList RACH-InformationList-AuditRsp OPTIONAL,
    aICH-InformationList AICH-InformationList-AuditRsp OPTIONAL,
    pCPCH-InformationList PCPCH-InformationList-AuditRsp OPTIONAL,
    cPCH-InformationList CPCH-InformationList-AuditRsp OPTIONAL,
    aP-AICH-InformationList AP-AICH-InformationList-AuditRsp OPTIONAL,
    cDCA-ICH-InformationList CDCA-ICH-InformationList-AuditRsp OPTIONAL,
    sCH-Information SCH-Information-AuditRsp OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

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

P-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-SCH-InformationIE-AuditRsp }}

P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-SCH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

P-SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { P-SCH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
    ...
}

```

```

}

P-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ S-SCH-InformationIE-AuditRsp }}

S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE S-SCH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

S-SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { S-SCH-InformationItem-AuditRsp-ExtIEs} } OPTIONAL,
    ...
}

S-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CPICH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CPICH-InformationIE-AuditRsp }}

P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-CPICH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

P-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { P-CPICH-InformationItem-AuditRsp-ExtIEs} } OPTIONAL,
    ...
}

P-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-AuditRsp }}

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-InformationItem-AuditRsp CRITICALITY ignore TYPE S-CPICH-InformationItem-AuditRsp PRESENCE mandatory },
    ...
}

```

```

S-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { S-CPICH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

S-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-CCPCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE P-CCPCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

P-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { P-CCPCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

P-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-Information-AuditRsp ::= ProtocolIE-Container {{ BCH-InformationIE-AuditRsp }}

BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE BCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

BCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { BCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

BCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

```



```

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE S-CCPCH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}
S-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer  { { S-CCPCH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}
S-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
PCH-Information-AuditRsp ::= ProtocolIE-Container {{ PCH-InformationIE-AuditRsp }}
PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE PCH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}
PCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonTransportChannelID        CommonTransportChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer  { { PCH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}
PCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
PICH-Information-AuditRsp ::= ProtocolIE-Container {{ PICH-InformationIE-AuditRsp }}
PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE PICH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}
PICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer  { { PICH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

```

```

PICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-AuditRsp }}

FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE FACH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

FACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                      ProtocolExtensionContainer { { FACH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

FACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-AuditRsp }}

PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE PRACH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

PRACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                      ProtocolExtensionContainer { { PRACH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

PRACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE RACH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

RACH-InformationItem-AuditRsp ::= SEQUENCE {

```

```

commonTransportChannelID      CommonTransportChannelID,
resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
iE-Extensions                 ProtocolExtensionContainer { { RACH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
...
}

RACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-AICH-InformationItem-AuditRsp CRITICALITY ignore TYPE AICH-InformationItem-AuditRsp PRESENCE mandatory },
...
}

AICH-InformationItem-AuditRsp ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
iE-Extensions                 ProtocolExtensionContainer { { AICH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
...
}

AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-AuditRsp }}

PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-PCPCH-InformationItem-AuditRsp CRITICALITY ignore TYPE PCPCH-InformationItem-AuditRsp PRESENCE optional },
...
}

PCPCH-InformationItem-AuditRsp ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
iE-Extensions                 ProtocolExtensionContainer { { PCPCH-InformationItem-AuditRsp-ExtIEs } } OPTIONAL,
...
}

PCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-AuditRsp }}

```

```

CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE CPCH-InformationItem-AuditRsp  PRESENCE optional },
  ...
}

CPCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer  { { CPCH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

CPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-AuditRsp }}

AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE AP-AICH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

AP-AICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer  { { AP-AICH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

AP-AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}

CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE CDCA-ICH-InformationItem-AuditRsp  PRESENCE mandatory },
  ...
}

CDCA-ICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer  { { CDCA-ICH-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
  ...
}

```

```

CDCA-ICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SCH-Information-AuditRsp ::= ProtocolIE-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-SCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE SCH-InformationItem-AuditRsp    PRESENCE mandatory },
    ...
}

SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer  { { SCH-InformationItem-AuditRsp-ExtIEs } }    OPTIONAL,
    ...
}

SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCP-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    {ID id-CCP-InformationItem-AuditRsp    CRITICALITY    ignore    TYPE    CCP-InformationItem-AuditRsp    PRESENCE mandatory},
    ...
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
    communicationControlPortID        CommunicationControlPortID,
    resourceOperationalState           ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,
    iE-Extensions                      ProtocolExtensionContainer  {{ CCP-InformationItem-AuditRsp-ExtIEs }}    OPTIONAL,
    ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE-AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID    id-Local-Cell-InformationItem-AuditRsp    CRITICALITY    ignore    TYPE Local-Cell-InformationItem-AuditRsp    PRESENCE
    mandatory},
    ...
}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {

```

local-Cell-ID	Local-Cell-ID,	
dl-or-global-capacityCredit	DL-or-Global-CapacityCredit,	
ul-capacityCredit	UL-CapacityCredit	OPTIONAL,
commonChannelsCapacityConsumptionLaw	CommonChannelsCapacityConsumptionLaw,	
dedicatedChannelsCapacityConsumptionLaw	DedicatedChannelsCapacityConsumptionLaw,	
maximumDL-PowerCapability	MaximumDL-PowerCapability	OPTIONAL,
<u>minSpreadingFactor</u>	<u>MinSpreadingFactor</u>	<u>OPTIONAL,</u>
iE-Extensions	ProtocolExtensionContainer	{{ Local-Cell-InformationItem-AuditRsp-ExtIEs}} OPTIONAL,
...		
}		
Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {		
...		
}		

A Part has intentionally been left out, as it is not affected by this contribution.

```

-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

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

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-IndicationType-ResourceStatusInd          CRITICALITY ignore          TYPE IndicationType-ResourceStatusInd          PRESENCE mandatory
    }|
    { ID id-Cause                                     CRITICALITY ignore          TYPE Cause                                     PRESENCE optional },
    ...
}

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

IndicationType-ResourceStatusInd ::= CHOICE {
    no-Failure          No-Failure-ResourceStatusInd,
    serviceImpacting    ServiceImpacting-ResourceStatusInd,
    cellControl NULL,
    ...
}

No-Failure-ResourceStatusInd ::= ProtocolIE-Container {{ No-FailureIE-ResourceStatusInd }}

No-FailureIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-No-FailureItem-ResourceStatusInd          CRITICALITY ignore          TYPE No-FailureItem-ResourceStatusInd          PRESENCE mandatory },
    ...
}

No-FailureItem-ResourceStatusInd ::= SEQUENCE {
    nodeB-Information-ResourceStatusInd              NodeB-Information-ResourceStatusInd,
    local-Cell-InformationList                       Local-Cell-InformationList-ResourceStatusInd,
    iE-Extensions                                   ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NodeB-Information-ResourceStatusInd ::= SEQUENCE {
    dl-or-global-capacityCredit                      DL-or-Global-CapacityCredit,
    ul-capacityCredit                                UL-CapacityCredit          OPTIONAL,
}

```

```

commonChannelsCapacityConsumptionLaw      CommonChannelsCapacityConsumptionLaw,
dedicatedChannelsCapacityConsumptionLaw   DedicatedChannelsCapacityConsumptionLaw,
iE-Extensions                             ProtocolExtensionContainer { { NodeB-Information-ResourceStatusInd-ExtIEs } } OPTIONAL,
...
}

NodeB-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }}

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-InformationItem-ResourceStatusInd    PRESENCE mandatory
},
  ...
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
  local-CellID                Local-Cell-ID,
  addorDeleteIndicator        AddorDeleteIndicator,
  dl-or-global-capacityCredit  DL-or-Global-CapacityCredit    OPTIONAL,
  -- This IE is present only if "AddorDeleteIndicator" equals add
  ul-capacityCredit            UL-CapacityCredit        OPTIONAL,
  commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw    OPTIONAL,
  -- This IE is present only if "AddorDeleteIndicator" equals add
  dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw    OPTIONAL,
  -- This IE is present only if "AddorDeleteIndicator" equals add
  maximumDL-PowerCapability        MaximumDL-PowerCapability    OPTIONAL,
  minSpreadingFactor                MinSpreadingFactor                OPTIONAL,
  -- This IE is present only if "AddorDeleteIndicator" equals add
  iE-Extensions                  ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ServiceImpacting-ResourceStatusInd ::= ProtocolIE-Container {{ ServiceImpactingIE-ResourceStatusInd }}

ServiceImpactingIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-ServiceImpactingItem-ResourceStatusInd    CRITICALITY ignore    TYPE ServiceImpactingItem-ResourceStatusInd    PRESENCE mandatory
},
  ...
}

ServiceImpactingItem-ResourceStatusInd ::= SEQUENCE {
  nodeB-Information-Service        NodeB-Information-Service-ResourceStatusInd    OPTIONAL,
  local-Cell-InformationList        Local-Cell-InformationList2-ResourceStatusInd    OPTIONAL,

```



