

**TSG-RAN Meeting #8  
Düsseldorf, Germany, 21 - 23 June 2000**

**TSGRP#8(00)0253**

**Title:** Agreed CRs to TS 25.433

**Source:** TSG-RAN WG3

**Agenda item:** 5.3.3

| <b>Tdoc_Num</b> | <b>Specification</b> | <b>CR_Num</b> | <b>Revision_Nu</b> | <b>CR_Subject</b>                  | <b>CR_Category</b> | <b>WG_Status</b> | <b>Cur_Ver_Num</b> | <b>New_Ver_Nu</b> |
|-----------------|----------------------|---------------|--------------------|------------------------------------|--------------------|------------------|--------------------|-------------------|
| R3-001609       | 25.433               | 146           | 1                  | Update on compressed mode handling | C                  | agreed           | 3.1.0              | 3.2.0             |
| R3-001652       | 25.433               | 068           | 10                 | NBAP Signalling support for CPCH   | B                  | agreed           | 3.1.0              | 3.2.0             |
| R3-001657       | 25.433               | 164           |                    | NBAP ASN.1 merge files             | F                  | agreed           | 3.1.0              | 3.2.0             |

**3GPP TSG RAN WG3 Meeting #13**  
**Hawaii, USA, 22 – 26 May, 2000**

**Document R3-001652**

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 068r10** Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**

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:** Samsung Electronics and GBT **Date:** 00.05.26

**Subject:** NBAP Signaling support for CPCH

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
 A Corresponds to a correction in an earlier release  Release 96   
 (only one category B Addition of feature  Release 97   
 Shall be marked C Functional modification of feature  Release 98   
 with an X) D Editorial modification  Release 99   
 Release 00

**Reason for change:** Signalling support for CPCH.

**Clauses affected:** 3.3, 8.2.1, 8.2.2, 8.2.3, 8.2.8, 9.1.2, 9.1.3, 9.1.5, 9.1.16, 9.1.17, 9.1.18, 9.1.20, 9.1.31, 9.2.1, 9.2.2, 9.3

**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:**  
 1. The range of N\_EOT is changed from (1..8) to (0..8) based on LS from WG1 (R3-001603).  
 2. The range and name of UL DPCCH Slot Format is changed into (0..2) and CPCH UL DPCCH Slot Format based on approved CRs in WG1 and WG2 (R2-001250) for consistency of specifications.

The changes are highlighted by yellow shadow.



help.doc

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



## 3.3 Abbreviations

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

|              |  |
|--------------|--|
| ASN.1        | Abstract Syntax Notation One           |
| ATM          | Asynchronous Transfer Mode             |
| BCCH         | Broadcast Control Channel              |
| CCPCH        | Common Control Physical Channel        |
| CFN          | Connection Frame Number                |
| <u>CPCH</u>  | <u>Common Packet Channel</u>           |
| CRNC         | Controlling Radio Network Controller   |
| DCH          | Dedicated Channel                      |
| DL           | Downlink                               |
| DPCCH        | Dedicated Physical Control Channel     |
| DPCH         | Dedicated Physical Channel             |
| DPDCH        | Dedicated Physical Data Channel        |
| DSCH         | Downlink Shared Channel                |
| FDD          | Frequency Division Duplex              |
| FP           | Frame Protocol                         |
| L1           | Layer 1                                |
| L2           | Layer 2                                |
| NBAP         | Node B Application Part                |
| O&M          | Operation and Management               |
| <u>PCPCH</u> | <u>Physical Common Packet Channel</u>  |
| PDSCH        | Physical Downlink Shared Channel       |
| PUSCH        | Physical Uplink Shared Channel         |
| RL           | Radio Link                             |
| RLS          | Radio Link Set                         |
| RNC          | Radio Network Controller               |
| RRC          | Radio Resource Control                 |
| SRNC         | Serving Radio Network Controller       |
| TDD          | Time Division Duplex                   |
| TFC          | Transport Format Combination           |
| TFCI         | Transport Format Combination Indicator |
| TFCS         | Transport Format Combination Set       |
| TFS          | Transport Format Set                   |
| TPC          | Transmit Power Control                 |
| UE           | User Equipment                         |
| UL           | Uplink                                 |
| USCH         | Uplink Shared Channel                  |
| UTRAN        | UMTS Terrestrial Radio Access Network  |

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## 8 NBAP Procedures

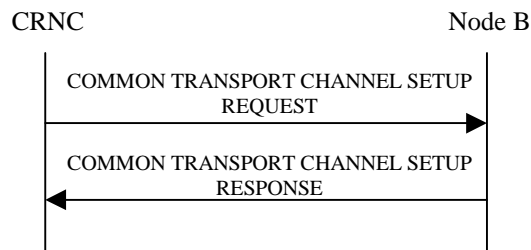
### 8.2 NBAP Common Procedures

#### 8.2.1 Common Transport Channel Setup

##### 8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, PCPCH[FDD], AICH [FDD], AP\_AICH[FDD], CD/CA-ICH[FDD], FACH, PCH, ~~and~~ RACH and CPCH[FDD].

## 8.2.1.2 Successful Operation



**Figure 1: Common Transport Channel Setup procedure, Successful Operation**

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

One message can configure only one of the following combinations:

- [FDD-one Secondary CCPCH, and FACHes, PCH and PICH related to that Secondary CCPCH], or
- [TDD- Secondary CCPCHes and FACHes, PCH with the corresponding PICH related to that group of Secondary CCPCHes], or
- one PRACH, and one RACH and one AICH(FDD) related to that PRACH at the time.
- [FDD-PCPCHes, one CPCH, one AP AICH and one CD/CA-ICH related to that group of PCPCHes at the time.]

### Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a Secondary CCPCH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The handling of the optional *STTD* IE is FFS.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains one or more Secondary CCPCHs, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

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

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains one or several FACHs, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PCH and a PICH, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message. [FDD- The handling of the optional *STTD* IE for PICH is FFS.]

### PRACH:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PRACH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[FDD- The handling of the optional *STTD* IE for AICH is FFS.]

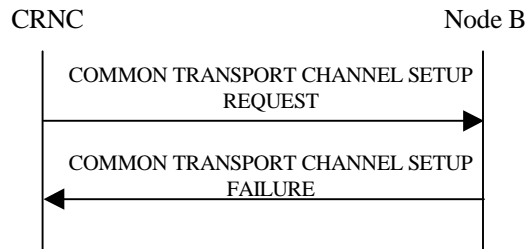
### [FDD-PCPCHes]:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains PCPCHes, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[FDD- The handling of the optional *STTD* IE for AP-AICH and CD/CA-ICH is FFS.]

After a successful procedure, the defined common transport channels and the common physical channels have adopted the operational state Enabled in Node B and the common transport channels exist on the Uu interface. The Node B shall store the value of *Configuration Generation ID* IE and it shall respond with the COMMON TRANSPORT CHANNEL SETUP RESPONSE message with the transport layer information for the configured common transport channels.

### 8.2.1.3 Unsuccessful Operation



**Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation**

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

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

Typical cause values are as follows:

#### Radio Network Layer Cause

- Cell not available
- Unknown C-ID
- Power level not supported
- Node B Resources unavailable

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 8.2.1.4 Abnormal Conditions

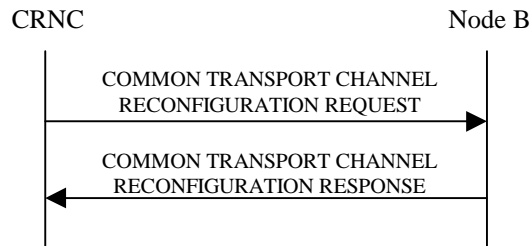
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## 8.2.2 Common Transport Channel Reconfiguration

### 8.2.2.1 General

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

### 8.2.2.2 Successful Operation



**Figure 3: Common Transport Channel Reconfiguration, Successful Operation**

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

One message can configure only one of the following combinations:

- [FDD- FACHes, one PCH and/or one PICH related to one Secondary CCPCH], or

- [TDD- Secondary CCPCHes and FACHes, PCH with the corresponding PICH related to that group of Secondary CCPCHes], or

- one RACH and/or one AICH(FDD) related to one PRACH, or

- [FDD- one CPCH and/or one AP-AICH and/or one CD/CA-ICH related to one CPCH

at the time.

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

**FACH:** When one or several FACHs are present Node B reconfigures the indicated FACHs.

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

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the FACH shall use.

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

**PCH:** When the PCH is present Node B reconfigures the indicated PCH.

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

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

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

**PICH:** When a PICH is present Node B reconfigures the indicated PICH.

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

**[FDD- PRACH]:** When a PRACH is present Node B reconfigures the indicated PRACH.

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

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

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Sub Channel Information, the Node B shall reconfigure the sub channel numbers that the PRACH shall use.

**[FDD- AICH]:** When a AICH is present Node B reconfigures the indicated AICH.

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

**[FDD- CPCH]:** When a CPCH is present Node B reconfigures the indicated CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes UL SIR Information, the Node B shall reconfigure the UL SIR for the UL power control for the CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Initial DL transmission Power Information, the Node B shall reconfigure the Initial DL transmission Power for the CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Maximum DL Power Information, the Node B shall apply this value to the new configuration and never transmit with a higher power on any DL PCPCHes once the new configuration is being used.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Minimum DL Power Information, the Node B shall apply this value to the new configuration and never transmit with a lower power on any DL PCPCHes once the new configuration is being used.

**[FDD- AP-AICH]:** When a AP-AICH is present Node B reconfigures the indicated AP-AICH.

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

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

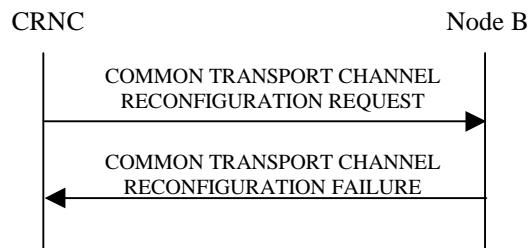
**[FDD-CD/CA-ICH]:**When a CD/CA-ICH is present Node B reconfigures the indicated CD/CA-ICH.



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

After a successful procedure, the channels have adopted the new configuration in Node B. Node B shall store the value of *Configuration Generation ID IE*, and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

### 8.2.2.3 Unsuccessful Operation



**Figure 4: Common Transport 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 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message. The *Cause Value IE* shall be set to an appropriate value. The value of *Configuration Generation ID IE* from the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall not be stored.

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

Typical cause values are as follows:

#### Radio Network Layer Cause

- Cell not available
- Unknown C-ID
- Power level not supported
- Node B Resources unavailable

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 8.2.2.4 Abnormal Conditions

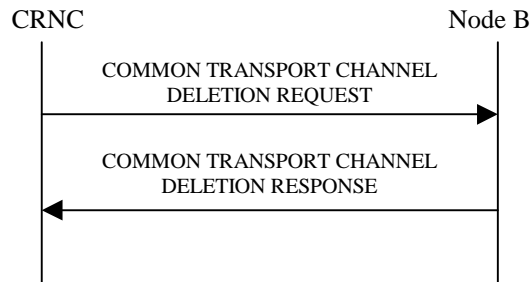
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## 8.2.3 Common Transport Channel Deletion

### 8.2.3.1 General

This procedure is used for deleting common physical channels and common transport channels setup by the Common Transport Channel Setup procedure in a cell.

### 8.2.3.2 Successful Operation



**Figure 5: Common Transport Channel Deletion procedure, Successful Operation**

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

**Secondary CCPCH:** When the COMMON TRANSPORT CHANNEL DELETION REQUEST message contains a Secondary CCPCH, Node B shall delete the indicated channel and the FACHes and PCH supported by that Secondary CCPCH. If there is a PCH that is deleted, the PICH associated with that PCH shall also be deleted.

**PRACH:** When the COMMON TRANSPORT CHANNEL DELETION REQUEST message contains a PRACH, Node B shall delete the indicated channel and the RACH supported by the PRACH. [FDD- The AICH associated with the PCH shall also be deleted.]

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

**[FDD – PCPCHes]:** When the COMMON TRANSPORT CHANNEL DELETION REQUEST message contains one of PCPCHes for a CPCH, Node B shall delete all PCPCHes associated with the indicated channel and the CPCH supported by the PCPCHes. The AP-AICH and CD/CA-ICH associated with the PCH shall also be deleted.

After a successful procedure, the channels are deleted in Node B. Node B shall store the new value of the *Configuration Generation ID* IE, and respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

### 8.2.3.3 Unsuccessful Operation

-

### 8.2.3.4 Abnormal Conditions

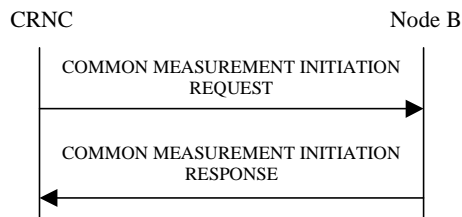
If the C-ID in the COMMON TRANSPORT CHANNEL DELETION REQUEST message is not existing in the Node B or the Common Physical Channel ID does not exist in the Cell, the Node B shall respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

## 8.2.8 Common Measurement Initiation

### 8.2.8.1 General

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

### 8.2.8.2 Successful Operation



**Figure 11: Common Measurement Initiation procedure: Successful Operation**

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

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

[TDD- If the Time Slot Information is provided in the *Common Measurement Object Type IE*, the measurement request shall apply to the requested time slot individually.]

[FDD- If the Spreading Factor Information is provided in the *Common Measurement Object Type IE*, measurement request shall apply to the PCPCHes whose minimum allowed spreading factor (Min UL Channelisation Code Length) is equal to the value of Spreading Factor Information.]

The *Report Characteristics IE* indicates how the reporting of the measurement shall be performed.

If the *Report Characteristics IE* is set to 'On-Demand', the Node B shall report the result of the requested measurement immediately.

If the *Report Characteristics IE* is set to 'Periodic', the Node B shall periodically initiate a Measurement Reporting procedure for this measurement, with the requested report frequency.

If the *Report Characteristics IE* is set to 'Event A', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics IE* is set to 'Event B', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics IE* is set to 'Event C', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics IE* is set to 'Event D', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics IE* is set to 'Event E', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity IE* is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use

'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'Event F', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

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

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

The averaging shall be performed according to the following formula.

$$F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows

$F_n$  is the updated filtered measurement result

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

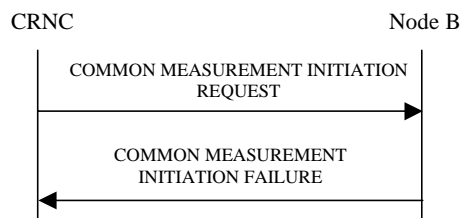
$M_n$  is the latest received measurement result from physical layer measurements

$a$  = one divided by the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present,  $a$  shall be set to 1 (no filtering)

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

If the Node B was able to initiate the measurement requested by the CRNC it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B control port. The message shall include the same Measurement Id that was used in the measurement request. Only in the case when the *Report Characteristics* IE is set to "On-Demand", the COMMON MEASUREMENT INITIATION RESPONSE message shall contain the measurement result.