```

cCP-InformationList          CCP-InformationList-ResourceStatusInd          OPTIONAL,
cell-InformationList         Cell-InformationList-ResourceStatusInd          OPTIONAL,
primary-SCH-Information      P-SCH-Information-ResourceStatusInd          OPTIONAL,
secondary-SCH-Information    S-SCH-Information-ResourceStatusInd          OPTIONAL,
primary-CPICH-Information    P-CPICH-Information-ResourceStatusInd        OPTIONAL,
secondary-CPICH-Information  S-CPICH-InformationList-ResourceStatusInd     OPTIONAL,
primary-CCPCH-Information    P-CCPCH-Information-ResourceStatusInd        OPTIONAL,
bCH-Information             BCH-Information-ResourceStatusInd            OPTIONAL,
secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd     OPTIONAL,
pCH-Information             PCH-Information-ResourceStatusInd            OPTIONAL,
PICH-Information            PICH-Information-ResourceStatusInd           OPTIONAL,
fACH-InformationList        FACH-InformationList-ResourceStatusInd        OPTIONAL,
pRACH-InformationList        PRACH-InformationList-ResourceStatusInd       OPTIONAL,
rACH-InformationList        RACH-InformationList-ResourceStatusInd        OPTIONAL,
aICH-InformationList        AICH-InformationList-ResourceStatusInd        OPTIONAL,
pCPCH-InformationList       PCPCH-InformationList-ResourceStatusInd       OPTIONAL,
ePCH-InformationList        CPCH-InformationList-ResourceStatusInd        OPTIONAL,
aP-AICH-InformationList     AP-AICH-InformationList-ResourceStatusInd     OPTIONAL,
eDCA-ICH-InformationList     CDCA-ICH-InformationList-ResourceStatusInd    OPTIONAL,
sCH-Information             SCH-Information-ResourceStatusInd            OPTIONAL,
iE-Extensions                ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs} }    OPTIONAL,
...
}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

NodeB-Information-Service-ResourceStatusInd ::= SEQUENCE {
dl-or-global-capacityCredit    DL-or-Global-CapacityCredit    OPTIONAL,
ul-capacityCredit              UL-CapacityCredit              OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer { { NodeB-Information-Service-ResourceStatusInd-ExtIEs} }    OPTIONAL,
...
}

NodeB-Information-Service-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-InformationItem2-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-InformationItem2-ResourceStatusInd    PRESENCE mandatory
},
...
}

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
local-Cell-ID                Local-Cell-ID,
dl-or-global-capacityCredit    DL-or-Global-CapacityCredit    OPTIONAL,

```

ul-capacityCredit	UL-CapacityCredit	OPTIONAL,
maximum-DL-PowerCapability	MaximumDL-PowerCapability	OPTIONAL,
<u>minSpreadingFactor</u>	<u>MinSpreadingFactor</u>	<u>OPTIONAL,</u>

A Part has intentionally been left out, as it is not affected by this contribution.

```

iE-Extensions          ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs } }  OPTIONAL,
...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-CCP-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE CCP-InformationItem-ResourceStatusInd  PRESENCE mandatory },
...
}

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
communicationControlPortID      CommunicationControlPortID,
resourceOperationalState        ResourceOperationalState,
availabilityStatus              AvailabilityStatus,
iE-Extensions                  ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs } }  OPTIONAL,
...
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Container {{ Cell-InformationItemIE-ResourceStatusInd }}

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-Cell-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE Cell-InformationItem-ResourceStatusInd  PRESENCE mandatory },
...
}

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
c-ID                            C-ID,
resourceOperationalState        ResourceOperationalState_____OPTIONAL,
availabilityStatus              AvailabilityStatus,_____OPTIONAL--to do: FFS
maximumDL-PowerCapability  MaximumDL-PowerCapability, --to do: FFS
minSpreadingFactor        MinSpreadingFactor,
primary-SCH-Information    P-SCH-Information-ResourceStatusInd  OPTIONAL,
secondary-SCH-Information  S-SCH-Information-ResourceStatusInd  OPTIONAL,
primary-CPICH-Information  P-CPICH-Information-ResourceStatusInd  OPTIONAL,
secondary-CPICH-Information S-CPICH-InformationList-ResourceStatusInd  OPTIONAL,
primary-CCPCH-Information  P-CCPCH-Information-ResourceStatusInd  OPTIONAL,

```

bCH-Information	BCH-Information-ResourceStatusInd	OPTIONAL,
secondary-CCPCH-InformationList	S-CCPCH-InformationList-ResourceStatusInd	OPTIONAL,
pCH-Information	PCH-Information-ResourceStatusInd	OPTIONAL,
pICH-Information	PICH-Information-ResourceStatusInd	OPTIONAL,
fACH-InformationList	FACH-InformationList-ResourceStatusInd	OPTIONAL,
pRACH-InformationList	PRACH-InformationList-ResourceStatusInd	OPTIONAL,
rACH-InformationList	RACH-InformationList-ResourceStatusInd	OPTIONAL,
aICH-InformationList	AICH-InformationList-ResourceStatusInd	OPTIONAL,
pCPCH-InformationList	PCPCH-InformationList-ResourceStatusInd	OPTIONAL,
cPCH-InformationList	CPCH-InformationList-ResourceStatusInd	OPTIONAL,
aP-AICH-InformationList	AP-AICH-InformationList-ResourceStatusInd	OPTIONAL,
cDCA-ICH-InformationList	CDCA-ICH-InformationList-ResourceStatusInd	OPTIONAL,
sCH-Information	SCH-Information-ResourceStatusInd	OPTIONAL,

ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL, iE-Extensions  
 ...  
 }  
 Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
 }  
 P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-SCH-InformationIE-ResourceStatusInd }}  
 P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
 { ID id-P-SCH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE P-SCH-InformationItem-ResourceStatusInd PRESENCE mandatory },  
 ...  
 }  
 P-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {  
 commonPhysicalChannelID CommonPhysicalChannelID,  
 resourceOperationalState ResourceOperationalState,  
 availabilityStatus AvailabilityStatus,  
 iE-Extensions ProtocolExtensionContainer { { P-SCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,  
 ...  
 }  
 P-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
 }  
 S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ S-SCH-InformationIE-ResourceStatusInd }}  
 S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
 { ID id-S-SCH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE S-SCH-InformationItem-ResourceStatusInd PRESENCE mandatory },  
 ...  
 }  
 S-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {  
 commonPhysicalChannelID CommonPhysicalChannelID,  
 resourceOperationalState ResourceOperationalState,  
 availabilityStatus AvailabilityStatus,  
 ...  
 }

```

    iE-Extensions          ProtocolExtensionContainer { { S-SCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

S-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE P-CPICH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

P-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { P-CPICH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
    ...
}

P-CPICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-ResourceStatusInd }}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE S-CPICH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

S-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { S-CPICH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

S-CPICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CCPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE P-CCPCH-InformationItem-ResourceStatusInd    PRESENCE mandatory },

```

```

}
...
}
P-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}
P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
BCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ BCH-InformationIE-ResourceStatusInd }}
BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE BCH-InformationItem-ResourceStatusInd PRESENCE mandatory },
    ...
}
BCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID         CommonTransportChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { BCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}
BCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}
S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE S-CCPCH-InformationItem-ResourceStatusInd PRESENCE mandatory },
    ...
}
S-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}
S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
PCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PCH-InformationIE-ResourceStatusInd }}

PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE PCH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

PCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer { { PCH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

PCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PICH-InformationIE-ResourceStatusInd }}

PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE PICH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

PICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState          ResourceOperationalState,
  availabilityStatus                AvailabilityStatus,
  iE-Extensions                     ProtocolExtensionContainer { { PICH-InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

PICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-ResourceStatusInd }}

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE FACH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

FACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  resourceOperationalState          ResourceOperationalState,

```

```

    availabilityStatus      AvailabilityStatus,
    iE-Extensions           ProtocolExtensionContainer { { FACH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

FACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}

PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE PRACH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

PRACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { PRACH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

PRACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-ResourceStatusInd }}

RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE RACH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

RACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { RACH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

RACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-ResourceStatusInd }}

AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE AICH-InformationItem-ResourceStatusInd    PRESENCE mandatory },
    ...
}

```

```

}

AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { AICH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }}

PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PCPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE PCPCH-InformationItem-ResourceStatusInd    PRESENCE optional },
    ...
}

PCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { PCPCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

PCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-ResourceStatusInd }}

CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE CPCH-InformationItem-ResourceStatusInd    PRESENCE optional },
    ...
}

CPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { CPCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

CPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd
}}

AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE AP-AICH-InformationItem-ResourceStatusInd  PRESENCE optional },
  ...
}

AP-AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { AP-AICH-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

AP-AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CDCA-ICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd
}}

CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE CDCA-ICH-InformationItem-ResourceStatusInd  PRESENCE optional },
  ...
}

CDCA-ICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                    ProtocolExtensionContainer { { CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs } }  OPTIONAL,
  ...
}

CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ SCH-InformationIE-ResourceStatusInd }}

SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE SCH-InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
}

```

```
    iE-Extensions
    ...
}
SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

A Part has intentionally been left out, as it is not affected by this contribution.

<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>183r1</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 <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:** 2000-07-05

**Subject:** Handling of two non supported non core functionalities

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X)  
 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

**Reason for change:**

CR183r1:  
The SIB origination in Node B is removed from the contribution.

CR183:  
It is unclear how Node B shall react when the RNC request a non core function that the Node B does not support.

The two functions that are addressed by this contribution are SSdT and SIB Creation at Node B.

For SSdT, The description of SSdT activation is missing in the RL Setup procedure. A clarification is made to the RL Addition procedure.

For SIB origination in Node B, the non core functionality is indicated.