### 8.2.8.3 Unsuccessful Operation



**Figure 12: Common Measurement Initiation procedure: Unsuccessful Operation**

If the requested measurement cannot be initiated, the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message sent over the Node B control port. The message shall include the same Measurement Id that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer Cause**

- Measurement not supported for the object.

## 9 Elements for NBAP communication

### 9.1 Message functional definition and content

#### 9.1.2 COMMON TRANSPORT CHANNEL SETUP REQUEST

##### 9.1.2.1 FDD Message

| IE/Group Name  | Presence       | Range             | IE type and reference | Semantics description              | Criticality | Assigned Criticality |
|--|----------------|-------------------|-----------------------|------------------------------------|-------------|----------------------|
| Message Discriminator                                  | M              |                   |                       |                                    | –           |                      |
| Message Type   | M              |                   |                       |                                    | YES         | reject               |
| Transaction ID   | M              |                   |                       |                                    | –           |                      |
| C-ID   | M              |                   |                       |                                    | YES         | reject               |
| Configuration Generation ID                            | M              |                   |                       |                                    | 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              |                   |                       |                                    | –           |                      |
| >>FDD S-CCPCH Offset                                   | M              |                   |                       | Corresponds to 25.211: s-CCPCH,k   | –           |                      |
| >>DL Scrambling Code                                   | M              |                   |                       |                                    | –           |                      |
| >>FDD DL Channelisation Code Number                    | M              |                   |                       |                                    | –           |                      |
| >>TFCS   | M              |                   |                       | For the DL.                        | –           |                      |
| >>Secondary CCPCH Slot Format                          | M              |                   |                       |                                    | –           |                      |
| >>>TFCI Presence                                       | C – SlotFormat |                   |                       |                                    | –           |                      |
| >>Multiplexing Position                                | M              |                   |                       |                                    | –           |                      |
| >>STTD Indicator                                       | M              |                   |                       |                                    | –           |                      |
| <b>&gt;&gt;FACH Parameters</b>                         | C-choiceCh     | 0..<maxnoofFACHs> |                       |                                    | GLOBAL      | reject               |
| >>>Common transport channel ID                         | M              |                   |                       |                                    | –           |                      |
| >>>Transport Format Set                                | M              |                   |                       | For the DL.                        | –           |                      |
| >>>ToAWS   | M              |                   |                       |                                    | –           |                      |
| >>>ToAWE   | M              |                   |                       |                                    | –           |                      |
| >>>Max FACH Power                                      | M              |                   | DL Power              | Maximum allowed power on the FACH. | –           |                      |
| <b>&gt;&gt;PCH Parameters</b>                          | C-choiceCh     | 0..1              |                       |                                    | YES         | reject               |
| >>>Common Transport Channel ID                         | M              |                   |                       |                                    | –           |                      |
| >>>Transport Format                                    | M              |                   |                       | For the DL.                        | –           |                      |

|  |   |            |          |                               |     |        |
|--|---|------------|----------|-------------------------------|-----|--------|
| Set  |   |            |          |                               |     |        |
| >>>ToAWS                                       | M |            |          |                               | -   |        |
| >>>ToAWE                                       | M |            |          |                               | -   |        |
| >>>PCH Power                                   | M |            | DL Power |                               | -   |        |
| <b>&gt;&gt;&gt;PICH Parameters</b>             |   | 1          |          |                               | -   |        |
| >>>>Common Physical Channel ID                 | M |            |          |                               | -   |        |
| >>>>DL Scrambling Code                         | M |            |          |                               | -   |        |
| >>>>FDD DL Channelisation Code Number          | M |            |          |                               | -   |        |
| >>>>PICH Power                                 | M |            | DL Power | Power to be used on the PICH. | -   |        |
| >>>>PICH Mode                                  | M |            |          | Number of PI per frame        | -   |        |
| >>>>STTD Indicator                             | M |            |          |                               | -   |        |
| >PRACH   |   |            |          |                               | YES | reject |
| <b>&gt;PRACH</b>                               |   | 1          |          |                               |     |        |
| >>Common Physical Channel ID                   | M |            |          |                               | -   |        |
| >>Scrambling Code Word Number                  | M |            |          |                               | -   |        |
| >>TFCS   | M |            |          | For the UL.                   | -   |        |
| >>Preamble Signatures                          | M |            |          |                               | -   |        |
| <b>&gt;&gt;Allowed Slot Format Information</b> |   | 1..<maxSF> |          |                               | -   |        |
| >>>RACH Slot Format                            | M |            |          |                               | -   |        |
| >RACH Sub Channel Numbers                      | M |            |          |                               | -   |        |
| >Puncture Limit                                | M |            |          | For the UL                    | -   |        |
| >Preamble threshold                            | M |            |          |                               | -   |        |
| <b>&gt;&gt;RACH Parameters</b>                 |   | 1          |          |                               | YES | reject |
| >>>Common Transport Channel ID                 | M |            |          |                               | -   |        |
| >>>Transport Format Set                        | M |            |          | For the UL.                   | -   |        |
| <b>&gt;&gt;&gt;AICH Parameters</b>             |   | 1          |          |                               | -   |        |
| >>>>Common Physical Channel ID                 | M |            |          |                               | -   |        |
| >>>>DL Scrambling Code                         | M |            |          |                               | -   |        |
| >>>>AICH Transmission Timing                   | M |            |          |                               | -   |        |
| >>>>FDD DL Channelisation Code Number          | M |            |          |                               | -   |        |
| >>>>AICH Power                                 | M |            | DL Power |                               | -   |        |
| >>>>STTD Indicator                             | M |            |          |                               | -   |        |
| <b>&gt;PCPCHes</b>                             |   |            |          |                               | YES | Reject |
| <b>&gt;&gt;CPCH Parameters</b>                 |   | 1          |          |                               | -   |        |
| >>>Common Transport Channel ID                 | M |            |          |                               | -   |        |
| >>>Transport Format Set                        | M |            |          | For the UL.                   | -   |        |
| >>>AP Preamble                                 | M |            | CPCH     |                               | -   |        |

|  |                |                             |                                    |  |   |  |
|--|----------------|-----------------------------|------------------------------------|--|---|--|
| <u>Scrambling Code</u>                                   |                |                             | <u>Scrambling Code Number</u>      |  |   |  |
| <u>&gt;&gt;&gt;CD Preamble Scrambling Code</u>           | <u>M</u>       |                             | <u>CPCH Scrambling Code Number</u> |  | = |  |
| <u>&gt;&gt;&gt;TFCS</u>                                  | <u>M</u>       |                             |                                    | <u>For the UL</u>  | = |  |
| <u>&gt;&gt;&gt;CD Signatures</u>                         | <u>O</u>       |                             | <u>Preamble Signatures</u>         | <u>Note: When not present, all CD signatures are to be used.</u> | = |  |
| <u>&gt;&gt;&gt;CD Sub Channel Numbers</u>                | <u>C-CDSig</u> |                             |                                    |  | = |  |
| <u>&gt;&gt;&gt;Puncture Limit</u>                        | <u>M</u>       |                             |                                    | <u>For the UL</u>  | = |  |
| <u>&gt;&gt;&gt;CPCH UL DPCCH Slot Format</u>             | <u>M</u>       |                             |                                    | <u>For UL CPCH message control part</u>                          | = |  |
| <u>&gt;&gt;&gt;UL SIR</u>                                | <u>M</u>       |                             | <u>UL SIR</u>                      |  | = |  |
| <u>&gt;&gt;&gt;Initial DL transmission Power</u>         | <u>M</u>       |                             | <u>DL Power</u>                    |  | = |  |
| <u>&gt;&gt;&gt;Maximum DL Power</u>                      | <u>M</u>       |                             | <u>DL Power</u>                    |  | = |  |
| <u>&gt;&gt;&gt;Minimum DL Power</u>                      | <u>M</u>       |                             | <u>DL Power</u>                    |  | = |  |
| <u>&gt;&gt;&gt;PO2</u>                                   | <u>M</u>       |                             | <u>Power Offset</u>                | <u>Power offset for the TPC bits</u>                             | = |  |
| <u>&gt;&gt;&gt;PO3</u>                                   | <u>M</u>       |                             | <u>Power Offset</u>                | <u>Power offset for the pilot bits</u>                           | = |  |
| <u>&gt;&gt;&gt;FDD TPC DL Step Size</u>                  | <u>M</u>       |                             |                                    |  | = |  |
| <u>&gt;&gt;&gt;N_Start_Message</u>                       | <u>M</u>       |                             |                                    |  | = |  |
| <u>&gt;&gt;&gt;N_EOT</u>                                 | <u>M</u>       |                             |                                    |  | = |  |
| <u>&gt;&gt;&gt;Channel Assignment Indication</u>         | <u>M</u>       |                             |                                    |  | = |  |
| <u>&gt;&gt;&gt;CPCH Allowed Total Rate</u>               | <u>M</u>       |                             |                                    |  | = |  |
| <u>&gt;&gt;&gt;PCPCH Channel Information</u>             |                | <u>1..&lt;maxnoofPCPCHs</u> |                                    |  | = |  |
| <u>&gt;&gt;&gt;&gt;Common Physical Channel ID</u>        | <u>M</u>       |                             |                                    |  | = |  |
| <u>&gt;&gt;&gt;&gt;CPCH Scrambling Code Number</u>       | <u>M</u>       |                             |                                    | <u>For UL PCPCH</u>  | = |  |
| <u>&gt;&gt;&gt;&gt;DL Scrambling Code</u>                | <u>M</u>       |                             |                                    | <u>For DL CPCH message part</u>                                  | = |  |
| <u>&gt;&gt;&gt;&gt;FDD DL Channelisation Code Number</u> | <u>M</u>       |                             |                                    | <u>For DL CPCH message part</u>                                  | = |  |
| <u>&gt;&gt;&gt;&gt;PCP Length</u>                        | <u>M</u>       |                             |                                    |  | = |  |



|   |              |                               |                 |                                       |   |  |
|---|--------------|-------------------------------|-----------------|---------------------------------------|---|--|
| <b>&gt;&gt;&gt;&gt;UCSM Information</b>               | <u>C-NCA</u> | <u>1</u>                      |                 |                                       | = |  |
| >>>>>Min UL Channelisation Code Length                | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>NF_max   | <u>M</u>     |                               |                 |                                       | = |  |
| <b>&gt;&gt;&gt;&gt;&gt;Channel Request Parameters</b> |              | <u>0..&lt;maxAPSigNum&gt;</u> |                 |                                       | = |  |
| >>>>>>AP Preamble Signature                           | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>AP Sub Channel Number                            | <u>O</u>     |                               |                 |                                       | = |  |
| <b>&gt;&gt;&gt;VCAM Mapping Information</b>           | <u>C-CA</u>  | <u>1..&lt;maxnoofLen&gt;</u>  |                 | Refer to TS [18]                      | = |  |
| >>>>Min UL Channelisation Code Length                 | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>NF_max  | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>Max Number of PCPCHes                             | <u>M</u>     |                               |                 |                                       | = |  |
| <b>&gt;&gt;&gt;&gt;SF Request Parameters</b>          |              | <u>1..&lt;maxAPSigNum&gt;</u> |                 |                                       | = |  |
| >>>>>AP Preamble Signature                            | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>AP Sub Channel Number                            | <u>O</u>     |                               |                 |                                       | = |  |
| <b>&gt;&gt;&gt;&gt;AP-AICH Parameters</b>             |              | <u>1</u>                      |                 |                                       | = |  |
| >>>>>Common Physical Channel ID                       | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>DL Scrambling Code                               | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>FDD DL Channelisation Code Number                | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>AP-AICH Power                                    | <u>M</u>     |                               | <u>DL Power</u> |                                       | = |  |
| >>>>>CSICH Power                                      | <u>M</u>     |                               | <u>DL Power</u> | For CSICH bits at end of AP-AICH slot | = |  |
| >>>>>STTD Indicator                                   | <u>O</u>     |                               |                 |                                       | = |  |
| <b>&gt;&gt;&gt;&gt;CD/CA-ICH Parameters</b>           |              | <u>1</u>                      |                 |                                       | = |  |
| >>>>>Common Physical Channel ID                       | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>DL Scrambling Code                               | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>FDD DL Channelisation Code Number                | <u>M</u>     |                               |                 |                                       | = |  |
| >>>>>CD/CA-ICH Power                                  | <u>M</u>     |                               | <u>DL Power</u> |                                       | = |  |
| >>>>>STTD Indicator                                   | <u>O</u>     |                               |                 |                                       | = |  |

| 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.   |
| <a href="#">CDSig</a> | <a href="#">The IE may be present if the Available CD Signatures is present.</a>                     |
| <a href="#">CA</a>    | <a href="#">The IE must be present if the Channel Assignment Indication is set to 'CA Active'.</a>   |
| <a href="#">NCA</a>   | <a href="#">The IE must be present if the Channel Assignment Indication is set to 'CA Inactive'.</a> |

| Range bound                   | Explanation   |
|-------------------------------|---|
| MaxnoofFACHs                  | Maximum number of FACHs that can be defined on a Secondary CCPCH.   |
| <a href="#">MaxnoofPCPCHs</a> | <a href="#">Maximum number of PCPCHs for a CPCH</a>                 |
| <a href="#">MaxnoofLen</a>    | <a href="#">Maximum number of Min UL Channelisation Code Length</a> |
| MaxSF                         | Maximum number of SF for a PRACH                                    |
| <a href="#">MaxAPSigNum</a>   | <a href="#">Maximum number of AP Signatures.</a>                    |

### 9.1.2.2 TDD Message

| IE/Group Name   | Presence | Range | IE type and reference | Semantics description                                    | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------|--|-------------|----------------------|
| Message Discriminator                                   | M        |       |                       |  | –           |                      |
| Message Type  | M        |       |                       |  | YES         | reject               |
| Transaction ID  | M        |       |                       |  | –           |                      |
| C-ID  | M        |       |                       |  | YES         | reject               |
| Configuration Generation ID                             | M        |       |                       |  | YES         | reject               |
| CHOICE <i>common physical channels to be configured</i> |          |       |                       |  | YES         | ignore               |
| Secondary CCPCHs  |          |       |                       |  | YES         | reject               |
| >CCTrCH ID  | M        |       |                       | For DL CCTrCH supporting one or several Secondary CCPCHs | –           |                      |
| >TFCS   | M        |       |                       | For DL CCTrCH supporting one or several Secondary CCPCHs | –           |                      |

|                                    |               |                                      |          |                        |        |        |
|------------------------------------|---------------|--------------------------------------|----------|------------------------|--------|--------|
| <b>&gt;Secondary CCPCH</b>         |               | <i>1..&lt;maxnoofS - CCPC Hs&gt;</i> |          |                        | GLOBAL | reject |
| >>Common physical channel ID       | M             |                                      |          |                        | -      |        |
| >>TDD Channelisation Code          | M             |                                      |          |                        | -      |        |
| >>Time Slot                        | M             |                                      |          |                        | -      |        |
| >>Burst Type                       | M             |                                      |          | Long or short midamble | -      |        |
| >>Midamble shift                   | M             |                                      |          |                        | -      |        |
| >>TDD Physical Channel Offset      | M             |                                      |          |                        | -      |        |
| >>Repetition Period                | M             |                                      |          |                        | -      |        |
| >>Repetition Length                | M             |                                      |          |                        | -      |        |
| >>S-CCPCH Power                    | M             |                                      | DL Power |                        | -      |        |
| <b>&gt;&gt;FACH</b>                | C<br>ChoiceCh | <i>0..&lt;maxnoofF ACHs&gt;</i>      |          |                        | GLOBAL | reject |
| >>>Common transport channel ID     | M             |                                      |          |                        | -      |        |
| >>>Transport Format Set            | M             |                                      |          | For the DL.            | -      |        |
| >>>ToAWS                           | M             |                                      |          |                        | -      |        |
| >>>ToAWE                           | M             |                                      |          |                        | -      |        |
| <b>&gt;&gt;PCH</b>                 | C<br>ChoiceCh | <i>0..1</i>                          |          |                        | GLOBAL | reject |
| >>>Common transport channel ID     | M             |                                      |          |                        | -      |        |
| >>>Transport Format Set            | M             |                                      |          | For the DL.            | -      |        |
| >>>ToAWS                           | M             |                                      |          |                        | -      |        |
| >>>ToAWE                           | M             |                                      |          |                        | -      |        |
| <b>&gt;&gt;&gt;PICH Parameters</b> |               | <i>1</i>                             |          |                        | -      |        |
| >>>>Common Physical Channel ID     | M             |                                      |          |                        | -      |        |
| >>>>TDD Channelisation Code        | M             |                                      |          |                        | -      |        |
| >>>>Time Slot                      | M             |                                      |          |                        | -      |        |
| >>>>Burst type                     | O             |                                      |          |                        | -      |        |
| >>>>Midamble shift                 | M             |                                      |          |                        | -      |        |
| >>>>TDD Physical Channel Offset    | M             |                                      |          |                        | -      |        |
| >>>>Repetition period              | M             |                                      |          |                        | -      |        |
| >>>>Repetition length              | M             |                                      |          |                        | -      |        |
| >>>>Paging Indicator Length        | M             |                                      |          |                        | -      |        |
| >>>>PICH Power                     | M             |                                      | DL Power |                        | YES    | reject |

|                                |   |   |  |  |   |  |
|--------------------------------|---|---|--|--|---|--|
| <i>PRACH</i>                   |   |   |  |  |   |  |
| > <b>PRACH</b>                 | M | 1 |  |  |   |  |
| >>Common physical channel ID   | M |   |  |  |   |  |
| >>Time Slot                    | M |   |  |  |   |  |
| >>TDD Channelisation Code      | M |   |  |  |   |  |
| >>Max PRACH Midamble Shifts    | O |   |  |  |   |  |
| >>PRACH Midamble               | M |   |  |  |   |  |
| >> <b>RACH</b>                 |   |   |  |  | - |  |
| >>>Common transport channel ID | M |   |  |  | - |  |

| 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. |

## 9.1.3 COMMON TRANSPORT CHANNEL SETUP RESPONSE

| IE/Group Name                              | Presence      | Range             | IE type and reference | Semantics description   | Criticality | Assigned Criticality |
|--|---------------|-------------------|-----------------------|---|-------------|----------------------|
| Message Discriminator                      | M             |                   |                       |   | -           |                      |
| Message Type                               | M             |                   |                       |   | YES         | reject               |
| Transaction ID                             | M             |                   |                       |   | -           |                      |
| CHOICE common transport channel configured |               |                   |                       |   | YES         | ignore               |
| ->FACH                                     |               |                   |                       |   | YES         | ignore               |
| ->FACH Parameters                          | C<br>choiceCH | 0..<maxnooffACHs> |                       | The FACH Parameters may be combined with PCH Parameters   | GLOBAL-     | ignore               |
| ->Common Transport Channel ID              | M             |                   |                       |   |             |                      |
| ->Binding ID                               | M             |                   |                       |   |             |                      |
| ->Transport layer address                  | M             |                   |                       |   |             |                      |
| ->PCH                                      |               |                   |                       |   | YES         | ignore               |
| ->PCH Parameters                           | C<br>choiceCH | 0..1              |                       | The PCH Parameters may be combined with FACH Parameters   | GLOBAL-     | ignore               |
| ->Common transport channel ID              | M             |                   |                       |   |             |                      |
| ->Binding ID                               | M             |                   |                       |   |             |                      |
| ->Transport layer address                  | M             |                   |                       |   |             |                      |
| ->RACH                                     |               |                   |                       |   | YES         | ignore               |
| ->RACH parameters                          |               | 0..1              |                       | The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters                    | GLOBAL      | ignore               |
| ->Common transport channel ID              | M             |                   |                       |   |             |                      |
| ->Binding ID                               | M             |                   |                       |   |             |                      |
| ->Transport layer address                  | M             |                   |                       |   |             |                      |
| CPCH parameters                            |               | 0..1              |                       | The CPCH Parameters shall not be combined with FACH Parameters or PCH Parameters or RACH Parameters | GLOBAL      | ignore               |
| ->Common transport channel ID              | M             |                   |                       |   |             |                      |
| ->Binding ID                               | M             |                   |                       |   |             |                      |

|                          |   |  |  |  |     |        |
|--------------------------|---|--|--|--|-----|--------|
| -Transport layer address | M |  |  |  |     |        |
| Criticality Diagnostics  | O |  |  |  | YES | ignore |

| Condition | Explanation  |
|-----------|--|
| ChoiceCh  | One of the channels FACH or PCH or both must be present. |

| Range bound  | Explanation  |
|--------------|--|
| MaxnoofFACHs | Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD]. |

#### 9.1.4 COMMON TRANSPORT CHANNEL SETUP FAILURE

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator   | M        |       |                       |                       | -           | -                    |
| Message Type            | M        |       |                       |                       | YES         | reject               |
| Transaction ID          | M        |       |                       |                       | -           | -                    |
| Cause                   | M        |       |                       |                       | YES         | ignore               |
| Criticality diagnostics | O        |       |                       |                       | YES         | ignore               |

## 9.1.5 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.5.1 FDD Message

| IE/Group Name  | Presence | Range               | IE type and reference | Semantics description              | Criticality | Assigned Criticality |
|--|----------|---------------------|-----------------------|------------------------------------|-------------|----------------------|
| Message Discriminator                                    | M        |                     |                       |                                    | –           |                      |
| Message Type   | M        |                     |                       |                                    | YES         | reject               |
| Transaction ID   | M        |                     |                       |                                    | –           |                      |
| C-ID   | M        |                     |                       |                                    | YES         | reject               |
| Configuration Generation ID                              | M        |                     |                       |                                    | YES         | reject               |
| <b>CHOICE common physical channel to be reconfigured</b> |          |                     |                       |                                    | YES         | reject               |
| <b>&gt;Secondary CCPCCH</b>                              |          |                     |                       |                                    | YES         | reject               |
| <b>&gt;&gt;FACH parameters</b>                           |          | 0..<maxFACHCell>    |                       |                                    | GLOBAL      | reject               |
| >>>Common Transport Channel ID                           | M        |                     |                       |                                    | –           |                      |
| >>>Max FACH Power  | O        |                     | DL Power              | Maximum allowed power on the FACH. | –           |                      |
| >>>ToAWS   | O        |                     |                       |                                    | –           |                      |
| >>>ToAWE   | O        |                     |                       |                                    | –           |                      |
| <b>&gt;PCH Parameters</b>                                |          | 0..1                |                       |                                    | YES         | reject               |
| >>>Common Transport Channel ID                           | M        |                     |                       |                                    | –           |                      |
| >>>PCH Power   | O        |                     | DL Power              | Power to be used on the PCH.       | –           |                      |
| >>>ToAWS   | O        |                     |                       |                                    | –           |                      |
| >>>ToAWE   | O        |                     |                       |                                    | –           |                      |
| <b>&gt;PICH Parameters</b>                               |          | 0..1                |                       |                                    | YES         | reject               |
| >>>Common Physical Channel ID                            | M        |                     |                       |                                    | –           |                      |
| >>>PICH Power  | M        |                     | DL Power              | Power to be used on the PICH.      | –           |                      |
| <b>&gt;PRACH</b>   |          |                     |                       |                                    | YES         | reject               |
| <b>&gt;&gt;PRACH Parameters</b>                          |          | 0..<maxno ofPRACHs> |                       |                                    | GLOBAL      | reject               |
| >>>Common Physical Channel ID                            | M        |                     |                       |                                    | –           |                      |
| >>>Preamble Signatures                                   | M        |                     |                       |                                    | –           |                      |
| <b>&gt;&gt;&gt;Allowed Slot Format Information</b>       |          | 0..<maxSF>          |                       |                                    | –           |                      |
| >>>>RACH Slot Format                                     | M        |                     |                       |                                    | –           |                      |
| >>>>RACH Sub Channel Numbers                             | O        |                     |                       |                                    | –           |                      |
| <b>&gt;&gt;AICH Parameters</b>                           |          | 0..<maxno ofPRACHs> |                       |                                    | GLOBAL      | reject               |

|                                   |   |                     |          |                                       |        |        |
|-----------------------------------|---|---------------------|----------|---------------------------------------|--------|--------|
|                                   |   | >                   |          |                                       |        |        |
| >>>Common Physical Channel ID     | M |                     |          |                                       | -      |        |
| >>>AICH Power                     | M |                     | DL Power | Power to be used on the AICH.         | -      |        |
| >>CPCH                            |   |                     |          |                                       | YES    | reject |
| >>>CPCH Parameters                |   | 0..<maxno of CPCHs> |          |                                       | GLOBAL | reject |
| >>>>Common Transport Channel ID   | M |                     |          |                                       | -      |        |
| >>>>UL SIR                        | Q |                     |          |                                       | -      |        |
| >>>>Initial DL transmission Power | Q |                     | DL Power |                                       | -      |        |
| >>>>Maximum DL Power              | Q |                     | DL Power |                                       | -      |        |
| >>>>Minimum DL Power              | Q |                     | DL Power |                                       | -      |        |
| >>>AP-AICH Parameters             |   | 0..<maxno of CPCHs> |          |                                       | GLOBAL | reject |
| >>>>Common Physical Channel ID    | M |                     |          |                                       | -      |        |
| >>>>AP-AICH Power                 | M |                     | DL Power |                                       | -      |        |
| >>>>CSICH Power                   | Q |                     | DL Power | For CSICH bits at end of AP-AICH slot | -      |        |
| >>>CD/CA-ICH Parameters           |   | 0..<maxno of CPCHs> |          |                                       | 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            |
| <i>MaxnoofPRACHs</i> | Maximum number of PRACHs and AICHs that can be defined in a Cell |
| <i>MaxSF</i>         | Maximum number of SF for a PRACH                                 |

### 9.1.5.2 TDD Message

| IE/Group Name                     | Presence | Range  | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-----------------------------------|----------|--------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator             | M        |        |                       |                       | -           |                      |
| Message Type                      | M        |        |                       |                       | YES         | reject               |
| Transaction ID                    | M        |        |                       |                       | -           |                      |
| C-ID                              | M        |        |                       |                       | YES         | reject               |
| Configuration Generation ID       | M        |        |                       |                       | YES         | reject               |
| <b>Secondary CCPCH parameters</b> |          | 0 .. 1 |                       |                       | YES         | reject               |



|                                    |   |                      |  |  |        |        |
|------------------------------------|---|----------------------|--|--|--------|--------|
| >CCTrCH ID                         | M |                      |  | For DL CCTrCH supporting one or several Secondary CCPCHs | –      |        |
| >Secondary CCPCHs to be configured |   | 0..<MaxnoofS CCPCHs> |  |  | GLOBAL | reject |
| >>Common physical channel ID       | M |                      |  |  | –      |        |
| >>S-CCPCH Power                    | M |                      |  | DL power   | –      |        |
| <b>PICH Parameters</b>             |   | 0 .. 1               |  |  | YES    | reject |
| >Common physical channel ID        | M |                      |  |  | –      |        |
| >PICH Power                        | M |                      |  |  | –      |        |
| <b>FACH parameters</b>             |   | 0..<Maxno ofFACHs>   |  |  | GLOBAL | reject |
| >Common Transport Channel ID       | M |                      |  |  | –      |        |
| >ToAWS                             | O |                      |  |  | –      |        |
| >ToAWE                             | O |                      |  |  | –      |        |
| <b>PCH parameters</b>              |   | 0 .. 1               |  |  | GLOBAL | reject |
| >Common Transport Channel ID       | M |                      |  |  | –      |        |
| >ToAWS                             | O |                      |  |  | –      |        |
| >ToAWE                             | O |                      |  |  | –      |        |

| Range bound        | Explanation  |
|--------------------|--|
| <i>MaxFACHCell</i> | Maximum number of FACHs that can be repeated in a Cell |

### 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator   | M        |       |                       |                       | –           |                      |
| Message Type            | M        |       |                       |                       | YES         | reject               |
| Transaction ID          | M        |       |                       |                       | –           |                      |
| Criticality diagnostics | O        |       |                       |                       | YES         | ignore               |

### 9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator   | M        |       |                       |                       | –           |                      |
| Message Type            | M        |       |                       |                       | YES         | reject               |
| Transaction ID          | M        |       |                       |                       | –           |                      |
| Cause                   | M        |       |                       |                       | YES         | ignore               |
| Criticality diagnostics | O        |       |                       |                       | YES         | ignore               |

### 9.1.8 COMMON TRANSPORT CHANNEL DELETION REQUEST

| IE/Group Name               | Presence | Range | IE type and reference | Semantics description   | Criticality | Assigned Criticality |
|-----------------------------|----------|-------|-----------------------|---|-------------|----------------------|
| Message Discriminator       | M        |       |                       |   | –           |                      |
| Message Type                | M        |       |                       |   | YES         | reject               |
| Transaction ID              | M        |       |                       |   | –           |                      |
| C-ID                        | M        |       |                       |   | YES         | reject               |
| Common Physical Channel ID  | M        |       |                       | Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted. | YES         | reject               |
| Configuration Generation ID | M        |       |                       |   | YES         | reject               |

### 9.1.9 COMMON TRANSPORT CHANNEL DELETION RESPONSE

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator   | M        |       |                       |                       | –           |                      |
| Message Type            | M        |       |                       |                       | YES         | reject               |
| Transaction ID          | M        |       |                       |                       | –           |                      |
| Criticality diagnostics | O        |       |                       |                       | YES         | ignore               |

### 9.1.10 BLOCK RESOURCE REQUEST

| IE/Group Name               | Presence                 | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-----------------------------|--------------------------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator       | M                        |       |                       |                       | –           |                      |
| Message Type                | M                        |       |                       |                       | YES         | reject               |
| Transaction ID              | M                        |       |                       |                       | –           |                      |
| C-ID                        | M                        |       |                       |                       | YES         | reject               |
| Blocking Priority Indicator | M                        |       |                       |                       | YES         | reject               |
| <b>Shutdown Timer</b>       | C-<br><i>BlockNormal</i> |       |                       |                       | YES         | reject               |

| Condition   | Explanation   |
|-------------|---|
| BlockNormal | The information element is present when the Blocking Priority Indicator IE indicates 'Normal Priority'. |