**Clauses affected:** 8.2.17 and 8.3.1.

**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:**

This contribution does not solve the open issue. It makes corrections for two functions. The open issue contains some fundamental questions that needs to be discussed:

- What is “non core functionality”?
- Should non core functionality have general or specific cause values? Even if that has to be decided case by case, can a general recommendation be made?



help.doc

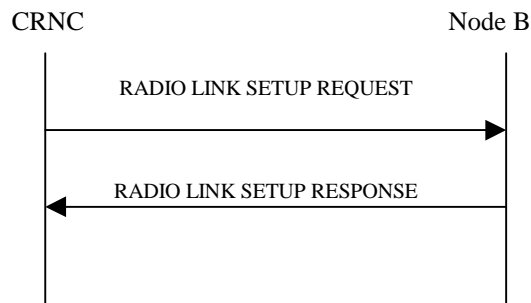
<----- double-click here for help and instructions on how to create a CR.

## 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.

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 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.

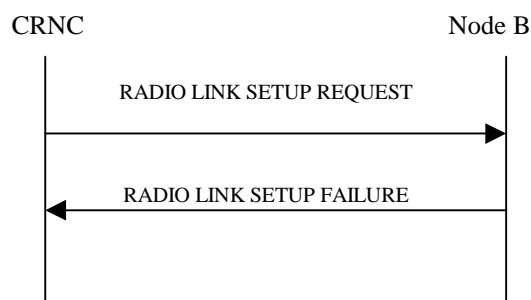
After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].

[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]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE, the Node B may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE.]

[FDD - Irrespective of SSDT activation, the Node B shall include in the RADIO LINK SETUP RESPONSE message an indication concerning the capability to support SSDT on this RL. Only if the RADIO LINK SETUP REQUEST message requested SSDT activation and the RADIO LINK SETUP RESPONSE message indicates that the SSDT capability is supported for this RL, SSDT is activated in the Node B.]

### 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” 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

-



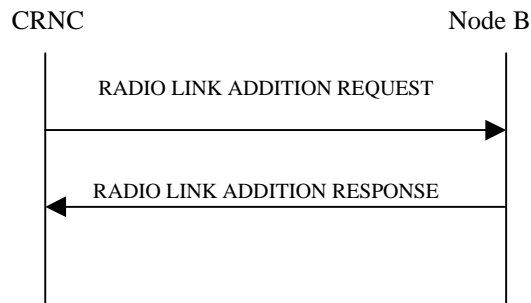
## 8.3.1 Radio Link Addition

### 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 [SSDT](#) 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.

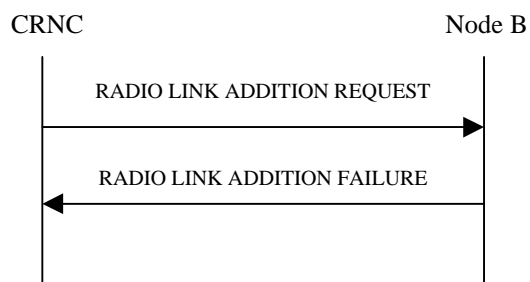
[FDD - Irrespective of SSdT activation, the Node B shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSdT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSdT activation and the RADIO LINK ADDITION RESPONSE message indicates 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 – 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**

-

## 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 184r1**

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:** 3<sup>rd</sup> July 2000

**Subject:** Removal of paging procedure from NBAP

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X) 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

**Reason for change:** In section 4.1, it has been mentioned that the NBAP covers the paging procedure. This CR removes this statement.

**Clauses affected:** 4.1

**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.

## 4.1 Procedure Specification Principles

Node B Application Part, NBAP, includes common procedures and dedicated procedures. It covers procedures for ~~paging distribution~~, broadcast system information, request / complete / release of dedicated resources and management of logical resources (logical O&M [1]).

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

**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 185 R2**

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:** \_\_\_\_\_

**Subject:** **Alignment to RRC CRs 363 and 362**

**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:**

- **Alignment to RRC CR 363 (R2-001173):**  
 The value range for the IB\_SG\_POS and IB\_SG\_REP has been increased to 4094 and 4096 respectively.
- **Alignment to RRC CR 362 (R2-001252):**  
 The RRC CR 362 changes the scheduling of the system information blocks due to the size of the SIB 16. It is now allowed to schedule system information blocks more than once with different content. The scheduling information is provided for each occurrence of the system information block. However, the multiple occurrence is currently limited to SIB16 in the RRC specification.  
 This CR proposes a more generic approach in order to prepare for multiple occurrences of all IB types in one SYSTEM INFORMATION UPDATE REQUEST message.  
 The Range Bound for the maxIB is increased from 32 to 64 in order to accommodate for multiple occurrences of the SIB 16 in the SYSTEM INFORMATION UPDATE REQUEST message.
- **Additional corrections:**
  - The SIB 15 and 16 are added to IB Type IE definition.
  - Additional indentation in the Choice.
  - IB and Deletion in the Choice are changed to italic.

**Clauses affected:** **8.2.16.2, 8.2.16.3, 9.1.33, 9.2.1.33, 9.2.1.34, 9.2.1.35, 9.2.1.xx, 9.3.3, 9.3.4, and 9.3.7**

**Other specs affected:**

Other 3G core specifications  
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:
	→ List of CRs:

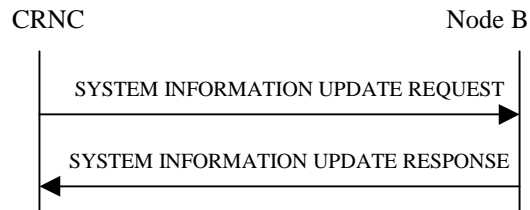


**Other comments:**



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

## 8.2.16.2 Successful Operation



**Figure 22: System Information Update procedure: Successful Operation**

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

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

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

### Information Block addition

If the SYSTEM INFORMATION UPDATE REQUEST message includes segments of a certain MIB/SIB, the Node-B shall assume that all segments for that Information Block are included in the message and ordered with increasing Segment Index (starting from 0).

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

$$- \text{SFN mod IB\_SG\_REP} = \text{IB\_SG\_POS}$$

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

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

If the SIB Originator IE value is set to 'Node B' the Node B shall create the SIB segment of the SIB type given by the IB Type IE and autonomously update the SIB segment and apply the scheduling and repetition as given by the IB SG REP IE and IB SG POS IE.

SIBs originating from the Node B can only be SIBs containing information that the Node B can obtain on its own.

### Information Block deletion

If the *IB Deletion Indicator* IE value is set to 'Deletion' the Node B shall delete the IB ~~of the type~~ indicated by the *IB Type* IE and *IB OC ID* IE from the transmission schedule on BCCH.

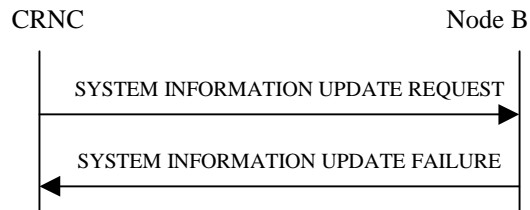
### Information Block update

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

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



### 8.2.16.3 Unsuccessful Operation



**Figure 23: System Information Update procedure: Unsuccessful Operation**

If the Node B is unable to update the physical channel scheduling cycle according to all the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond with a SYSTEM INFORMATION UPDATE FAILURE message with an appropriate cause value. No changes to the BCCH schedule are made in this case.

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

Node B shall reject the requested update with cause value “BCCH scheduling error” if:

- after having handled a certain MIB/SIB information IE group repetition, an illegal BCCH schedule results;
- if a MIB/SIB information IE group repetition includes an *IB SG REP* IE or an *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SIB information IE group repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated;
- if a MIB/SIB information IE group repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is no IB in the BCCH schedule with the same IB Type and IB OC ID;
- if a MIB/SIB information IE group repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID but it is requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SIB information IE group repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated;

Possible cause values are:

#### Radio Network Layer Cause

- Insufficient physical channel resources
- Unknown C-ID
- SIB Origination in Node B not Supported
- BCCH scheduling error

#### Miscellaneous Cause

- Hardware failure
- Control Processing overload
- O&M Intervention
- Unspecified

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

### 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/SIBInformation</b>		1..maxIB			GLOBAL	reject
>IB Type	M		9.2.1.35	<del>In one message, every IB Type can only be deleted once and/or added once.</del>	-	
>IB OC ID	<u>M</u>		<u>9.2.1.xx</u>	<u>In one message, every occurrence of IB Type can only be deleted once and/or added once.</u>	-	
>CHOICE <del>IB-IB</del> DeletionIndicator						
>>NoDeletion					YES	reject
>>>SIB Originator	C-NotMIB		9.2.1.55		-	
>>>IB SG REP	O		9.2.1.34		-	
>>>Segment Information		1..maxIBSEG			GLOBAL	reject
>>>>IB SG POS	O		9.2.1.33		-	
>>>>IB SG DATA	C – CRNCOri nation		9.2.1.32		-	
>> <del>Deletion</del> Deletion			NULL			

Range bound	Explanation
1..maxIB	Maximum number of information Blocks supported in one message.
1..maxIBSEG	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOri nation	The IE shall be present if the SIB Originator IE is set to 'CRNC'
NotMIB	This IE shall be present if the IB Type is not equal to "MIB"

## 9.2.1.33 IB\_SG\_POS

First position of an Information Block segment in the SFN cycle (IB\_SG\_POS < IB\_SG\_REP).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG POS			INTEGER (0.. <a href="#">20464094</a> )	Only even positions allowed. Reference [18]

## 9.2.1.34 IB\_SG\_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when  $SFN \bmod IB\_SG\_REP = IB\_SG\_POS$ .

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG REP			ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096)	Repetition period for the IB segment in frames

### 9.2.1.35 IB Type

The IB type identifies a specific system information block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB Type			Enumerated (MIB, SIB1, SIB2 SIB3, SIB4, SIB5, SIB6, SIB7, SIB8, SIB9, SIB10, SIB11, SIB12, SIB13, SIB13.1 SIB13.2, SIB13.3, SIB13.4, SIB14, <u>SIB15</u> , <u>SIB16</u> , ...)	