### 9.1.11 BLOCK RESOURCE RESPONSE

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator   | M        |       |                       |                       | –           |                      |
| Message Type            | M        |       |                       |                       | YES         | reject               |
| Transaction ID          | M        |       |                       |                       | –           |                      |
| Criticality diagnostics | O        |       |                       |                       | YES         | ignore               |

### 9.1.12 BLOCK RESOURCE FAILURE

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator   | M        |       |                       |                       | –           |                      |
| Message Type            | M        |       |                       |                       | YES         | reject               |
| Transaction ID          | M        |       |                       |                       | –           |                      |
| Cause                   | M        |       |                       |                       | YES         | ignore               |
| Criticality diagnostics | O        |       |                       |                       | YES         | ignore               |

### 9.1.13 UNBLOCK RESOURCE INDICATION

| IE/Group Name         | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator | M        |       |                       |                       | –           |                      |
| Message Type          | M        |       |                       |                       | YES         | ignore               |
| Transaction ID        | M        |       |                       |                       | –           |                      |
| C-ID                  | M        |       |                       |                       | YES         | ignore               |

### 9.1.14 AUDIT REQUIRED INDICATION

| IE/Group Name         | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator | M        |       |                       |                       | –           |                      |
| Message Type          | M        |       |                       |                       | YES         | ignore               |
| Transaction ID        | M        |       |                       |                       | –           |                      |

## 9.1.15 AUDIT REQUEST

| IE/Group Name         | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator | M        |       |                       |                       | –           |                      |
| Message Type          | M        |       |                       |                       | YES         | reject               |
| Transaction ID        | M        |       |                       |                       | –           |                      |

## 9.1.16 AUDIT RESPONSE

| IE/Group Name                                | Presence | Range                   | IE type and reference | Semantics description                         | Criticality | Assigned Criticality |
|--|----------|-------------------------|-----------------------|---|-------------|----------------------|
| Message Discriminator                        | M        |                         |                       |   | –           |                      |
| Message Type                                 | M        |                         |                       |   | YES         | reject               |
| Transaction ID                               | M        |                         |                       |   | –           |                      |
| <b>Node B Information</b>                    |          | 1                       |                       |   |             |                      |
| >DL or Global Capacity Credit                | M        |                         |                       |   |             |                      |
| >UL Capacity Credit                          | O        |                         |                       |   |             |                      |
| >Common Channels Capacity Consumption Law    | M        |                         |                       |   |             |                      |
| >Dedicated Channels Capacity Consumption Law | M        |                         |                       |   |             |                      |
| <b>Cell Information</b>                      |          | 0.. < maxCellin NodeB > |                       |   | EACH        | ignore               |
| >C-ID  | M        |                         |                       |   | –           |                      |
| >Configuration Generation ID                 | M        |                         |                       |   |             |                      |
| >Resource Operational State                  | M        |                         |                       |   | –           |                      |
| >Availability Status                         | M        |                         |                       |   | –           |                      |
| >Local Cell ID                               | M        |                         |                       | The local cell that the cell is configured on |             |                      |
| >Maximum DL Power Capability                 | FFS      |                         |                       |   | –           |                      |
| >Minimum Spreading Factor                    | FFS      |                         |                       |   | –           |                      |
| <b>&gt;Primary SCH Information</b>           |          | 0..1                    |                       |   | YES         | ignore               |
| >>Common Physical Channel ID                 | M        |                         |                       |   | –           |                      |
| >>Resource Operational State                 | M        |                         |                       |   | –           |                      |
| >>Availability Status                        | M        |                         |                       |   | –           |                      |
| <b>&gt;Secondary SCH Information</b>         |          | 0..1                    |                       |   | YES         | ignore               |
| >>Common Physical Channel ID                 | M        |                         |                       |   | –           |                      |
| >>Resource Operational State                 | M        |                         |                       |   | –           |                      |
| >>Availability Status                        | M        |                         |                       |   | –           |                      |
| <b>&gt;Primary CPICH Information</b>         |          | 0..1                    |                       |   | YES         | ignore               |
| >>Common Physical Channel ID                 | M        |                         |                       |   | –           |                      |
| >>Resource Operational State                 | M        |                         |                       |   | –           |                      |
| >>Availability Status                        | M        |                         |                       |   | –           |                      |
| <b>&gt;Secondary CPICH Information</b>       |          | 0..<maxSC PICHCell>     |                       |   | EACH        | ignore               |
| >>Common Physical Channel ID                 | M        |                         |                       |   | –           |                      |
| >>Resource Operational State                 | M        |                         |                       |   | –           |                      |

|  |   |                            |  |  |      |        |
|--|---|----------------------------|--|--|------|--------|
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;Primary CCPCH Information</b>   |   | 0..1                       |  |  | YES  | ignore |
| >>Common Physical Channel ID           | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;BCH Information</b>             |   | 0..1                       |  |  | YES  | ignore |
| >>Common Transport Channel ID          | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;Secondary CCPCH Information</b> |   | 0..<maxSC<br>CPCHCell<br>> |  |  | EACH | ignore |
| >>Common Physical Channel ID           | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;PCH Information</b>             |   | 0..1                       |  |  | EACH | ignore |
| >>Common Transport Channel ID          | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;PICH Information</b>            |   | 0..1                       |  |  | YES  | ignore |
| >>Common Physical Channel ID           | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;FACH Information</b>            |   | 0..<maxFA<br>CHCell>       |  |  | EACH | ignore |
| >>Common Transport Channel ID          | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;PRACH Information</b>           |   | 0..<maxPR<br>ACHCell>      |  |  | EACH | ignore |
| >>Common Physical Channel ID           | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;RACH Information</b>            |   | 0..<maxRA<br>CHCell>       |  |  | EACH | ignore |
| >>Common Transport Channel ID          | M |                            |  |  | –    |        |
| >>Resource Operational State           | M |                            |  |  | –    |        |
| >>Availability Status                  | M |                            |  |  | –    |        |
| <b>&gt;AICH Information</b>            |   | 0..<maxRA<br>CHCell>       |  |  | EACH | ignore |
| >>Common Physical Channel ID           | M |                            |  |  | –    |        |

|   |          |  |  |  |      |        |
|---|----------|--|--|--|------|--------|
| >>Resource Operational State                  | M        |  |  |  | –    |        |
| >>Availability Status                         | M        |  |  |  | –    |        |
| <b>&gt;PCPCH Information</b>                  |          | <i>0..&lt;maxPC PCHCell&gt;</i>          |  |  | EACH | ignore |
| >>Common Physical Channel ID                  | <u>M</u> |  |  |  | =    |        |
| >>Resource Operational State                  | <u>M</u> |  |  |  | =    |        |
| >>Availability Status                         | <u>M</u> |  |  |  | =    |        |
| <b>&gt;CPCH Information</b>                   |          | <i>0..&lt;maxCP CHCell&gt;</i>           |  |  | EACH | ignore |
| >>Common Transport Channel ID                 | <u>M</u> |  |  |  | =    |        |
| >>Resource Operational State                  | <u>M</u> |  |  |  | =    |        |
| >>Availability Status                         | <u>M</u> |  |  |  | =    |        |
| <b>&gt;AP-AICH Information</b>                |          | <i>0..&lt;maxCP CHCell&gt;</i>           |  |  | EACH | ignore |
| >>Common Physical Channel ID                  | <u>M</u> |  |  |  |      |        |
| >>Resource Operational State                  | <u>M</u> |  |  |  |      |        |
| >>Availability Status                         | <u>M</u> |  |  |  |      |        |
| <b>&gt;CD/CA-ICH Information</b>              |          | <i>0..&lt;maxCP CHCell&gt;</i>           |  |  | EACH | ignore |
| >>Common Physical Channel ID                  | <u>M</u> |  |  |  |      |        |
| >>Resource Operational State                  | <u>M</u> |  |  |  |      |        |
| >>Availability Status                         | <u>M</u> |  |  |  |      |        |
| <b>&gt;SCH Information</b>                    |          | 0..1                                     |  |  | YES  | ignore |
| >>Common Transport Channel ID                 | M        |  |  |  | –    |        |
| >>Resource Operational State                  | M        |  |  |  | –    |        |
| >>Availability Status                         | M        |  |  |  | –    |        |
| <b>Communication Control Port Information</b> |          | <i>0.. &lt;maxCCPi nNodeB&gt;</i>        |  |  | EACH | ignore |
| >Communication Control Port ID                | M        |  |  |  | –    |        |
| >Resource Operational State                   | M        |  |  |  | –    |        |
| >Availability Status                          | M        |  |  |  | –    |        |
| <b>Local Cell Information</b>                 |          | <i>0.. &lt;maxLocal CellinNode B&gt;</i> |  |  | EACH | ignore |
| >Local Cell ID                                | M        |  |  |  | –    |        |
| >DL or Global Capacity Credit                 | M        |  |  |  |      |        |
| >UL Capacity Credit                           | O        |  |  |  |      |        |
| >Common Channels Capacity Consumption Law     | M        |  |  |  |      |        |
| >Dedicated Channels Capacity Consumption Law  | M        |  |  |  |      |        |

|                              |   |  |  |  |     |        |
|------------------------------|---|--|--|--|-----|--------|
| >Maximum DL Power Capability | O |  |  |  | -   |        |
| Criticality diagnostics      | O |  |  |  | YES | ignore |

| Range bound                  | Explanation  |
|------------------------------|--|
| maxCellinNodeB               | Maximum number of Cell that can be configured in Node B                    |
| maxCCPinNodeB                | Maximum number of communication control ports that can exist in the Node B |
| <a href="#">maxCPCHCell</a>  | <a href="#">Maximum number of CPCHes that can be defined in a Cell</a>     |
| maxLocalCellinNodeB          | Maximum number of Local Cells that can exist in the Node B                 |
| <a href="#">maxPCPCHCell</a> | <a href="#">Maximum number of PCPCHes that can be defined in a Cell</a>    |
| 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                     |

### 9.1.17 COMMON MEASUREMENT INITIATION REQUEST

| IE/Group Name                                       | Presence          | Range | IE Type and Reference                                 | Semantics Description    | Criticality         | Assigned Criticality   |
|---|-------------------|-------|---|--------------------------|---------------------|------------------------|
| Message Discriminator                               | M                 |       |   |                          | -                   |                        |
| Message Type  | M                 |       |   |                          | YES                 | reject                 |
| Transaction Id                                      | M                 |       |   |                          | -                   |                        |
| Measurement Id                                      | M                 |       |   |                          | YES                 | reject                 |
| Common Measurement Object Type                      | M                 |       |   |                          | YES                 | reject                 |
| CHOICE Common Measurement Object Type               |                   |       |   |                          | YES                 | ignore                 |
| >"Cell"   |                   |       |   |                          | YES                 | reject                 |
| >>C-ID  | M                 |       |   |                          | -                   |                        |
| >>Time Slot   | O                 |       |   | TDD only                 | -                   |                        |
| >"RACH"   |                   |       |   |                          | YES                 | reject                 |
| >>C-ID  | M                 |       |   |                          | -                   |                        |
| >>Common transport channel ID                       | M                 |       |   |                          | -                   |                        |
| <a href="#">&gt;"CPCH"</a>                          |                   |       |   | <a href="#">FDD only</a> | <a href="#">YES</a> | <a href="#">reject</a> |
| <a href="#">&gt;&gt;C-ID</a>                        | <a href="#">M</a> |       |   |                          | <a href="#">-</a>   |                        |
| <a href="#">&gt;&gt;Common transport channel ID</a> | <a href="#">M</a> |       |   |                          | <a href="#">-</a>   |                        |
| <a href="#">&gt;&gt;Spreading Factor</a>            | <a href="#">O</a> |       | <a href="#">Minimum UL Channelisation Code Length</a> |                          | <a href="#">-</a>   |                        |
| Common Measurement Type                             | M                 |       |   |                          | YES                 | reject                 |
| Measurement Filter Coefficient                      | O                 |       |   |                          | YES                 | reject                 |
| Report Characteristics                              | M                 |       |   |                          | YES                 | reject                 |



## 9.1.18 COMMON MEASUREMENT INITIATION RESPONSE

| IE/Group Name                                   | Presence | Range | IE Type and Reference | Semantics Description                       | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------|---|-------------|----------------------|
| Message Discriminator                           | M        |       |                       |   | –           |                      |
| Message Type                                    | M        |       |                       |   | YES         | reject               |
| Transaction Id                                  | M        |       |                       |   | –           |                      |
| Measurement Id                                  | M        |       |                       |   | YES         | ignore               |
| CHOICE Common<br><i>Measurement Object Type</i> |          |       |                       |   | YES         | ignore               |
| >"Cell"   |          |       |                       |   | YES         | ignore               |
| >>Common<br>Measurement value                   | M        |       |                       |   | –           |                      |
| >"RACH"   |          |       |                       |   | YES         | ignore               |
| >>Common<br>Measurement Value                   | M        |       |                       |   | –           |                      |
| >"CPCH"   |          |       |                       | FDD only                                    | YES         | ignore               |
| >>Common<br>Measurement Value                   | M        |       |                       |   | =           |                      |
| SFN   | O        |       |                       | Common<br>Measuremen<br>t Time<br>Reference | YES         | ignore               |
| Criticality Diagnostics                         | O        |       |                       |   | YES         | ignore               |

## 9.1.19 COMMON MEASUREMENT INITIATION FAILURE

| IE/Group Name           | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator   | M        |       |                       |                       | –           |                      |
| Message Type            | M        |       |                       |                       | YES         | reject               |
| Transaction Id          | M        |       |                       |                       | –           |                      |
| Measurement Id          | M        |       |                       |                       | YES         | ignore               |
| Cause                   | M        |       |                       |                       | YES         | ignore               |
| Criticality diagnostics | O        |       |                       |                       | YES         | ignore               |

## 9.1.20 COMMON MEASUREMENT REPORT

| IE/Group Name                                   | Presence | Range | IE Type and Reference | Semantics Description                       | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------|---|-------------|----------------------|
| Message Discriminator                           | M        |       |                       |   | –           |                      |
| Message Type                                    | M        |       |                       |   | YES         | ignore               |
| Transaction Id                                  | M        |       |                       |   | –           |                      |
| Measurement Id                                  | M        |       |                       |   | YES         | ignore               |
| CHOICE Common<br><i>Measurement Object Type</i> |          |       |                       |   | YES         | ignore               |
| >"Cell"   |          |       |                       |   | YES         | ignore               |
| >>Common<br>Measurement value                   | M        |       |                       |   | –           |                      |
| >"RACH"   |          |       |                       |   | YES         | ignore               |
| >>Common<br>Measurement Value                   | M        |       |                       |   | –           |                      |
| >"CPCH"   |          |       |                       | FDD only                                    | YES         | ignore               |
| >>Common<br>Measurement Value                   | M        |       |                       |   | =           |                      |
| SFN   | O        |       |                       | Common<br>Measuremen<br>t Time<br>Reference | YES         | ignore               |

### 9.1.21 COMMON MEASUREMENT TERMINATION REQUEST

| IE/Group Name         | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator | M        |       |                       |                       | –           |                      |
| Message Type          | M        |       |                       |                       | YES         | ignore               |
| Transaction Id        | M        |       |                       |                       | –           |                      |
| Measurement Id        | M        |       |                       |                       | YES         | ignore               |

### 9.1.22 COMMON MEASUREMENT FAILURE INDICATION

| IE/Group Name         | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator | M        |       |                       |                       | –           |                      |
| Message Type          | M        |       |                       |                       | YES         | ignore               |
| Transaction Id        | M        |       |                       |                       | –           |                      |
| Measurement Id        | M        |       |                       |                       | YES         | ignore               |
| Cause                 | M        |       |                       |                       | YES         | ignore               |

## 9.1.31 RESOURCE STATUS INDICATION

| IE/Group Name   | Presence | Range                        | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|---|----------|------------------------------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator                                 | M        |                              |                       |                       | –           |                      |
| Message Type  | M        |                              |                       |                       | YES         | ignore               |
| Transaction ID  | M        |                              |                       |                       | –           |                      |
| Indication Type                                       | M        |                              |                       |                       | 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        |                              |                       |                       |             |                      |
| >>>UL Capacity Credit                                 | O        |                              |                       |                       |             |                      |
| >>>Common Channels Capacity Consumption Law           | M        |                              |                       |                       |             |                      |
| >>>Dedicated Channels Capacity Consumption Law        | M        |                              |                       |                       |             |                      |
| <b>&gt;&gt;Local Cell Information</b>                 |          | 1.. <max LocalCellIn NodeB > |                       |                       | EACH        | ignore               |
| >>>Local Cell ID                                      | M        |                              |                       |                       | –           |                      |
| >>>Add/Delete Indicator                               | M        |                              |                       |                       | –           |                      |
| >>>DL or Global Capacity Credit                       | C-add    |                              |                       |                       |             |                      |
| >>>UL Capacity Credit                                 | O        |                              |                       |                       |             |                      |
| >>>Common Channels Capacity Consumption Law           | C-add    |                              |                       |                       |             |                      |
| >>>Dedicated Channels Capacity Consumption Law        | C-add    |                              |                       |                       |             |                      |
| >>>Maximum DL Power Capability                        | M        |                              |                       |                       | –           |                      |
| >"Service Impacting"                                  |          |                              |                       |                       | YES         | ignore               |
| <b>&gt;&gt;Node B Information</b>                     |          | 0..1                         |                       |                       |             |                      |
| >>>DL or Global Capacity Credit                       | O        |                              |                       |                       |             |                      |
| >>>UL Capacity Credit                                 | O        |                              |                       |                       |             |                      |
| <b>&gt;&gt;Local Cell Information</b>                 |          | 0.. <maxLocal CellInNode B>  |                       |                       | EACH        | ignore               |
| >>>Local Cell ID                                      | M        |                              |                       |                       | –           |                      |
| >>>DL or Global Capacity Credit                       | O        |                              |                       |                       |             |                      |
| >>>UL Capacity Credit                                 | O        |                              |                       |                       |             |                      |
| >>>Maximum DL Power Capability                        | O        |                              |                       |                       | –           |                      |
| <b>&gt;&gt;Communication Control Port Information</b> |          | 0.. <maxCCPi nNodeB>         |                       |                       | EACH        | ignore               |

|  |     |                                  |  |  |      |        |
|--|-----|----------------------------------|--|--|------|--------|
| >>>Communication Control Port ID           | M   |                                  |  |  | -    |        |
| >>>Resource Operational State              | M   |                                  |  |  | -    |        |
| >>>Availability Status                     | M   |                                  |  |  | -    |        |
| <b>&gt;&gt;Cell Information</b>            |     | <i>0..&lt;maxCellinNodeB&gt;</i> |  |  | EACH | ignore |
| >>>C-ID                                    | M   |                                  |  |  | -    |        |
| >>>Resource Operational State              | M   |                                  |  |  | -    |        |
| >>>Availability Status                     | M   |                                  |  |  | -    |        |
| >>>Maximum DL Power Capability             | FFS |                                  |  |  | -    |        |
| >>>Minimum Spreading Factor                | FFS |                                  |  |  | -    |        |
| <b>&gt;&gt;Primary SCH Information</b>     |     | <i>0..1</i>                      |  |  | YES  | ignore |
| >>>Common Physical Channel ID              | M   |                                  |  |  | -    |        |
| >>>Resource Operational State              | M   |                                  |  |  | -    |        |
| >>>Availability Status                     | M   |                                  |  |  | -    |        |
| <b>&gt;&gt;Secondary SCH Information</b>   |     | <i>0..1</i>                      |  |  | YES  | ignore |
| >>>Common Physical Channel ID              | M   |                                  |  |  | -    |        |
| >>>Resource Operational State              | M   |                                  |  |  | -    |        |
| >>>Availability Status                     | M   |                                  |  |  | -    |        |
| <b>&gt;&gt;Primary CPICH Information</b>   |     | <i>0..1</i>                      |  |  | YES  | ignore |
| >>>Common Physical Channel ID              | M   |                                  |  |  | -    |        |
| >>>Resource Operational State              | M   |                                  |  |  | -    |        |
| >>>Availability Status                     | M   |                                  |  |  | -    |        |
| <b>&gt;&gt;Secondary CPICH Information</b> |     | <i>0..&lt;maxSCPICHCell&gt;</i>  |  |  | EACH | ignore |
| >>>Common Physical Channel ID              | M   |                                  |  |  | -    |        |
| >>>Resource Operational State              | M   |                                  |  |  | -    |        |
| >>>Availability Status                     | M   |                                  |  |  | -    |        |
| <b>&gt;&gt;Primary CCPCH Information</b>   |     | <i>0..1</i>                      |  |  | YES  | ignore |
| >>>Common Physical Channel ID              | M   |                                  |  |  | -    |        |
| >>>Resource Operational State              | M   |                                  |  |  | -    |        |
| >>>Availability                            | M   |                                  |  |  | -    |        |

|  |   |                     |  |  |      |        |
|--|---|---------------------|--|--|------|--------|
| Status                                     |   |                     |  |  |      |        |
| <b>&gt;&gt;BCH Information</b>             |   | 0..1                |  |  | YES  | ignore |
| >>>Common Transport Channel ID             | M |                     |  |  | -    |        |
| >>>Resource Operational State              | M |                     |  |  | -    |        |
| >>>Availability Status                     | M |                     |  |  | -    |        |
| <b>&gt;&gt;Secondary CCPCH Information</b> |   | 0..<maxSC CPCHCell> |  |  | EACH | ignore |
| >>>Common Physical Channel ID              | M |                     |  |  | -    |        |
| >>>Resource Operational State              | M |                     |  |  | -    |        |
| >>>Availability Status                     | M |                     |  |  | -    |        |
| <b>&gt;&gt;PCH Information</b>             |   | 0..1                |  |  | EACH | ignore |
| >>>Common Transport Channel ID             | M |                     |  |  | -    |        |
| >>>Resource Operational State              | M |                     |  |  | -    |        |
| >>>Availability Status                     | M |                     |  |  | -    |        |
| <b>&gt;&gt;PICH Information</b>            |   | 0..1                |  |  | YES  | ignore |
| >>>Common Physical Channel ID              | M |                     |  |  | -    |        |
| >>>Resource Operational State              | M |                     |  |  | -    |        |
| >>>Availability Status                     | M |                     |  |  | -    |        |
| <b>&gt;&gt;FACH Information</b>            |   | 0..<maxFACHCell>    |  |  | EACH | ignore |
| >>>Common Transport Channel ID             | M |                     |  |  | -    |        |
| >>>Resource Operational State              | M |                     |  |  | -    |        |
| >>>Availability Status                     | M |                     |  |  | -    |        |
| <b>&gt;&gt;PRACH Information</b>           |   | 0..<maxPRACHCell>   |  |  | EACH | ignore |
| >>>Common Physical Channel ID              | M |                     |  |  | -    |        |
| >>>Resource Operational State              | M |                     |  |  | -    |        |
| >>>Availability Status                     | M |                     |  |  | -    |        |
| <b>&gt;&gt;RACH Information</b>            |   | 0..<maxPRACHCell>   |  |  | EACH | ignore |
| >>>Common Transport Channel ID             | M |                     |  |  | -    |        |
| >>>Resource Operational State              | M |                     |  |  | -    |        |

|                                |   |                           |  |  |      |        |
|--------------------------------|---|---------------------------|--|--|------|--------|
| >>>Availability Status         | M |                           |  |  | -    |        |
| >>AICH Information             |   | 0..<br><maxPRA<br>CHCell> |  |  | EACH | ignore |
| >>>Common Physical Channel ID  | M |                           |  |  | -    |        |
| >>>Resource Operational State  | M |                           |  |  | -    |        |
| >>>Availability Status         | M |                           |  |  | -    |        |
| >>PCPCH Information            |   | 0..<maxPC<br>PCHCell>     |  |  | EACH | ignore |
| >>>Common Physical Channel ID  | M |                           |  |  | =    |        |
| >>>Resource Operational State  | M |                           |  |  | =    |        |
| >>>Availability Status         | M |                           |  |  | =    |        |
| >>CPCH Information             |   | 0..<br><maxCPC<br>HCell>  |  |  | EACH | ignore |
| >>>Common Transport Channel ID | M |                           |  |  | =    |        |
| >>>Resource Operational State  | M |                           |  |  | =    |        |
| >>>Availability Status         | M |                           |  |  | =    |        |
| >>AP-AICH Information          |   | 0..<br><maxCPC<br>HCell>  |  |  | EACH | ignore |
| >>>Common Physical Channel ID  | M |                           |  |  | =    |        |
| >>>Resource Operational State  | M |                           |  |  | =    |        |
| >>>Availability Status         | M |                           |  |  | =    |        |
| >>CD/CA-ICH Information        |   | 0..<br><maxCPC<br>HCell>  |  |  | EACH | ignore |
| >>>Common Physical Channel ID  | M |                           |  |  | =    |        |
| >>>Resource Operational State  | M |                           |  |  | =    |        |
| >>>Availability Status         | M |                           |  |  | =    |        |
| >>SCH Information              |   | 0..1                      |  |  | YES  | ignore |
| >>>Common Transport Channel ID | M |                           |  |  | -    |        |
| >>>Resource Operational State  | M |                           |  |  | -    |        |
| >>>Availability Status         | M |                           |  |  | -    |        |
| Cause                          | O |                           |  |  | 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 Information Element Functional Definition and Contents

### 9.2.1 Common parameters

#### 9.2.1.1 Add/Delete Indicator

The add/delete indicator shall notify the RNC whether the associated resource has been added to or removed from the Node B.

| IE/Group Name        | Presence | Range | IE type and reference   | Semantics description |
|----------------------|----------|-------|-------------------------|-----------------------|
| Add/Delete Indicator |          |       | ENUMERATED(Add, Delete) |                       |

#### 9.2.1.2 Availability Status

The availability status is used to indicate more detailed information of the availability of the resource. In accordance with [6], following values are defined. If the value of this attribute is an empty set, this implies that none of the status conditions described in [6] are present.

| IE/Group Name       | Presence | Range | IE type and reference  | Semantics description |
|---------------------|----------|-------|--|-----------------------|
| Availability Status |          |       | ENUMERATED (empty, in test, failed, power off, off line, off duty, dependency, degraded, not installed, log full, ...) |                       |

### 9.2.1.3 BCCH Modification Time

Indicates the time after which the new system information shall be applied on BCCH.

| IE/Group Name          | Presence | Range | IE type and reference       | Semantics description   |
|------------------------|----------|-------|-----------------------------|---|
| BCCH Modification Time |          |       | Integer (0, 2, 4, ...,4094) | All even SFN values are allowed<br>The tabular description is a direct copy from TS 25.331 CR 078 |

### 9.2.1.4 Binding ID

The Binding ID is the identifier of a user data stream. It is allocated at Node B and it is unique for each transport bearer under establishment to/from the Node B. The length of this parameter is variable.

| IE/Group Name | Presence | Range | IE type and reference  | Semantics description |
|---------------|----------|-------|------------------------|-----------------------|
| Binding ID    |          |       | Octetstring (1..4,...) |                       |

### 9.2.1.5 Blocking Priority Indicator

The Blocking priority indicator shall indicate the immediacy with which a resource should be blocked from use. The following priority classes shall be supported in the Blocking priority indicator.

| IE/Group Name               | Presence | Range | IE type and reference          | Semantics description  |
|-----------------------------|----------|-------|--------------------------------|--|
| Blocking Priority Indicator |          |       | ENUMERATED (High, Normal, Low) | High priority: Block resource immediately.<br>Normal priority: Block resource when idle or upon timer expiry.<br>Low priority: Block resource when idle. |



## 9.2.1.6 Cause

| IE/Group Name                | Presence | Range | IE type and reference   | Semantics description |
|------------------------------|----------|-------|---|-----------------------|
| CHOICE <i>Cause group</i>    |          |       |   |                       |
| > <i>Radio Network Layer</i> |          |       |   |                       |
| >Radio Network Layer Cause   | M        |       | Enumerated<br>(unknown C-ID,<br>Cell not available,<br>Power level not supported,<br>UL scrambling code already in use,<br>DL radio resources not available,<br>UL radio resources not available,<br>RL Already Activated/allocated,<br>Node B Resources Unavailable,<br>Insufficient physical channel resources,<br>Measurement not supported for the object,<br>Macrodiversity combining not possible,<br>Reconfiguration not allowed,<br>Requested configuration not supported,<br>Synchronization failure,<br>Priority transport channel established,SIB Origination in Node B not Supported,<br>Unspecified) |                       |
| > <i>Transport Layer</i>     |          |       |   |                       |
| >Transport Layer Cause       | M        |       | Enumerated<br>(Transport link failure,<br>Transmission port not available,<br>Transport resource unavailable,<br>Unspecified)   |                       |
| > <i>Protocol</i>            |          |       |   |                       |
| >Protocol Cause              |          |       | Enumerated<br>(Transaction not allowed,<br>Transfer syntax error,<br>Abstract syntax error (reject),<br>Abstract syntax error (ignore and notify),<br>Message not compatible with receiver state,<br>Semantic error,<br>Unspecified)  |                       |
| > <i>Misc</i>                |          |       |   |                       |
| >Miscellaneous Cause         | M        |       | Enumerated<br>(Control processing overload<br>Hardware failure,<br>O&M intervention,<br>Not enough user plane processing resources,<br>Unspecified)   |                       |

## 9.2.1.7 CFN

Connection Frame Number for the radio connection, see ref. [25.402].