9.2.1.XX IB\_OC\_ID

The IB\_OC\_ID identifies the occurrence of a specific Information Block.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>IB_OC_ID</u>			<u>INTEGER (1.. 16)</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,
    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-OC-ID,
IB-SG-DATA,
IB-SG-POS,
IB-SG-REP,
IB-Type,
IndicationType,
LimitedPowerIncrease,
Local-Cell-ID,

```

<Editor's note: Parts of the ASN.1 module is skipped.>

```

-- *****
--
-- SYSTEM INFORMATION UPDATE REQUEST
--
-- *****

```

```

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

```



```

}

SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory
  }|
  { ID id-BCCH-ModificationTime CRITICALITY reject TYPE BCCH-ModificationTime PRESENCE optional }|
  { ID id-MIB-SIB-InformationList-SystemInfoUpdateRqst CRITICALITY reject TYPE MIB-SIB-InformationList-SystemInfoUpdateRqst
  PRESENCE mandatory },
  ...
}

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

MIB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SIB-InformationItem-SystemInfoUpdateRqst

MIB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
  iB-Type IB-Type,
  iB-OC-ID IB-OC-ID,
  deletionIndicator DeletionIndicator-SystemInfoUpdate,
  iE-Extensions ProtocolExtensionContainer { { MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs } } OPTIONAL,
  ...
}

MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DeletionIndicator-SystemInfoUpdate ::= CHOICE {
  no-Deletion No-Deletion-SystemInfoUpdate,
  yes-Deletion NULL,
  ...
}

No-Deletion-SystemInfoUpdate ::= ProtocolIE-Container {{ No-DeletionIE-SystemInfoUpdate }}

No-DeletionIE-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
  { ID id-No-DeletionItem-SystemInfoUpdate CRITICALITY reject TYPE No-DeletionItem-SystemInfoUpdate PRESENCE mandatory },
  ...
}

No-DeletionItem-SystemInfoUpdate ::= SEQUENCE {
  sIB-Originator SIB-Originator OPTIONAL,
  -- This IE shall be present if the IB-Type is not equal to "MIB"
  iB-SG-REP IB-SG-REP OPTIONAL,
  segmentInformationList SegmentInformationList-SystemInfoUpdate,
  iE-Extensions ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs } } OPTIONAL,
  ...
}

```

```

No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}

SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    { ID id-SegmentInformationListIE-SystemInfoUpdate    CRITICALITY reject    TYPE SegmentInformationListIE-SystemInfoUpdate    PRESENCE mandatory },
    ...
}

SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
    iB-SG-POS                IB-SG-POS                OPTIONAL,
    iB-SG-DATA                IB-SG-DATA                OPTIONAL,
    -- This IE shall be present if the SIB Originator IE is set to "CRNC"
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

<Editor's note: The rest of the ASN.1 module is skipped.>

## 9.3.4 NBAP Information Elements

```

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

```

```

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

```

<Editor's note: Parts of the ASN.1 module is skipped.>

```

-- =====
-- I
-- =====

```

```

| IB-OC-ID ::= INTEGER (1..16)

```

```

IB-SG-DATA ::= BIT STRING

```

```

| IB-SG-POS ::= INTEGER (0..20464094)

```

```

-- Only even positions allowed

```

```

| IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}

```

```

IB-Type ::= ENUMERATED {
  mib,
  sib1,
  sib2,
  sIB3,
  sIB4,
  sIB5,
  sIB6,
  sIB7,
  sIB8,
  sIB9,
  sIB10,
  sIB11,
  sib12,
  sIB13,
  sIB13dot1,
  sIB13dot2,
  sIB13dot3,
  sIB13dot4,
  sIB14,

```

```
| sIB15,  
| sIB16,  
| ...  
| }  
  
IndicationType ::= ENUMERATED {  
    noFailure,  
    serviceImpacting,  
    ...  
}  
  
ITPPRM ::= ENUMERATED {  
    mode-0,  
    mode-1  
}  
  
-- =====  
-- J  
-- =====
```

<Editor's note: The rest of the ASN.1 module is skipped.>

```

--9.3.7 Constant Definitions for NBAP
-- *****
--
-- Constant definitions
--
-- *****

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

BEGIN

<Editor's note: Parts of the ASN.1 module is skipped.>

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

maxNrOfCodes                INTEGER ::= 10
maxNrOfDLTSs                INTEGER ::= 15
maxNrOfDLCodes              INTEGER ::= 8
maxNrOfErrors                INTEGER ::= 256
maxNrOfTFs                   INTEGER ::= 32
maxNrOfTFCs                  INTEGER ::= 1024
maxNrOfRFLs                  INTEGER ::= 16
maxNrOfRFLSets               INTEGER ::= maxNrOfRFLs
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

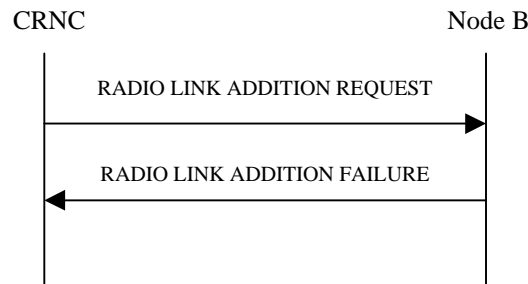
```

```
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 ::= 3264
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
```

<Editor's note: The rest of the ASN.1 module is skipped.>



### 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” ].

If the Node B is not able to establish the requested RLs due to that the Node B has received a RADIO LINK RECONFIGURATION COMMIT and the indicated reconfiguration CFN has not yet elapsed, the Node B shall indicate this with the cause value “Reconfiguration CFN not elapsed” in the RADIO LINK ADDITION FAILURE message.

[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.
- Reconfiguration CFN not elapsed

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure



## 9.2.1.6 Cause

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Cause group				
>Radio Network Layer				
>Radio Network Layer Cause	M		Enumerated (unknown C-ID, Cell not available, Power level not supported, UL scrambling code already in use, DL radio resources not available, UL radio resources not available, RL Already Activated/allocated, Node B Resources Unavailable, Insufficient physical channel resources, Measurement not supported for the object, Combining Resources not available, Reconfiguration not allowed, Requested configuration not supported, Synchronization failure, Priority transport channel established,SIB Origination in Node B not Supported, No Closed Loop Timing Adjustment Mode configured, Unspecified, BCCH scheduling error, Measurement Temporarily not Available, Invalid CM Setting, <u>Reconfiguration CFN not elapsed.</u> ...)	
>Transport Layer				
>Transport Layer Cause	M		Enumerated (Transport link failure, Transmission port not available, Transport resource unavailable, Unspecified, ...)	
>Protocol				
>Protocol Cause			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, ...)	
>Misc				
>Miscellaneous Cause	M		Enumerated (Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources,	

			Unspecified, ...)	
--	--	--	----------------------	--

```
-- =====
-- 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,
    reconfiguration-CFN-not-elapsed,
    ...
}

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

**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 187r3**

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:** June 2000

**Subject:** NBAP Reset Procedure

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X) 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

**Reason for change:** In some abnormal situations, there is a need to remove one or more communication contexts in the CRNC or Node B. This CR proposes a Reset procedure in NBAP to address this issue.  
Both the CRNC and Node B may initiate the procedure.

Additions/changes in r3: The “consequences if not approved” on the CR cover sheet is updated (completed).

Additions/changes in r1: (highlighted in yellow)

- The release of radio resources in the CRNC (and Node B) has been clarified
- The release of the transport layer resources has been clarified ([at least] the node receiving the RESET REQUEST message shall initiate release of the user plane transport bearer).
- The handling when reset is received for a context for which a dedicated procedure is ongoing is clarified (the ongoing procedure is aborted)

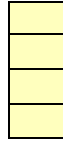
Additions/changes in r1: ASN.1 added.

Consequences if this CR is not approved:  
In some error/failure situations there will be a misalignment in terms of the “existing” contexts in the CRNC and the Node B and thus which radio links/radio link sets that may carry traffic.

**Clauses affected:** 4.1, 7, 8.1, 8.2.xx (New), 9.1.xx (New), 9.1.xx (New), 9.2.1.46, 9.3.2, 9.3.3, and 9.3.7.

**Other specs affected:** Other 3G core specifications  → List of CRs:   
Other GSM core  → List of CRs:

specifications  
MS test specifications  
BSS test specifications  
O&M specifications



→ List of CRs:  
→ List of CRs:  
→ List of CRs:



**Other  
comments:**

Similar CR for RNSAP may be needed as well.



help.doc

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

## 4.1 Procedure Specification Principles

Node B Application Part, NBAP, includes common procedures and dedicated procedures. It covers procedures for paging distribution, broadcast system information, request / complete / release of dedicated resources and management of logical resources (logical O&M [1]).

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

---

## 7 Functions of NBAP

The NBAP protocol has the following functions:

- Cell Configuration Management. This function gives the CRNC the possibility to manage the cell configuration information in a Node B.
- Common Transport Channel Management. This function gives the CRNC the possibility to manage the configuration of Common Transport Channels in a Node B.
- System Information Management. This function gives the CRNC the ability to manage the scheduling of System Information to be broadcast in a cell.
- Resource Event Management. This function gives the Node B the ability to inform the CRNC about the status of Node B resources.
- Configuration Alignment. This function gives the CRNC and the Node B the possibility to verify and enforce that both nodes has the same information on the configuration of the radio resources.
- Measurements on Common Resources. This function allows the CRNC to initiate measurements in the Node B. The function also allows the Node B to report the result of the measurements.
- Radio Link Management. This function allows the CRNC to manage radio links using dedicated resources in a Node B.
- Radio Link Supervision. This function allows the CRNC to report failures and restorations of a Radio Link.
- Compressed Mode Control [FDD]. This function allows the CRNC to control the usage of compressed mode in a Node B.
- Measurements on Dedicated Resources. This function allows the CRNC to initiate measurements in the NodeB. The function also allows the NodeB to report the result of the measurements.
- DL Power Drifting Correction (FDD). This function allows the CRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links.
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.

The mapping between the above functions and NBAP elementary procedures is shown in the table below.

**Table 1: Mapping between functions and NBAP elementary procedures**

Function	Elementary Procedure(s)
Cell Configuration Management	a) Cell Setup b) Cell Reconfiguration c) Cell Deletion
Common Transport Channel Management	a) Common Transport Channel Setup b) Common Transport Channel Reconfiguration c) Common Transport Channel Deletion
System Information Management	System Information Update
Resource Event Management	a) Block Resource b) Unblock Resource c) Resource Status Indication
Configuration Alignment	a) Audit Required b) Audit c) <b>Reset</b>
Measurements on Common Resources	a) Common Measurement Initiation b) Common Measurement Reporting c) Common Measurement Termination d) Common Measurement Failure
Radio Link Management.	a) RL Setup b) RL Addition c) RL Deletion d) Unsynchronised RL Reconfiguration e) Synchronised RL Reconfiguration Preparation f) Synchronised RL Reconfiguration Commit g) Synchronised RL Reconfiguration Cancellation
Radio Link Supervision.	a) RL Failure b) RL Restoration
Compressed Mode Control [FDD]	a) Compressed Mode Preparation b) Compressed Mode Commit c) Compressed Mode Cancellation
Measurements on Dedicated Resources	a) Measurement Request b) Measurement Reporting c) Measurement Termination d) Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
Reporting of General Error Situations	Error Indication

---

## 8 NBAP Procedures

### 8.1 Elementary Procedures

NBAP procedures are divided into common procedures and dedicated procedures.

- NBAP common procedures are procedures that request initiation of a UE context for a specific UE in Node B or are not related to a specific UE. NBAP common procedures also incorporate logical O&M [1] procedures.
- NBAP dedicated procedures are procedures that are related to a specific UE context in Node B. This UE context is identified by a UE context identity.

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

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



Table 1: Class 1

Elementary Procedure	Message	Successful Outcome	Unsuccessful Outcome	
		Response message	Response message	Timer
Cell Setup	CELL SETUP REQUEST	CELL SETUP RESPONSE	CELL SETUP FAILURE	
Cell Reconfiguration	CELL RECONFIGURATION REQUEST	CELL RECONFIGURATION RESPONSE	CELL RECONFIGURATION FAILURE	
Cell Deletion	CELL DELETION REQUEST	CELL DELETION RESPONSE		
Common Transport Channel Setup	COMMON TRANSPORT CHANNEL SETUP REQUEST	COMMON TRANSPORT CHANNEL SETUP RESPONSE	COMMON TRANSPORT CHANNEL SETUP FAILURE	
Common Transport Channel Reconfiguration	COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST	COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE	COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE	
Common Transport Channel Deletion	COMMON TRANSPORT CHANNEL DELETION REQUEST	COMMON TRANSPORT CHANNEL DELETION RESPONSE		
Physical Shared Channel Reconfigure [TDD]	PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST	PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE	PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE	
Audit	AUDIT REQUEST	AUDIT RESPONSE		
Block Resource	BLOCK RESOURCE REQUEST	BLOCK RESOURCE RESPONSE	BLOCK RESOURCE FAILURE	
Radio Link Setup	RADIO LINK SETUP REQUEST	RADIO LINK SETUP RESPONSE	RADIO LINK SETUP FAILURE	
System Information Update	SYSTEM INFORMATION UPDATE REQUEST	SYSTEM INFORMATION UPDATE RESPONSE	SYSTEM INFORMATION UPDATE FAILURE	
Common Measurement Initiation	COMMON MEASUREMENT INITIATION REQUEST	COMMON MEASUREMENT INITIATION RESPONSE	COMMON MEASUREMENT INITIATION FAILURE	
Radio Link Addition	RADIO LINK ADDITION REQUEST	RADIO LINK ADDITION RESPONSE	RADIO LINK ADDITION FAILURE	
Radio Link Deletion	RADIO LINK DELETION REQUEST	RADIO LINK DELETION RESPONSE		
Synchronised Radio Link Reconfiguration Preparation	RADIO LINK RECONFIGURATION PREPARE	RADIO LINK RECONFIGURATION READY	RADIO LINK RECONFIGURATION FAILURE	
Unsynchronised Radio Link Reconfiguration	RADIO LINK RECONFIGURATION REQUEST	RADIO LINK RECONFIGURATION RESPONSE	RADIO LINK RECONFIGURATION FAILURE	
Dedicated Measurement Initiation	DEDICATED MEASUREMENT INITIATION REQUEST	DEDICATED MEASUREMENT INITIATION RESPONSE	DEDICATED MEASUREMENT INITIATION FAILURE	
<a href="#">Reset</a>	<a href="#">RESET REQUEST</a>	<a href="#">RESET RESPONSE</a>		

**Table 2: Class 2**

<b>Elementary Procedure</b>	<b>Message</b>
Resource Status Indication	RESOURCE STATUS INDICATION
Audit Required	AUDIT REQUIRED INDICATION
Common Measurement Reporting	COMMON MEASUREMENT REPORT
Common Measurement Termination	COMMON MEASUREMENT TERMINATION REQUEST
Common Measurement Failure	COMMON MEASUREMENT FAILURE INDICATION
Synchronised Radio Link Reconfiguration Commit	RADIO LINK RECONFIGURATION COMMIT
Synchronised Radio Link Reconfiguration Cancellation	RADIO LINK RECONFIGURATION CANCELLATION
Radio Link Failure	RADIO LINK FAILURE INDICATION
Radio Link Restoration	RADIO LINK RESTORE INDICATION
Dedicated Measurement Reporting	DEDICATED MEASUREMENT REPORT
Dedicated Measurement Termination	DEDICATED MEASUREMENT TERMINATION REQUEST
Dedicated Measurement Failure	DEDICATED MEASUREMENT FAILURE INDICATION
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode Control Command	COMPRESSED MODE COMMAND
Unblock Resource	UNBLOCK RESOURCE INDICATION
Error Indication	ERROR INDICATION

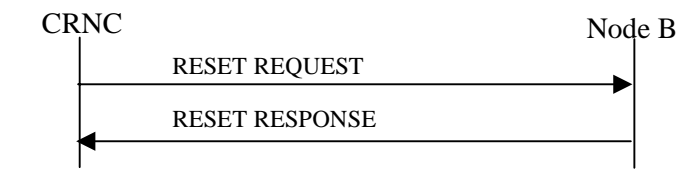
## 8.2.xx Reset

### 8.2.xx.1 General

The purpose of the reset procedure is to align the resources in the CRNC and Node B in the event of an abnormal failure. The CRNC or Node B may initiate the procedure.

### 8.2.xx.2 Successful Operation

#### 8.2.xx.2.1 Reset Initiated by the CRNC



**Figure xx Reset procedure (CRNC to Node B), Successful Operation**

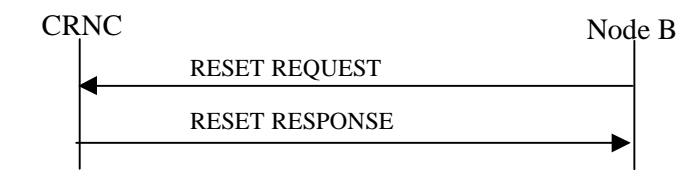
The procedure is initiated with a RESET REQUEST message sent from the CRNC to the Node B.

If the *Reset Indicator* IE is set to 'CommunicationContext', the Node B shall remove all the indicated Node B Communication Contexts and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the *Reset Indicator* IE is set to 'CommunicationControlPort', the Node B shall remove all the Node B Communication Contexts controlled via the indicated Communication Control Port(s) and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the *Reset Indicator* IE is set to the 'Node B', the Node B shall remove all the Node B Communication Contexts within the Node B and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

#### 8.2.xx.2.2 Reset Initiated by the Node B



**Figure xx Reset procedure (Node B to CRNC ), Successful Operation**

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

If the *Reset Indicator* IE is set to 'CommunicationContext', for all indicated CRNC Communication Contexts the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the indicated CRNC Communication Contexts. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to the Node B.

If the *Reset Indicator* IE is set to 'CommunicationControlPort', for all the CRNC Communication Contexts controlled via the indicated Communication Control Port(s) the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC Communication Contexts controlled via the indicated Communication

Control Port(s)). After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

If the *Reset Indicator* IE is set to the 'Node B', for all the CRNC Communication Contexts related to this Node B the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC Communication Contexts related to this Node B. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

### 8.2.xx.3 Unsuccessful Operation

=

### 8.2.xx.4 Abnormal Conditions

If the RESET message is received any ongoing procedure related to a CRNC Communication Context in the CRNC or Node B Communication Context in the Node B indicated (explicitly or implicitly) in the message shall be aborted.

## 9.1.xx RESET REQUEST

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
Message Discriminator	<u>M</u>				=	
Message Type	<u>M</u>				<u>YES</u>	<u>reject</u>
Transaction ID	<u>M</u>				=	
<u>CHOICE Reset Indicator</u>					<u>YES</u>	<u>ignore</u>
<u>&gt;CommunicationContext</u>					<u>YES</u>	<u>reject</u>
<u>&gt;&gt;Communication Context Information</u>		<u>1..&lt;maxCommunicationContext&gt;</u>			<u>EACH</u>	<u>reject</u>
<u>&gt;&gt;&gt;CRNC Communication Context ID</u>	<u>C-ifUL</u>				-	
<u>&gt;&gt;&gt;Node B Communication Context ID</u>	<u>C-ifDL</u>				-	
<u>&gt;CommunicationControl Port</u>					<u>YES</u>	<u>reject</u>
<u>&gt;&gt;Communication Control Port Information</u>		<u>1..&lt;maxCCPinNodeB&gt;</u>			<u>EACH</u>	<u>reject</u>
<u>&gt;&gt;&gt;Communication Control Port ID</u>	<u>M</u>				-	
<u>&gt;Node B</u>			<u>Null</u>			

<u>Range bound</u>	<u>Explanation</u>
<u>IfDL</u>	<u>This IE is only present when message is sent by the CRNC .</u>
<u>IfUL</u>	<u>This IE is only present when message is sent by the Node B .</u>
<u>1..maxCommunicationContext</u>	<u>Maximum number of communication contexts that can exist in the Node-B</u>
<u>1.. maxCCPinNodeB</u>	<u>Maximum number of communication control ports that can exist in the Node B</u>

9.1.xx RESET RESPONSE

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<u>Message Discriminator</u>	<u>M</u>				<u>=</u>	
<u>Message Type</u>	<u>M</u>				<u>YES</u>	<u>reject</u>
<u>Transaction ID</u>	<u>M</u>				<u>=</u>	
<u>Criticality Diagnostics</u>	<u>O</u>				<u>YES</u>	<u>ignore</u>

## 9.2.1.46 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Message Type</b>				
>Procedure ID	M	1		
>>Procedure Code	M		ENUMERATED ( COMMON TRANSPORT CHANNEL SETUP, COMMON TRANSPORT CHANNEL RECONFIGURATION, COMMON TRANSPORT CHANNEL DELETION, BLOCK RESOURCE, UNBLOCK RESOURCE, AUDIT REQUIRED, AUDIT, COMMON MEASUREMENT INITIATION, COMMON MEASUREMENT REPORTING, COMMON MEASUREMENT TERMINATION, COMMON MEASUREMENT FAILURE, CELL SETUP, CELL RECONFIGURATION, CELL DELETION, RESOURCE STATUS INDICATION, SYSTEM INFORMATION UPDATE, RL SETUP, RL ADDITION, SYNCHRONISED RL RECONFIGURATION PREPARATION, SYNCHRONISED RL RECONFIGURATION COMMIT, SYNCHRONISED RL RECONFIGURATION CANCELLATION, UNSYNCHRONISED RL RECONFIGURATION, RL DELETION, DL POWER CONTROL, DEDICATED MEASUREMENT INITIATION, DEDICATED MEASUREMENT REPORTING, DEDICATED MEASUREMENT TERMINATION, DEDICATED MEASUREMENT FAILURE, RL FAILURE, RL RESTORATION, COMPRESSED MODE COMMAND, ERROR INDICATION, <u>RESET</u> , ...)	
>>Ddmode	M		ENUMERATED (FDD, TDD, Common)	Common = common to FDD and TDD.
>Type of Message	M		ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)	

### 9.3.2 PDU Description for NBAP