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| CFN           |          |       | Integer (0..255)      |                       |

### 9.2.1.8 C-ID

The C-ID (Cell identifier) is the identifier of a cell in one RNC.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| C-ID          |          |       | INTEGER (0...65535)   |                       |

### 9.2.1.9 Common Measurement Object Type

The Common Measurement Object type indicates the type of object that the measurement is to be performed on.

| IE/Group Name                  | Presence | Range | IE Type and Reference             | Semantics Description |
|--------------------------------|----------|-------|-----------------------------------|-----------------------|
| Common Measurement Object Type |          |       | ENUMERATED (CELL, RACH, CPCH,...) |                       |

### 9.2.1.10 Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

| IE/Group Name           | Presence | Range | IE Type and Reference   | Semantics Description |
|-------------------------|----------|-------|---|-----------------------|
| Common Measurement Type |          |       | ENUMERATED (RSSI, Transmitted Carrier Power, Acknowledged RA tries, Timeslot ISCP, Acknowledged PCPCH Access Preambles, Detected PCPCH Access Preambles, ...) |                       |

### 9.2.1.11 Common Measurement Value

The Common Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

| IE/Group Name                                   | Presence              | Range | IE Type and Reference | Semantics Description   |
|---|-----------------------|-------|-----------------------|---|
| >Transmitted Carrier Power Value                | C<br><i>MeasValue</i> |       | INTEGER(0..100)       | According to mapping in 25.215/25.225                                     |
| >RSSI Value                                     | C<br><i>MeasValue</i> |       | INTEGER(0..63)        | According to mapping in 25.215/25.225                                     |
| >Acknowledged RA tries Value                    | C<br><i>MeasValue</i> |       | INTEGER(0..240, ...)  | The number of L1 acknowledged random access tries per every 20 ms period. |
| >Timeslot ISCP (TDD only)                       | C<br><i>MeasValue</i> |       | INTEGER(0..81)        | According to mapping in 25.225  |
| >Acknowledged PCPCH Access Preambles (FDD only) | C<br><i>MeasValue</i> |       | INTEGER(0..15)        | According to mapping in [4]   |
| >Detected PCPCH Access Preambles (FDD only)     | C<br><i>MeasValue</i> |       | INTEGER(0..240)       | According to mapping in [4]   |

| Condition        | Explanation   |
|------------------|---|
| <i>MeasValue</i> | Only one measurement value can be present at the same time. |

#### 9.2.1.12 Common Physical Channel Id

Common Physical Channel Id is the unique identifier for one common physical channel within a cell.

| IE/Group Name              | Presence | Range | IE type and reference | Semantics description |
|----------------------------|----------|-------|-----------------------|-----------------------|
| Common Physical Channel ID |          |       | Integer(0..255)       |                       |

#### 9.2.1.13 Common Transport Channel Id

Common Transport Channel Id is the unique identifier for one common transport channel within a cell.

| IE/Group Name               | Presence | Range | IE type and reference | Semantics description |
|-----------------------------|----------|-------|-----------------------|-----------------------|
| Common Transport Channel ID |          |       | Integer(0..255)       |                       |

#### 9.2.1.14 Communication Control Port ID

A Communication Control Port corresponds to one signalling bearer between the RNC and Node B for the control of Node B Communication Contexts. Node B may have multiple Communication Control Ports (one per Traffic Termination Point). The Communication Control Port is selected at creation of the Node B Communication Context. The Communication Control Port ID is the identifier of the Communication Control Port.

| IE/Group Name                 | Presence | Range | IE type and reference | Semantics description |
|-------------------------------|----------|-------|-----------------------|-----------------------|
| Communication Control Port ID |          |       | INTEGER (0..65535)    |                       |

### 9.2.1.15 Configuration Generation ID

The Configuration Generation ID describes the generation of the configuration of logical resources in a cell.

| IE/Group Name               | Presence | Range | IE type and reference | Semantics description  |
|-----------------------------|----------|-------|-----------------------|--|
| Configuration Generation ID |          |       | Integer(0..255)       | Value '0' means "No configuration".<br>At possible wraparound of the ID counter in CRNC the value '0' shall not be used. |

### 9.2.1.16 Criticality diagnostics

| 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, 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 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. The value for maxnooferrors is 256. |

### 9.2.1.17 CRNC Communication Context ID

The CRNC Communication Context ID is the identifier of the Communication Context in the CRNC.

| IE/Group Name                 | Presence | Range | IE type and reference           | Semantics description |
|-------------------------------|----------|-------|---------------------------------|-----------------------|
| CRNC Communication Context ID |          |       | INTEGER (0..2 <sup>20</sup> -1) |                       |

### 9.2.1.18 DCH Combination Indicator

The DCH Combination Indicator is used to indicate the multiplexing of more than one DCH on transport bearer. The value should be unique for each group of coordinated DCH's per request message.

| IE/Group Name       | Presence | Range | IE type and reference | Semantics description |
|---------------------|----------|-------|-----------------------|-----------------------|
| DCH Combination Ind |          |       | INTEGER (0..255)      |                       |

### 9.2.1.19 DCH ID

The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| DCH ID        |          |       | INTEGER (0..255)      |                       |

### 9.2.1.20 DL Power

The DL Power IE indicates a power level relative to the [FDD-primary CPICH power] [TDD-primary CCPCH power] configured in a cell [FDD-If referred to a DPCH, it indicates the power of the DPDCH symbols].

| IE/Group Name | Presence | Range | IE type and reference  | Semantics description |
|---------------|----------|-------|------------------------|-----------------------|
| DL Power      |          |       | Enumerated(-35..+15dB) | Step 0.1dB            |

### 9.2.1.21 Dedicated Measurement Object Type

The Dedicated Measurement Object type indicates the type of object that the measurement is to be performed on.

| IE/Group Name                     | Presence | Range | IE Type and Reference                     | Semantics Description |
|-----------------------------------|----------|-------|---|-----------------------|
| Dedicated Measurement Object Type |          |       | ENUMERATED (RL, RLS, ALL RL, ALL RLS,...) |                       |

### 9.2.1.22 Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.

| IE/Group Name              | Presence | Range | IE Type and Reference   | Semantics Description     |
|----------------------------|----------|-------|---|---------------------------|
| Dedicated Measurement Type |          |       | ENUMERATED (SIR, SIR Error, Transmitted Code Power, RSCP,...) | RSCP is used by TDD only. |

Note. For definitions of the measurement types refer to 25.215 and 25.225.

### 9.2.1.23 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

| IE/Group Name                      | Presence              | Range | IE Type and Reference | Semantics Description   |
|------------------------------------|-----------------------|-------|-----------------------|---|
| <b>Dedicated measurement Value</b> |                       |       |                       |   |
| >SIR value                         | C<br><i>MeasValue</i> |       | INTEGER(0..63)        | According to mapping in 25.215/25.225   |
| >SIR error Value                   | C<br><i>MeasValue</i> |       | INTEGER(0..125)       | SIR_Error=SIR-SIR_target<br>0: < -31.0 dB<br>1: -31.0dB ≤ SIR_Error < 30.5dB<br>2: -30.5dB ≤ SIR_Error < 30.0dB<br>...<br>62: -0.5dB ≤ SIR_Error < 0dB<br>63: 0dB ≤ SIR_Error < 0.5dB<br>...<br>124: 30.5dB ≤ SIR_Error < 31dB<br>125: ≥ 31dB |
| >Transmitted Code Power Value      | C<br><i>MeasValue</i> |       | INTEGER(0..127)       | According to mapping in 25.215/25.225   |
| >RSCP                              | C<br><i>MeasValue</i> |       | INTEGER(0..81)        | According to mapping in 25.225  |

| Condition        | Explanation   |
|------------------|---|
| <i>MeasValue</i> | Only one measurement value can be present at the same time. |

### 9.2.1.24 DSCH ID

The DSCH ID uniquely identifies a DSCH within a Node B Communication Context.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| DSCH ID       |          |       | INTEGER (0..255)      |                       |

### 9.2.1.25 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

### 9.2.1.26 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

### 9.2.1.27 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH/DSCH for temporary restriction of the allocated resources due overload reason.

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description                |
|-------------------------|----------|-------|-----------------------|--------------------------------------|
| Frame Handling Priority |          |       | INTEGER (0..15)       | 0=lower priority, 15=higher priority |

### 9.2.1.28 Frame Offset

Frame Offset is the required offset between the dedicated channel downlink transmission frames (CFN, Connection Frame Number) and the broadcast channel frame offset (Cell Frame Number). The Frame\_offset is used in the translation between Connection Frame Number (CFN) on lub/lur and least significant 8 bits of SFN (System Frame Number) on Uu. The Frame Offset is UE and cell specific.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| Frame Offset  |          |       | INTEGER (0..255)      | Frames                |

### 9.2.1.29 IB\_SG\_DATA

Segment which is part of an Information Block.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description                           |
|---------------|----------|-------|-----------------------|---|
| IB SG DATA    |          |       | Bit String            | "SIB data" in segment as defined in ref:25.331. |

### 9.2.1.30 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.. 2046)    | Only even positions allowed. Reference TS 25.331 |

### 9.2.1.31 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     |          |       | INTEGER (4, 8, 16, 32, 64, 128, 256, 512, 1024,2048) | Repetition period for the IB segment in frames |

### 9.2.1.32 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, ...) |                       |

### 9.2.1.33 Indication Type

The indication type shall indicate the category of a failure with respect to its impact on the logical resources supported at Node B.

| IE/Group Name   | Presence | Range | IE type and reference                           | Semantics description  |
|-----------------|----------|-------|---|--|
| Indication Type |          |       | ENUMERATED (No Failure, Service Impacting, ...) | Service Impacting – The failure has impacted on the logical resources supported at Node B. |

### 9.2.1.34 Local Cell ID

The local cell ID represents resources in Node B that can be used for the configuration of a cell.

| IE/Group Name | Presence | Range | IE Type and Reference   | Semantics Description |
|---------------|----------|-------|-------------------------|-----------------------|
| Local Cell ID |          |       | INTEGER(0 ...268435455) |                       |

### 9.2.1.35 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell within Node B.

| IE/Group Name               | Presence | Range | IE type and reference | Semantics description  |
|-----------------------------|----------|-------|-----------------------|------------------------|
| Maximum DL Power Capability |          |       | ENUMERATED(0...50)    | dBm, granularity 1 dBm |

### 9.2.1.36 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.



| IE/Group Name              | Presence | Range | IE Type and Reference    | Semantics Description        |
|----------------------------|----------|-------|--------------------------|------------------------------|
| Maximum transmission Power |          |       | ENUMERATED(0, 1, 2 ..50) | Unit dBm<br>Granularity 1 dB |

### 9.2.1.37 Measurement ID

The Measurement Id uniquely identifies any measurement per (Node B- or communication) control port.

| IE/Group Name  | Presence | Range | IE Type and Reference            | Semantics Description |
|----------------|----------|-------|----------------------------------|-----------------------|
| Measurement ID |          |       | Integer(0 .. 2 <sup>20</sup> -1) |                       |

### 9.2.1.39 Report Characteristics

The report characteristics, defines how the reporting shall be performed.

| IE/Group Name                             | Presence     | Range | IE Type and Reference   | Semantics Description  |
|---|--------------|-------|---|--|
| <b>Report characteristics</b>             |              |       |   |  |
| >Report characteristics type              |              |       | ENUMERATED(On Demand, Periodic, Event A, Event B, Event C, Event D, Event E, Event F,...) |  |
| <b>&gt;Periodic Report Information</b>    | C – Periodic |       |   |  |
| >>Report Periodicity                      | M            |       | ENUMERATED (10ms...1min) step 10ms, (1min...1hr) step 1min                                | The frequency with which the Node B shall send measurement reports. First working assumption!    |
| <b>&gt;Event A</b>                        | C – Event A  |       |   |  |
| >>Measurement Threshold                   | M            |       | Measurement Threshold   | The threshold for which the Node B shall trigger a measurement report.                           |
| >>Measurement Hysteresis Time             | O            |       | ENUMERATED (10ms...1min) step 10ms,...  |  |
| <b>&gt;Event B</b>                        | C – Event B  |       |   |  |
| >>Measurement Threshold                   | M            |       | Measurement Threshold   | The threshold for which the Node B shall trigger a measurement report.                           |
| >>Measurement Hysteresis Time             | O            |       | ENUMERATED (10ms...1min) step 10ms,...  |  |
| <b>&gt;Event C</b>                        | C – Event C  |       |   |  |
| >>Measurement Increase/Decrease Threshold | M            |       | Measurement Increase/Decrease Threshold   |  |
| >>Measurement Change Time                 | M            |       | ENUMERATED (10ms...1min) step 10ms,...  | The time the measurement entity shall rise on (in ms), in order to trigger a measurement report. |
| <b>&gt;Event D</b>                        | C – Event D  |       |   |  |
| >>Measurement Increase/Decrease Threshold | M            |       | Measurement Increase/Decrease Threshold   |  |
| >>Measurement Change Time                 | M            |       | ENUMERATED (10ms...1min) step 10ms,...  | The time the measurement entity shall fall (in ms), in order to trigger a measurement report.    |
| <b>&gt;Event E</b>                        | C – Event    |       |   |  |

|                               |             |  |   |   |
|-------------------------------|-------------|--|---|---|
|                               | E           |  |   |   |
| >>Measurement Threshold 1     | M           |  | Measurement Threshold   |   |
| >>Measurement Threshold 2     | O           |  | Measurement Threshold   |   |
| >>Measurement Hysteresis Time | O           |  | ENUMERATED<br>(10ms...1min)<br>step<br>10ms,...                           | The hysteresis time in ms   |
| >>Report Periodicity          | O           |  | ENUMERATED<br>(10ms...1min)<br>step<br>10ms,<br>(1min...1hr)<br>step 1min | The frequency with which the Node B shall send measurement reports. |
| >Event F                      | C – Event F |  |   |   |
| >>Measurement Threshold 1     | M           |  | Measurement Threshold   |   |
| >>Measurement Threshold 2     | O           |  | Measurement Threshold   |   |
| >>Measurement Hysteresis Time | O           |  | ENUMERATED<br>(10ms...1min)<br>step<br>10ms,...                           | The hysteresis time in ms   |
| >>Report Periodicity          | O           |  | ENUMERATED<br>(10ms...1min)<br>step<br>10ms,<br>(1min...1hr)<br>step 1min | The frequency with which the Node B shall send measurement reports. |

| Condition  | Explanation   |
|------------|---|
| C-Periodic | Valid if <i>Report Characteristics Type</i> IE indicates "periodic" |
| C-Event A  | Valid if <i>Report Characteristics Type</i> IE indicates "Event A"  |
| C-Event B  | Valid if <i>Report Characteristics Type</i> IE indicates "Event B"  |
| C-Event C  | Valid if <i>Report Characteristics Type</i> IE indicates "Event C"  |
| C-Event D  | Valid if <i>Report Characteristics Type</i> IE indicates "Event D"  |
| C-Event E  | Valid if <i>Report Characteristics Type</i> IE indicates "Event E"  |
| C-Event F  | Valid if <i>Report Characteristics Type</i> IE indicates "Event F"  |

#### 9.2.1.40 Message discriminator

This field is used to discriminate between Dedicated NBAP and Common NBAP messages.

| IE/Group Name         | Presence | Range | IE type and reference             | Semantics description |
|-----------------------|----------|-------|-----------------------------------|-----------------------|
| Message Discriminator |          |       | ENUMERATED<br>(Common, Dedicated) |                       |

#### 9.2.1.41 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       |          | 1     |   |                                 |
| >>Procedure Code    |          |       | 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 TERMINATION 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 TERMINATION FAILURE, RL FAILURE, RL RESTORATION, COMPRESSED MODE PREPARATION, COMPRESSED MODE COMMIT, COMPRESSED MODE CANCELLATION ERROR INDICATION, ...) |                                 |
| >>Dmode             | M        |       | ENUMERATED (FDD, TDD, Common)   | Common = common to FDD and TDD. |
| >Type of Message    | M        |       | ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)  |                                 |

#### 9.2.1.42 Minimum Spreading Factor

This parameter indicates the minimum spreading factor supported at a cell within the Node B.

| IE/Group Name            | Presence | Range | IE type and reference                     | Semantics description |
|--------------------------|----------|-------|---|-----------------------|
| Minimum Spreading Factor |          |       | Enumerated( 4, 16, 32, 64, 128, 256, 512) |                       |

### 9.2.1.43 Node B Communication Context ID

The Node B Communication Context ID is the identifier of the Communication Context in the Node B, it corresponds to the dedicated resources which are necessary for an UE using one or more dedicated channels in a given Node B.

| IE/Group Name                   | Presence | Range | IE type and reference           | Semantics description  |
|---------------------------------|----------|-------|---------------------------------|--|
| Node B Communication Context ID |          |       | INTEGER (0..2 <sup>20</sup> -1) | 2 <sup>20</sup> -1 is reserved value to indicate all the existing and future Node B communication contexts that can be reached by the communication control port (All NBCC). |

### 9.2.1.44 Payload CRC presence Indicator

This parameter indicates whether FP payload 16 bit CRC is used or not.

| IE/Group Name                  | Presence | Range | IE type and reference                       | Semantics description |
|--------------------------------|----------|-------|---|-----------------------|
| Payload CRC Presence Indicator |          |       | ENUMERATED (CRC Included, CRC not included) |                       |

### 9.2.1.45 Puncture limit

The Puncture limit limits the amount of puncturing that can be applied in order to minimise the number of dedicated physical channels.

| IE/Group Name  | Presence | Range | IE type and reference | Semantics description                           |
|----------------|----------|-------|-----------------------|---|
| Puncture limit |          |       | INTEGER (0..15)       | 0: 40%<br>1: 44 %<br>...<br>14: 96%<br>15: 100% |

### 9.2.1.46 Resource Operational State

The resource operational state is used to indicate the current operational state of the associated resource following a Node B failure.

| IE/Group Name              | Presence | Range | IE type and reference          | Semantics description  |
|----------------------------|----------|-------|--------------------------------|--|
| Resource Operational State |          |       | ENUMERATED (Enabled, Disabled) | When a resource is marked as disabled, then its child resources are implicitly disabled. Cell Resource hierarchy can be referred to [6]. |

### 9.2.1.47 Limited Power Increase

The parameter is used for a more efficient use of the inner loop DL power control for non real time data.

If the limited power increase is used, Node B shall not increase the DL power of the RL if it exceeds by more than *Power\_Raise\_Limit* dB the averaged DL power used in the last *DL\_power\_averaging\_window\_size* timeslots of the same RL.

*Power\_Raise\_Limit* and *DL\_power\_averaging\_window\_size* are parameters configured in the Node B.

| IE/Group Name          | Presence | Range | IE type and reference      | Semantics description |
|------------------------|----------|-------|----------------------------|-----------------------|
| Limited Power Increase |          |       | ENUMERATED(Used, Not used) |                       |

#### 9.2.1.48 RL ID

The RL ID is the unique identifier for one RL associated with a UE.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| RL ID         |          |       | INTEGER(0..31)        |                       |

#### 9.2.1.49 SIB Deletion Indicator

Indicates if the SIB shall be deleted or not.

| IE/Group Name          | Presence | Range | IE type and reference            | Semantics description |
|------------------------|----------|-------|----------------------------------|-----------------------|
| SIB Deletion Indicator |          |       | Enumerated(NoDeletion, Deletion) |                       |

#### 9.2.1.50 SIB Originator

Indicates if the Node B shall fill in the SIB information or not.

| IE/Group Name  | Presence | Range | IE type and reference    | Semantics description |
|----------------|----------|-------|--------------------------|-----------------------|
| SIB Originator |          |       | Enumerated(Node B, CRNC) |                       |

#### 9.2.1.51 Shutdown Timer

The shutdown timer shall indicate the length of time available to the CRNC to perform the block of a resource when a Normal priority block is requested.

| IE/Group Name  | Presence | Range | IE type and reference | Semantics description |
|----------------|----------|-------|-----------------------|-----------------------|
| Shutdown Timer |          |       | INTEGER(1..3600)      | Value in seconds      |

#### 9.2.1.52 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included.

| IE/Group Name | Presence | Range | IE type and reference             | Semantics description |
|---------------|----------|-------|-----------------------------------|-----------------------|
| TFCI presence |          |       | ENUMERATED (Present, not present) |                       |

### 9.2.1.53 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

#### Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC\_DSCH). The CTFC\_DSCH value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC\_DSCH value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

#### Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC\_DSCH is spelt out explicitly for each value of TFCI (field2)

]

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

#### Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC\_DSCH). The CTFC\_DSCH value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC\_DSCH value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

#### Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC\_DSCH is spelt out explicitly for each value of TFCI (field2)

| IE/Group Name                         | Presence   | Range                      | IE type and reference     | Semantics description   |
|---------------------------------------|------------|----------------------------|---------------------------|---|
| CHOICE <i>DSCH</i>                    |            |                            |                           |   |
| > <i>No split in TFCI</i>             |            |                            |                           | This choice is made if :<br>a) The TFCS refers to the uplink<br>OR<br>b) The mode is FDD and none of the Node B communication contexts are assigned any DSCH transport channels<br>OR<br>c) The mode is TDD |
| >>TFCS                                |            | 1 to<br><maxnoofTFCs>      |                           | The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.   |
| >>>CTFC                               | M          |                            | INTEGER(0..MaxCTFC-1)     | Integer number calculated according to TS 25.331  |
| >>>CHOICE Gain Factors                | C-PhysChan |                            |                           |   |
| >>>>Signalled Gain Factors            |            |                            |                           |   |
| >>>>>Gain Factor $\beta_c$            | M          |                            | Integer (0..15)           | For UL DPCCCH or control part of PRACH <a href="#">or control part of PCPCH</a> in FDD; mapping in accordance to TS 25.213  |
| >>>>>Gain Factor $\beta_d$            | M          |                            | Integer (0..15)           | For UL DPDCH or data part of PRACH <a href="#">or data part of PCPCH</a> in FDD; mapping in accordance to TS 25.213   |
| >>>>>Reference TFC nr                 | O          |                            | Integer (0..15)           | If this TFC is a reference TFC, this IE indicates the reference number  |
| >>>>>Computed Gain Factors            |            |                            |                           |   |
| >>>>>Reference TFC nr                 | M          |                            | Integer (0..15)           | Indicates the reference TFC to be used to calculate the gain factors for this TFC   |
| > <i>There is a split in the TFCI</i> |            |                            |                           | This choice is made if :<br>a) The TFCS refers to the downlink<br>AND<br>b) The mode is FDD and one of the Node B communication contexts is assigned one or more DSCH transport channels                    |
| >>Transport format combination_DCH    |            | 1 to<br><MaxTFCI_1_Combos> |                           | The first instance of the parameter <i>Transport format combination_DCH</i> corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.  |
| >>>CTFC_DCH                           | M          |                            | Integer(0..MaxCTFC_DCH-1) | Integer number calculated according to TS 25.331. The calculation of CTFC ignores any DSCH transport channels which may be assigned   |
| >>Choice Signalling method            |            |                            |                           |   |
| >>>TFCI range                         |            |                            |                           |   |
| >>>>TFC mapping on DSCH               |            | 1 to<br><MaxNoTFCIGroups>  |                           |   |
| >>>>>Max TFCI(field2) value           | M          |                            | Integer(1..1023)          | This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC_DSCH applies   |
| >>>>>>CTFC_DSCH                       | M          |                            | Integer(0..MaxCTFC_DSCH)  | Integer number calculated according to TS 25.331. The   |



|  |   |                         |                             |  |
|--|---|-------------------------|-----------------------------|--|
|  |   |                         | CH-1)                       | calculation of CTFC ignores any DCH transport channels which may be assigned   |
| >>>Explicit                            |   |                         |                             |  |
| >>>>Transport format combination_DS CH |   | 1 to <MaxTFCI_2_Co mbs> |                             | The first instance of the parameter <i>Transport format combination_DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on. |
| >>>>CTFC_DS CH                         | M |                         | Integer(0..MaxCTFC_DS CH-1) | Integer number calculated according to TS 25.331. The calculation of CTFC ignores any DCH transport channels which may be assigned                         |

| Condition | Explanation   |
|-----------|---|
| PhysChan  | The choice shall be present if the TFCS concerns a UL DPCH or PRACH channel <a href="#">or PCPCH channel</a> in FDD, not when the TFCS is used for other physical channels. |

| Range bound     | Explanation   |
|-----------------|---|
| MaxnoofTFCs     | The maximum number of Transport Format Combinations (1024).   |
| MaxTFCI_1_Combs | Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))  |
| MaxTFCI_2_Combs | Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))  |
| MaxNoTFCIGroups | Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC_DSCH applies  |
| MaxCTFC         | Maximum number of the CTFC value is calculated according to the following:<br>$\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to TS 25.331  |
| MaxCTFC_DCH     | Maximum value of CTFC_DCH is calculated according to the following:<br>$\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to TS25.331 where only the DCH transport channels are taken into account in the calculation.     |
| MaxCTFC_DSCH    | Maximum value of CTFC_DSCH is calculated according to the following:<br>$\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to TS 25.331 where only the DSCH transport channels are taken into account in the calculation.. |

### 9.2.1.54 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..4095)                            |                       |
| >Transport Block Size                           | C – Blocks      |                    | INTEGER (1..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 is 32. |
| MaxRM              | Maximum number that could be set as rate matching attribute for a transport channel.  |
| <i>MaxTTIcount</i> | The amount of different TTI that are possible for that transport format is 4.   |

### 9.2.1.55 ToAWE

TOAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. TOAWE is defined with a positive value relative Latest Time of Arrival (LTOA). A data frame arriving after TOAWE gives a Timing Adjustment Control frame response.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| ToAWE         |          |       | INTEGER (0..2559)     | msec.                 |

### 9.2.1.56 ToAWS

TOAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. TOAWS is defined with a positive value relative Time of Arrival Window Endpoint (TOAWE). A data frame arriving before TOAWS gives a Timing Adjustment Control frame response.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| ToAWS         |          |       | INTEGER (0..1279)     | msec.                 |

### 9.2.1.57 Transaction ID

The transaction ID is used to associate all the messages belonging to the same procedure. Messages belonging to the same procedure shall use the same transaction ID.

The transaction ID is determined by the initiating peer of a procedure. For common procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and signalled over the same Node B control port. For dedicated procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and initiated towards the same Node B/CRNC context.

| IE/Group Name  | Presence | Range | IE type and reference                               | Semantics description |
|----------------|----------|-------|---|-----------------------|
| Transaction ID |          |       | CHOICE<br>INTEGER (0..127) or<br>INTEGER (0..32767) |                       |

### 9.2.1.58 Transport Layer Address

Transport Layer Address defines the transport address of the NodeB. For details on the Transport Address used see [2].

| IE/Group Name           | Presence | Range | IE type and reference     | Semantics description |
|-------------------------|----------|-------|---------------------------|-----------------------|
| Transport Layer Address |          |       | Bit string(1... 160, ...) |                       |

### 9.2.1.59 UARFCN

Designate the central frequency of the channel number.

| Information Element / Group Name | Presence | Range | IE Type and Reference   | Semantics Description   |
|----------------------------------|----------|-------|-------------------------|---|
| UARFCN                           |          |       | INTEGER (0..16383, ...) | corresponds to 0.0Hz.. 3276.6MHz (25.104, section 5.4 and 25.105) |

[Editor's Note: in RRC they have additional attributes such as the "raster" included in the IE ]

### 9.2.1.60 UL FP mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

| IE/Group Name | Presence | Range | IE type and reference      | Semantics description |
|---------------|----------|-------|----------------------------|-----------------------|
| UL FP mode    |          |       | ENUMERATED(Normal, Silent) |                       |

### 9.2.1.61 UL interference level

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

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

### 9.2.1.62 CFN Offset <new section>

Activation time for the compressed mode pattern.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description                                       |
|---------------|----------|-------|-----------------------|---|
| CFN Offset    |          |       | Integer (0..255)      | Number of frames between CFN and the CM pattern activation. |

### 9.2.1.63 TSTD Indicator

Indicates if TSTD shall be active or not.

| IE/Group Name  | Presence | Range | IE type and reference        | Semantics description |
|----------------|----------|-------|------------------------------|-----------------------|
| TSTD Indicator |          |       | ENUMERATED(active, inactive) |                       |

### 9.2.1.64 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

| IE/Group Name           | Presence | Range | IE type and reference           | Semantics description |
|-------------------------|----------|-------|---------------------------------|-----------------------|
| Diversity Control Field |          |       | ENUMERATED(May, Must, Must not) |                       |

### 9.2.1.65 Diversity Indication

The Diversity Indication indicates if the RL has been or has not been combined with another RL.

| IE/Group Name        | Presence | Range | IE type and reference                  | Semantics description |
|----------------------|----------|-------|--|-----------------------|
| Diversity Indication |          |       | ENUMERATED<br>(Combined, not combined) |                       |

### 9.2.1.66 Measurement Filter Coefficient

The Measurement Filter Coefficient determines the amount of filtering to be applied for measurements.

| IE/Group Name                  | Presence | Range | IE type and reference | Semantics description |
|--------------------------------|----------|-------|-----------------------|-----------------------|
| Measurement Filter Coefficient |          |       | INTEGER<br>(1..256)   |                       |

### 9.2.1.67 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E or F.

| Information Element / Group Name     | Presence             | Range | IE Type and Reference | Semantics Description   |
|--------------------------------------|----------------------|-------|-----------------------|---|
| RSSI                                 | <i>C – Threshold</i> |       | INTEGER(0..63)        | According to mapping in 25.215/25.225   |
| Transmitted Carrier Power            | <i>C – Threshold</i> |       | INTEGER(0..100)       | According to mapping in 25.215/25.225   |
| Acknowledged RA tries                | <i>C – Threshold</i> |       | INTEGER(0..240,...)   | The number of L1 acknowledged random access tries per every 20 ms period.   |
| Timeslot ISCP                        | <i>C – Threshold</i> |       | INTEGER(0..81)        | According to mapping in 25.225 (TDD only)   |
| SIR                                  | <i>C – Threshold</i> |       | INTEGER(0..63)        | According to mapping in 25.215/25.225   |
| SIR Error                            | <i>C – Threshold</i> |       | INTEGER(0..125)       | SIR_Error=SIR-SIR_target<br>0: < -31.0 dB<br>1: -31.0dB ≤ SIR_Error < 30.5dB<br>2: -30.5dB ≤ SIR_Error < 30.0dB<br>...<br>62: -0.5dB ≤ SIR_Error < 0dB<br>63: 0dB ≤ SIR_Error < 0.5dB<br>...<br>124: 30.5dB ≤ SIR_Error < 31dB<br>125: ≥ 31dB |
| Transmitted Code Power               | <i>C – Threshold</i> |       | INTEGER(0..127)       | According to mapping in 25.215/25.225   |
| RSCP                                 | <i>C – Threshold</i> |       | INTEGER(0..81)        | According to mapping in 25.225 (TDD only)   |
| >Acknowledged PCPCH Access Preambles | <i>C – Threshold</i> |       | INTEGER(0..15)        | According to mapping in [4] (FDD only)  |
| >Detected PCPCH Access Preambles     | <i>C – Threshold</i> |       | INTEGER(0..240)       | According to mapping in [4] (FDD only)  |

| Condition        | Explanation   |
|------------------|---|
| <i>Threshold</i> | Only one measurement threshold can be present at the same time. |