```

-- *****
--
-- Elementary Procedure definitions
--
-- *****

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

BEGIN

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

IMPORTS
    Criticality,
    ProcedureID,
    MessageDiscriminator,
    TransactionID
FROM NBAP-CommonDataTypes

    CommonTransportChannelSetupRequestFDD,
    CommonTransportChannelSetupRequestTDD,
    CommonTransportChannelSetupResponse,
    CommonTransportChannelSetupFailure,
    CommonTransportChannelReconfigurationRequestFDD,
    CommonTransportChannelReconfigurationRequestTDD,
    CommonTransportChannelReconfigurationResponse,
    CommonTransportChannelReconfigurationFailure,
    CommonTransportChannelDeletionRequest,
    CommonTransportChannelDeletionResponse,
    BlockResourceRequest,
    BlockResourceResponse,
    BlockResourceFailure,
    UnblockResourceIndication,
    AuditRequiredIndication,
    AuditRequest,
    AuditResponse,
    CommonMeasurementInitiationRequest,
    CommonMeasurementInitiationResponse,
    CommonMeasurementInitiationFailure,

```



CommonMeasurementReport,  
CommonMeasurementTerminationRequest,  
CommonMeasurementFailureIndication,  
CellSetupRequestFDD,  
CellSetupRequestTDD,  
CellSetupResponse,  
CellSetupFailure,  
CellReconfigurationRequestFDD,  
CellReconfigurationRequestTDD,  
CellReconfigurationResponse,  
CellReconfigurationFailure,  
CellDeletionRequest,  
CellDeletionResponse,  
ResourceStatusIndication,  
SystemInformationUpdateRequest,  
SystemInformationUpdateResponse,  
SystemInformationUpdateFailure,  
ResetRequest,  
ResetResponse,  
RadioLinkSetupRequestFDD,  
RadioLinkSetupRequestTDD,  
RadioLinkSetupResponseFDD,  
RadioLinkSetupResponseTDD,  
RadioLinkSetupFailureFDD,  
RadioLinkSetupFailureTDD,  
RadioLinkAdditionRequestFDD,  
RadioLinkAdditionRequestTDD,  
RadioLinkAdditionResponseFDD,  
RadioLinkAdditionResponseTDD,  
RadioLinkAdditionFailureFDD,  
RadioLinkAdditionFailureTDD,  
RadioLinkReconfigurationPrepareFDD,  
RadioLinkReconfigurationPrepareTDD,  
RadioLinkReconfigurationReady,  
RadioLinkReconfigurationFailure,  
RadioLinkReconfigurationCommit,  
RadioLinkReconfigurationCancel,  
RadioLinkReconfigurationRequestFDD,  
RadioLinkReconfigurationRequestTDD,  
RadioLinkReconfigurationResponse,  
RadioLinkDeletionRequest,  
RadioLinkDeletionResponse,  
DL-PowerControlRequest,  
DedicatedMeasurementInitiationRequest,  
DedicatedMeasurementInitiationResponse,  
DedicatedMeasurementInitiationFailure,  
DedicatedMeasurementReport,

DedicatedMeasurementTerminationRequest,  
DedicatedMeasurementFailureIndication,  
RadioLinkFailureIndication,  
RadioLinkRestoreIndication,  
CompressedModeCommand,  
ErrorIndication,  
PrivateMessage,  
PhysicalSharedChannelReconfigurationRequestTDD,  
PhysicalSharedChannelReconfigurationResponseTDD,  
PhysicalSharedChannelReconfigurationFailureTDD  
FROM NBAP-PDU-Contents

id-audit,  
id-auditRequired,  
id-blockResource,  
id-cellDeletion,  
id-cellReconfiguration,  
id-cellSetup,  
id-commonMeasurementFailure,  
id-commonMeasurementInitiation,  
id-commonMeasurementReport,  
id-commonMeasurementTermination,  
id-commonTransportChannelDelete,  
id-commonTransportChannelReconfigure,  
id-commonTransportChannelSetup,  
id-compressedModeCommand,  
id-dedicatedMeasurementFailure,  
id-dedicatedMeasurementInitiation,  
id-dedicatedMeasurementReport,  
id-dedicatedMeasurementTermination,  
id-downlinkPowerControl,  
id-errorIndicationForDedicated,  
id-errorIndicationForCommon,  
id-physicalSharedChannelReconfiguration,  
id-privateMessageForDedicated,  
id-privateMessageForCommon,  
id-radioLinkAddition,  
id-radioLinkDeletion,  
id-radioLinkFailure,  
id-radioLinkRestoration,  
id-radioLinkSetup,  
id-reset,  
id-resourceStatusIndication,  
id-synchronisedRadioLinkReconfigurationCancellation,  
id-synchronisedRadioLinkReconfigurationCommit,  
id-synchronisedRadioLinkReconfigurationPreparation,  
id-systemInformationUpdate,

```

    id-unblockResource,
    id-unSynchronisedRadioLinkReconfiguration
FROM NBAP-Constants;

-- *****
--
-- Interface Elementary Procedure Class
--
-- *****

NBAP-ELEMENTARY-PROCEDURE ::= CLASS {
    &InitiatingMessage
    &SuccessfulOutcome           OPTIONAL,
    &UnsuccessfulOutcome         OPTIONAL,
    &Outcome                       OPTIONAL,
    &messageDiscriminator         MessageDiscriminator,
    &procedureID                  ProcedureID    UNIQUE,
    &criticality                   Criticality    DEFAULT ignore
}

WITH SYNTAX {
    INITIATING MESSAGE           &InitiatingMessage
    [SUCCESSFUL OUTCOME         &SuccessfulOutcome]
    [UNSUCCESSFUL OUTCOME       &UnsuccessfulOutcome]
    [OUTCOME                     &Outcome]
    MESSAGE DISCRIMINATOR       &messageDiscriminator
    PROCEDURE ID                 &procedureID
    [CRITICALITY                 &criticality]
}

-- *****
--
-- Interface PDU Definition
--
-- *****

NBAP-PDU ::= CHOICE {
    initiatingMessage           InitiatingMessage,
    succesfulOutcome            SuccessfulOutcome,
    unsuccessfulOutcome         UnsuccessfulOutcome,
    outcome                     Outcome,
    ...
}

InitiatingMessage ::= SEQUENCE {
    procedureID                 NBAP-ELEMENTARY-PROCEDURE.&procedureID  ({NBAP-ELEMENTARY-PROCEDURES}),
    criticality                  NBAP-ELEMENTARY-PROCEDURE.&criticality  ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),

```

```

messageDiscriminator    NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
transactionID          TransactionID,
value                  NBAP-ELEMENTARY-PROCEDURE.&InitiatingMessage( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

SuccessfulOutcome ::= SEQUENCE {
  procedureID          NBAP-ELEMENTARY-PROCEDURE.&procedureID   ( {NBAP-ELEMENTARY-PROCEDURES} ),
  criticality          NBAP-ELEMENTARY-PROCEDURE.&criticality   ( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
  messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
  transactionID       TransactionID,
  value               NBAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} )
}

UnsuccessfulOutcome ::= SEQUENCE {
  procedureID          NBAP-ELEMENTARY-PROCEDURE.&procedureID   ( {NBAP-ELEMENTARY-PROCEDURES} ),
  criticality          NBAP-ELEMENTARY-PROCEDURE.&criticality   ( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
  messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
  transactionID       TransactionID,
  value               NBAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} )
}

Outcome ::= SEQUENCE {
  procedureID          NBAP-ELEMENTARY-PROCEDURE.&procedureID   ( {NBAP-ELEMENTARY-PROCEDURES} ),
  criticality          NBAP-ELEMENTARY-PROCEDURE.&criticality   ( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
  messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} ),
  transactionID       TransactionID,
  value               NBAP-ELEMENTARY-PROCEDURE.&Outcome   ( {NBAP-ELEMENTARY-PROCEDURES}{@procedureID} )
}

-- *****
--
-- Interface Elementary Procedure List
--
-- *****

NBAP-ELEMENTARY-PROCEDURES NBAP-ELEMENTARY-PROCEDURE ::= {
  NBAP-ELEMENTARY-PROCEDURES-CLASS-1      |
  NBAP-ELEMENTARY-PROCEDURES-CLASS-2      ,
  ...
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-1 NBAP-ELEMENTARY-PROCEDURE ::= {
  cellSetupFDD      |
  cellSetupTDD      |
  cellReconfigurationFDD
  cellReconfigurationTDD
  cellDeletion

```

```

commonTransportChannelSetupFDD
commonTransportChannelSetupTDD
commonTransportChannelReconfigureFDD
commonTransportChannelReconfigureTDD
commonTransportChannelDelete
audit
blockResource
radioLinkSetupFDD
radioLinkSetupTDD
systemInformationUpdate
commonMeasurementInitiation
radioLinkAdditionFDD
radioLinkAdditionTDD
radioLinkDeletion
reset
synchronisedRadioLinkReconfigurationPreparationFDD
synchronisedRadioLinkReconfigurationPreparationTDD
unsynchronisedRadioLinkReconfigurationFDD
unsynchronisedRadioLinkReconfigurationTDD
dedicatedMeasurementInitiation
physicalSharedChannelReconfiguration
...
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
resourceStatusIndication
auditRequired
commonMeasurementReport
commonMeasurementTermination
commonMeasurementFailure
synchronisedRadioLinkReconfigurationCommit
synchronisedRadioLinkReconfigurationCancellation
radioLinkFailure
radioLinkRestoration
dedicatedMeasurementReport
dedicatedMeasurementTermination
dedicatedMeasurementFailure
downlinkPowerControlFDD
compressedModeCommand
unblockResource
errorIndicationForDedicated
errorIndicationForCommon
privateMessageForDedicated
privateMessageForCommon
...
}

```

```
-- *****  
--  
-- Interface Elementary Procedures  
-- *****  
  
.  
.  
.  
  <Parts of the ASN.1 module is skipped.>  
.  
.  
.  
-- *** SystemInformationUpdate ***  
systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {  
  INITIATING MESSAGE      SystemInformationUpdateRequest  
  SUCCESSFUL OUTCOME      SystemInformationUpdateResponse  
  UNSUCCESSFUL OUTCOME    SystemInformationUpdateFailure  
  MESSAGE DISCRIMINATOR   common  
  PROCEDURE ID             { procedureCode id-systemInformationUpdate, ddMode common }  
  CRITICALITY              reject  
}  
  
reset NBAP-ELEMENTARY-PROCEDURE ::= {  
  INITIATING MESSAGE      ResetRequest  
  SUCCESSFUL OUTCOME      ResetResponse  
  MESSAGE DISCRIMINATOR   common  
  PROCEDURE ID             { procedureCode id-reset, ddMode common }  
  CRITICALITY              reject  
}  
  
.  
.  
.  
  <The rest of the ASN.1 module is skipped.>  
.  
.  
.
```

### 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-DPCHes,  
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
FROM NBAP-IES

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

id-Active-Pattern-Sequence-Information,  
id-AdjustmentRatio,  
id-AICH-InformationItem-AuditRsp,  
id-AICH-InformationItem-ResourceStatusInd,  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-AllRLItem-DM-Rqst,  
id-AllRLItem-Set-DM-Rqst,  
id-AP-AICH-InformationItem-AuditRsp,  
id-AP-AICH-InformationItem-ResourceStatusInd,  
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-BCH-InformationItem-AuditRsp,  
id-BCH-InformationItem-ResourceStatusInd,  
id-BCCH-ModificationTime,  
id-BlockingPriorityIndicator,  
id-Case1Item-Cell-SetupRqstTDD,  
id-Case2Item-Cell-SetupRqstTDD,  
id-Cause,  
id-CauseLevel-PSCH-ReconfFailureTDD,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CCP-InformationItem-AuditRsp,  
id-CCP-InformationList-AuditRsp,  
id-CCP-InformationItem-ResourceStatusInd,  
id-CDCA-ICH-InformationItem-AuditRsp,  
id-CDCA-ICH-InformationItem-ResourceStatusInd,  
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellItem-CM-Rprt,  
id-CellItem-CM-Rqst,  
id-CellItem-CM-Rsp,  
id-CellParameterID,  
id-CFN,  
id-C-ID,  
id-Closed-Loop-Timing-Adjustment-Mode,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,

id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommunicationContextInfoItem-Reset,  
id-CommunicationContextItem-Reset,  
id-CommunicationControlPortID,  
id-CommunicationControlPortInfoItem-Reset,  
id-CommunicationControlPortItem-Reset,  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,  
id-ConfigurationGenerationID,  
id-CPCH-InformationItem-AuditRsp,  
id-CPCH-InformationItem-ResourceStatusInd,  
id-CPCHItem-CM-Rprt,  
id-CPCHItem-CM-Rqst,  
id-CPCHItem-CM-Rsp,  
id-CPCHListItem-CTCH-ReconfRqstFDD,  
id-CPCH-Parameters-CTCH-SetupRsp,  
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseListIE-RL-ReconfReady,  
id-DCH-InformationResponseListIE-RL-ReconfRsp,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,

id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DL-TPC-Pattern01Count,  
id-DPCHConstant,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationResponseListIE-RL-ReconfReady,  
id-DSCH-InformationResponseListIE-RL-ReconfRsp,  
id-DSCH-InformationResplistIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,

id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-GeneralCauseItem-PSCH-ReconfFailureTDD,  
id-GeneralCauseItem-RL-AdditionFailureFDD,  
id-GeneralCauseItem-RL-AdditionFailureTDD,  
id-GeneralCauseItem-RL-ReconfFailure,  
id-GeneralCauseItem-RL-SetupFailureFDD,  
id-GeneralCauseItem-RL-SetupFailureTDD,  
id-IndicationType-ResourceStatusInd,  
id-Limited-power-increase-information-Cell-SetupRqstFDD,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementAvailableItem-CommonMeasurementReport,  
id-MeasurementnotAvailableItem-CommonMeasurementReport,  
id-MeasurementAvailableItem-DedicatedMeasurementReport,  
id-MeasurementnotAvailableItem-DedicatedMeasurementReport,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,  
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,

id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PCPCH-InformationItem-AuditRsp,  
id-PCPCH-InformationItem-ResourceStatusInd,  
id-PCPCHItem-CTCH-SetupRqstFDD,  
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD,  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHConstant,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACHListIE-CTCH-ReconfRqstFDD,  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,

id-PUSCHConstant,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-RACH-InformationItem-AuditRsp,  
id-RACH-InformationItem-ResourceStatusInd,  
id-RACHItem-CTCH-SetupRsp,  
id-RACHItem-CM-Rprt,  
id-RACHItem-CM-Rqst,  
id-RACHItem-CM-Rsp,  
id-RACH-Parameters-CTCH-SetupRsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-ResetIndicator,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,



id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-RLSpecificCauseItem-RL-AdditionFailureFDD,  
id-RLSpecificCauseItem-RL-AdditionFailureTDD,  
id-RLSpecificCauseItem-RL-ReconfFailure,  
id-RLSpecificCauseItem-RL-SetupFailureFDD,  
id-RLSpecificCauseItem-RL-SetupFailureTDD,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SetSpecificCauseItem-PSCH-ReconfFailureTDD,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,

id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
id-Synchronisation-Configuration-Cell-SetupRqst,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-Transmission-Gap-Pattern-Sequence-Information,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforND,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,

```

id-USCH-Information-ModifyList-RL-ReconfRqstTDD,
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,
id-USCH-InformationResponseListIE-RL-ReconfReady,
id-USCH-InformationResponseListIE-RL-ReconfRsp,
id-USCH-InformationResponseListIE-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,

```

```

maxNrOfCCTrCHs,
maxNrOfCodes,
maxNrOfCPCHs,
maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDLTSS,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPCPCHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSS,
maxNrOfUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxCommunicationContext,
maxLocalCellinNodeB,
maxNrOfSlotFormatsPRACH,
maxIB,
maxIBSEG

```

```
FROM NBAP-Constants;
```

```

•
•
•

```

```
<Parts of the ASN.1 module is skipped.>
```

```

•
•
•
-- *****
--
-- SYSTEM INFORMATION UPDATE FAILURE
--
-- *****

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

SystemInformationUpdateFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-Cause
      PRESENCE mandatory }|
      CRITICALITY ignore      TYPE Cause
    { ID      id-CriticalityDiagnostics
      optional  },
      CRITICALITY ignore      TYPE CriticalityDiagnostics      PRESENCE
    ...
}

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

-- *****
--
-- RESET REQUEST
--
-- *****

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

ResetRequest-IEs NBAP-PROTOCOL-IES ::= {

```

```

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

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

ResetIndicator ::= CHOICE {
    communicationContext          CommunicationContextList-Reset,
    communicationControlPort      CommunicationControlPortList-Reset,
    nodeB                          NULL,
    ...
}

CommunicationContextList-Reset ::= ProtocolIE-Container {{CommunicationContextIE-Reset }}

CommunicationContextIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationContextItem-Reset          CRITICALITY reject          TYPE CommunicationContextItem-Reset          PRESENCE
mandatory },
    ...
}

CommunicationContextItem-Reset ::= SEQUENCE {
    communicationContextInfoList-Reset          CommunicationContextInfoList-Reset,
    iE-Extensions                                ProtocolExtensionContainer { {CommunicationContextItem-Reset-ExtIEs} }
OPTIONAL,
    ...
}

CommunicationContextItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCommunicationContext)) OF ProtocolIE-Container {{
CommunicationContextInfoItemIE-Reset }}

```

```

CommunicationContextInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
  {ID id-CommunicationContextInfoItem-Reset      CRITICALITY reject      TYPE CommunicationContextInfoItem-Reset
  PRESENCE mandatory},
  ...
}

CommunicationContextInfoItem-Reset ::= SEQUENCE {
  crnc-CommunicationContextID      CRNC-CommunicationContextID      OPTIONAL,
  -- This IE is only present when message is sent by the Node B
  nodeB-CommunicationContextID      NodeB-CommunicationContextID      OPTIONAL,
  -- This IE is only present when message is transmitted by the CRNC
  iE-Extensions                    ProtocolExtensionContainer { {CommunicationContextInfoItem-Reset-ExtIEs} } OPTIONAL,
  ...
}

CommunicationContextInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommunicationControlPortList-Reset ::= ProtocolIE-Container {{CommunicationControlPortIE-Reset }}

CommunicationControlPortIE-Reset NBAP-PROTOCOL-IES ::= {
  {ID id-CommunicationControlPortItem-Reset      CRITICALITY reject      TYPE CommunicationControlPortItem-Reset
  PRESENCE mandatory},
  ...
}

CommunicationControlPortItem-Reset ::= SEQUENCE {
  communicationControlPortInfoList-Reset      CommunicationControlPortInfoList-Reset,
  iE-Extensions                    ProtocolExtensionContainer { {CommunicationControlPortItem-Reset-ExtIEs} }
  OPTIONAL,
  ...
}

```

```

CommunicationControlPortItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommunicationControlPortInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCCPinNodeB)) OF ProtocolIE-Container
{{CommunicationControlPortInfoItemIE-Reset }}

CommunicationControlPortInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
  ID id-CommunicationControlPortInfoItem-Reset CRITICALITY reject TYPE CommunicationControlPortInfoItem-Reset
  PRESENCE mandatory},
  ...
}

CommunicationControlPortInfoItem-Reset ::= SEQUENCE {
  communicationControlPortID CommunicationControlPortID,
  iE-Extensions ProtocolExtensionContainer { {CommunicationControlPortInfoItem-Reset-ExtIEs} } OPTIONAL,
  ...
}

CommunicationControlPortInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RESET RESPONSE
--
-- *****

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

```

```
ResetResponse-IEs NBAP-PROTOCOL-IES ::= {  
  {ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE  
  optional},  
  ...  
}  
  
ResetResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}  
  
.  
.  
.  
.  
<The rest of the ASN.1 module is skipped.>  
.  
.  
.
```



### 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
id-reset                               INTEGER ::= xx

-- *****
--
-- 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
| maxCommunicationContext      INTEGER ::= 1048575
-- *****
--
-- 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
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
<u>id-CommunicationContextInfoItem-Reset</u>	<u>INTEGER ::= xxx1</u>
<u>id-CommunicationContextItem-Reset</u>	<u>INTEGER ::= xxx2</u>
<u>id-CommunicationControlPortInfoItem-Reset</u>	<u>INTEGER ::= xxx3</u>
<u>id-CommunicationControlPortItem-Reset</u>	<u>INTEGER ::= xxx4</u>
<u>id-ResetIndicator</u>	<u>INTEGER ::= xxx5</u>

END





### 9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Set				
<b>Dynamic Transport Format Information</b>		1 to <maxTFcount>		
>Number of Transport blocks	M		INTEGER (0..409512)	
>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE mode				
>>TDD				
>>>Transmission time interval	C-TTIdynamic	1 to <maxTTIcount>	Enumerated(10, 20, 40, 80)	
<b>Semi-static Transport Format Information</b>				
>Transmission time interval	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80)	msec
>Type of channel coding	M		ENUMERATED (No coding, Convolutional, Turbo)	
>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3)	
>Rate matching attribute	M		INTEGER (1..maxRM)	
>CRC size	M		ENUMERATED (0, 8, 12, 16, 24)	
>CHOICE mode				
>>TDD				
>>>2 <sup>nd</sup> interleaving mode	M		Enumerated(Frame related, Timeslot related)	

Condition	Explanation
Blocks	This IE is only present if "Number of Transport Blocks" is greater than 0.
Coding	This IE is only present if IE "Type of channel coding" is "Convolutional" or "Turbo"
<i>TTIdynamic</i>	This IE is mandatory if not defined as semistatic parameter. Otherwise it is absent.
<i>TTIsemistatic</i>	This IE is mandatory if not defined as dynamic parameter. Otherwise it is absent.

Range bound	Explanation
MaxTFcount	Maximum number of different transport formats that can be included in the Transport format set for one transport channel.
MaxRM	Maximum number that could be set as rate matching attribute for a transport channel.
MaxTTIcount	The amount of different TTI that are possible for that transport format.

## 9.3.4 NBAP Information Elements

```
-- =====  
-- 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'
    rateMatcingAttribute              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..4095512)  
  
TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)
```

<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>189r1</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> ↑		Current Version: <b>3.2.0</b>
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:** July 2000

**Subject:** Handling of IEs marked with "Ignore and Notify" in NBAP Class 2 Procedures

**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:** In the NBAP specification the handling of IEs with the Criticality Information set to "Ignore and Notify" in class 2 procedures is currently not defined.

This CR clarifies that the handling of IEs with the Criticality Information set to "Ignore and Notify" in class 2 procedures is the same as for procedures with response messages, except that the reporting shall be done by the Error Indication procedure.

**Clauses affected:** 10.3.4.2, 10.3.5

<b>Other specs</b>	Other 3G core specifications <input checked="" type="checkbox"/>	→ List of CRs: TS 25.413 CR130, TS 25.419 CR12, TS 25.423 CR159
<b>affected:</b>	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:**

### 10.3.4.2 IEs other than the Procedure Code

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure Code* according to the following:

#### Reject IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall initiate the Error Indication procedure.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE*" that the receiving node does not comprehend, the receiving node shall initiate local error handling.

#### Ignore IE and Notify Sender:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and report in the response message of the procedure that one or more IEs/IE groups have been ignored.
- if a message *initiating* a procedure that does not have a message to report the outcome of the procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and initiate the Error Indication procedure to report that one or more IEs/IE groups have been ignored.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and initiate the Error Indication procedure.

#### Ignore IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

### 10.3.5 Missing IE or IE group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

#### Reject IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Reject IE*"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate the Error Indication procedure.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate local error handling.

#### Ignore IE and Notify Sender:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing.
- if a received message *initiating* a procedure that does not have a message to report the outcome of the procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall initiate the Error Indication procedure.

#### Ignore IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message.