## 9.2.1.68 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

| Information Element / Group Name                        | Presence             | Range | IE Type and Reference           | Semantics Description   |
|---|----------------------|-------|---------------------------------|---|
| RSSI  | <i>C – Threshold</i> |       | INTEGER(0..62)                  | 0: 0 dB<br>1: 0.5 dB<br>2: 1 dB<br>...<br>62: 31dB                        |
| Transmitted Carrier Power                               | <i>C – Threshold</i> |       | INTEGER(0..100)                 | According to mapping in 25.215/25.225                                     |
| Acknowledged RA tries                                   | <i>C – Threshold</i> |       | INTEGER(0..240,...)             | The number of L1 acknowledged random access tries per every 20 ms period. |
| Timeslot ISCP   | <i>C – Threshold</i> |       | INTEGER(0..80)                  | 0: 0 dB<br>1: 0.5 dB<br>2: 1 dB<br>...<br>80: 40dB                        |
| SIR   | <i>C – Threshold</i> |       | INTEGER(0..62)                  | 0: 0 dB<br>1: 0.5 dB<br>2: 1 dB<br>...<br>62: 31dB                        |
| SIR Error   | <i>C – Threshold</i> |       | INTEGER(0..124)                 | 0: 0 dB<br>1: 0.5 dB<br>2: 1 dB<br>...<br>124: 62 dB                      |
| Transmitted Code Power                                  | <i>C – Threshold</i> |       | INTEGER(0..112,...)             | 0: 0 dB<br>1: 0.5 dB<br>2: 1 dB<br>...<br>112: 56 dB                      |
| RSCP  | <i>C – Threshold</i> |       | INTEGER(0..80)                  | 0: 0 dB<br>1: 0.5 dB<br>2: 1 dB<br>...<br>80: 40dB                        |
| <a href="#">&gt;Acknowledged PCPCH Access Preambles</a> | <i>C – Threshold</i> |       | <a href="#">INTEGER(0..15)</a>  | <a href="#">According to mapping in [4] (FDD only)</a>                    |
| <a href="#">&gt;Detected PCPCH Access Preambles</a>     | <i>C – Threshold</i> |       | <a href="#">INTEGER(0..240)</a> | <a href="#">According to mapping in [4] (FDD only)</a>                    |

| Condition        | Explanation   |
|------------------|---|
| <i>Threshold</i> | Only one measurement threshold can be present at the same time. |

## 9.2.2 FDD specific parameters

### 9.2.2.1 AICH Transmission Timing

| IE/Group Name            | Presence | Range | IE type and reference | Semantics description                  |
|--------------------------|----------|-------|-----------------------|--|
| AICH Transmission Timing |          |       | ENUMERATED (0, 1)     | According to 25.331 chapter 10.2.6.17. |

### 9.2.2.x AP Preamble Signature

| Information Element/Group Name | Presence | Range | IE type and reference | Semantics description |
|--------------------------------|----------|-------|-----------------------|-----------------------|
| AP Preamble Signature          |          |       | INTEGER (0..15)       | Described in [9]      |

### 9.2.2.x AP Sub Channel Number

| Information Element/Group Name | Presence | Range | IE type and reference | Semantics description |
|--------------------------------|----------|-------|-----------------------|-----------------------|
| AP Sub Channel Number          |          |       | INTEGER (0..11)       | Described in [10]     |

### 9.2.2.x CD Sub Channel Numbers

| Information Element/Group Name | Presence | Range | IE type and reference | Semantics description   |
|--------------------------------|----------|-------|-----------------------|---|
| CD Sub Channel Numbers         |          |       | BIT STRING (12)       | Bit 0=Sub Channel Number 0<br>Bit 1=Sub Channel Number 1<br>...<br>Bit 11=Sub Channel Number 11<br>[10] |

### 9.2.2.x Channel Assignment Indication

The Channel Assignment Indication indicates whether CA is active or inactive. When CA is active, CPCH is in Versatile Channel Assignment Method (VCAM) mode and when CA is inactive, CPCH is in UE Channel Selection Method (UCSM) mode. In VCAM mode (CA active), CA message in CD/CA-ICH shall be sent.

| IE/Group Name                 | Presence | Range | IE type and reference               | Semantics description |
|-------------------------------|----------|-------|-------------------------------------|-----------------------|
| Channel Assignment Indication |          |       | ENUMERATED (CA Active, CA Inactive) |                       |

### 9.2.2.2 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip offset is used as offset for the DL DPCH relative to the Primary CPICH timing.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| Chip Offset   |          |       | INTEGER (0..38399)    | Chips                 |

### 9.2.2.3 Compressed mode method

Defines the method for generating the downlink compressed mode gap, as described in 25.212.

| IE/Group Name          | Presence | Range | IE type and reference  | Semantics description          |
|------------------------|----------|-------|--|--------------------------------|
| Compressed Mode Method |          |       | ENUMERATED (None, Puncturing, SF/2, Higher Layer Scheduling) | None = restore the normal mode |

### 9.2.2.x CPCH Allowed Total Rate

| IE/Group Name           | Presence | Range | IE type and reference   | Semantics description      |
|-------------------------|----------|-------|---|----------------------------|
| CPCH Allowed Total Rate |          |       | ENUMERATED (15, 30, 60, 120, 240, 480, 960, 1920, 2880, 3840, 4800, 5760) | Channel Symbol Rate (ksps) |

### 9.2.2.x CPCH Scrambling Code Number

| Information Element/Group Name | Presence | Range | IE type and reference | Semantics description |
|--------------------------------|----------|-------|-----------------------|-----------------------|
| CPCH Scrambling Code Number    |          |       | INTEGER (0..79)       | Described in [9]      |

### 9.2.2.x CPCH UL DPCCH Slot Format

Indicates the slot format used in UL CPCH message control part, accordingly to [7]

| IE/Group Name        | Presence | Range | IE type and reference | Semantics description |
|----------------------|----------|-------|-----------------------|-----------------------|
| UL DPCCH slot format | ■        | ■     | INTEGER (0..2)        |                       |

### 9.2.2.4 D-Field Length

Defines the D Field size of the UL DPCCH slot.

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

### 9.2.2.5 Diversity mode

Define the diversity mode to be applied.



| IE/Group Name  | Presence | Range | IE type and reference   | Semantics description |
|----------------|----------|-------|---|-----------------------|
| Diversity Mode |          |       | ENUMERATED(None, STTD, Closed loop mode 1, Closed loop mode2) |                       |

### 9.2.2.6 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to 25.211.

| IE/Group Name       | Presence | Range | IE type and reference | Semantics description |
|---------------------|----------|-------|-----------------------|-----------------------|
| DL DPCH slot format |          |       | INTEGER (0..16)       |                       |

### 9.2.2.7 DL frame type

This parameter defines if frame structure type 'A' or 'B' shall be used in downlink compressed mode. This is defined in TS 25.212

| IE/Group Name       | Presence | Range | IE type and reference     | Semantics description |
|---------------------|----------|-------|---------------------------|-----------------------|
| Downlink Frame Type |          |       | ENUMERATED (TypeA, TypeB) |                       |

### 9.2.2.8 DL Scrambling Code

DL scrambling code to be used by the RL. One cell may have multiple DL scrambling codes available.

| IE/Group Name      | Presence | Range | IE type and reference | Semantics description   |
|--------------------|----------|-------|-----------------------|---|
| DL Scrambling Code |          |       | INTEGER (0..15)       | 0= Primary scrambling code of the cell<br>1...15= Secondary scrambling code |

### 9.2.2.x Max Number of PCPCHes

| IE/Group Name         | Presence | Range | IE type and reference | Semantics description |
|-----------------------|----------|-------|-----------------------|-----------------------|
| Max Number of PCPCHes |          |       | INTEGER(1..64)        |                       |

### 9.2.2.9 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

| IE/Group Name         | Presence | Range | IE type and reference       | Semantics description |
|-----------------------|----------|-------|-----------------------------|-----------------------|
| Multiplexing Position |          |       | ENUMERATED(Fixed, Flexible) |                       |

### 9.2.2.10 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

| IE/Group Name                    | Presence | Range | IE type and reference | Semantics description                                    |
|----------------------------------|----------|-------|-----------------------|--|
| FDD DL ChannalisationCode Number |          |       | INTEGER(0.. 255)      | The maximum value is equal to the DL spreading factor –1 |

### 9.2.2.11 FDD TPC DL step size

This parameter indicates step size for the DL power adjustment.

| IE/Group Name              | Presence | Range | IE type and reference | Semantics description |
|----------------------------|----------|-------|-----------------------|-----------------------|
| FDD TPC Downlink step size |          |       | ENUMERATED (0.5, 1)   |                       |

### 9.2.2.12 FDD S-CCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

| IE/Group Name      | Presence | Range | IE type and reference | Semantics description   |
|--------------------|----------|-------|-----------------------|---|
| FDD S-CCPCH Offset |          |       | INTEGER(0.. 149)      | 0: 0 chip<br>1: 256 chip<br>2: 512 chip<br>..<br>149: 38144 chip<br>[TS 25.211] |

### 9.2.2.13

-deleted.

### 9.2.2.14 Gap Period

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| Gap Period    |          |       | INTEGER(0.. 255)      | Frames                |

### 9.2.2.15 Gap Position Mode

The gap position can be fixed or adjustable, as defined in TS 25.212.

| IE/Group Name     | Presence | Range | IE type and reference        | Semantics description |
|-------------------|----------|-------|------------------------------|-----------------------|
| Gap Position Mode |          |       | ENUMERATED (Fixed, Flexible) |                       |

### 9.2.2.16 Maximum Number of UL DPDCHs

This parameter is an UE Radio Access Capability parameter which is needed in rate matching algorithm.

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description |
|-------------------------|----------|-------|-----------------------|-----------------------|
| Max Number of UL DPDCHs |          |       | INTEGER<br>(1..6)     |                       |

### 9.2.2.17 Minimum UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is supported by UE. Needed by rate matching algorithm.

| IE/Group Name                     | Presence | Range | IE type and reference            | Semantics description |
|-----------------------------------|----------|-------|----------------------------------|-----------------------|
| Min UL Channelisation Code length |          |       | ENUMERATED(4,8,16,32,64,128,256) |                       |

### 9.2.2.x N<sub>EOT</sub>

The N<sub>EOT</sub> is defined as number of End of Transmission for release of PCPCH transmission.

| <u>IE/Group Name</u>   | <u>Presence</u> | <u>Range</u> | <u>IE type and reference</u>    | <u>Semantics description</u> |
|------------------------|-----------------|--------------|---------------------------------|------------------------------|
| <u>N<sub>EOT</sub></u> |                 |              | <u>INTEGER</u><br><u>(0..8)</u> | <u>TTI</u>                   |

### 9.2.2.x NF<sub>max</sub>

The NF<sub>max</sub> is defined as maximum number of Frame in a PCPCH message data part.

| <u>IE/Group Name</u>    | <u>Presence</u> | <u>Range</u> | <u>IE type and reference</u>     | <u>Semantics description</u> |
|-------------------------|-----------------|--------------|----------------------------------|------------------------------|
| <u>NF<sub>max</sub></u> |                 |              | <u>INTEGER</u><br><u>(1..64)</u> |                              |

### 9.2.2.x N<sub>Start Message</sub>

The N<sub>Start Message</sub> is defined as number of Frames for start message of DL DPDCHes for a CPCH.

| <u>IE/Group Name</u>             | <u>Presence</u> | <u>Range</u> | <u>IE type and reference</u>    | <u>Semantics description</u> |
|----------------------------------|-----------------|--------------|---------------------------------|------------------------------|
| <u>N<sub>Start Message</sub></u> |                 |              | <u>INTEGER</u><br><u>(1..8)</u> |                              |

### 9.2.2.18 Pattern Duration (PD)

| IE/Group Name | Presence | Range | IE type and reference | Semantics description   |
|---------------|----------|-------|-----------------------|---|
| PD            |          |       | INTEGER(0..2047, ...) | Frames<br>If the value is set to '0', the Pattern Duration shall be interpreted as 'infinite' |

### 9.2.2.x PCP Length

Indicates CPCH power control preamble length.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| PCP Length    |          |       | ENUMERATED(0,8)       |                       |

### 9.2.2.19 PICH Mode

The number of paging indicators (PIs) in a PICH frame.

| IE/Group Name | Presence | Range | IE type and reference       | Semantics description  |
|---------------|----------|-------|-----------------------------|------------------------|
| PICH Mode     |          |       | Enumerated(18, 36, 72, 144) | Number of PI per frame |

### 9.2.2.20 Power Control Mode

Power Control Mode specifies the uplink power mode applied during recovery period after each transmission gap in compressed mode. PCM can take 2 values (0 or 1). The different power control modes are described in TS 25.214.

| IE/Group Name      | Presence | Range | IE type and reference | Semantics description |
|--------------------|----------|-------|-----------------------|-----------------------|
| Power Control Mode |          |       | ENUMERATED(0, 1,..)   |                       |

### 9.2.2.21 Power Offset

This IE defines a power offset respect the Downlink transmission power of a DPCH.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description      |
|---------------|----------|-------|-----------------------|----------------------------|
| Power Offset  |          |       | INTEGER(0...24)       | Step 0.25 dB, range 0-6 dB |

### 9.2.2.22 Power Resume Mode

Power Resume Mode selects the uplink power control method to calculate the initial transmit power after the gap. PRM can take two values (0 or 1) and is described in TS 25.214.

| IE/Group Name     | Presence | Range | IE type and reference | Semantics description  |
|-------------------|----------|-------|-----------------------|------------------------|
| Power Resume Mode |          |       | ENUMERATED(0, 1,..)   | Described in TS 25.214 |

### 9.2.2.23 Preamble Signature

| IE/Group Name       | Presence | Range | IE type and reference | Semantics description                                |
|---------------------|----------|-------|-----------------------|--|
| Preamble Signatures |          |       | BIT STRING(16)        | Bit 0=P0<br>Bit 1=P1<br>..<br>Bit 15=P15<br>[25.213] |

### 9.2.2.24 Primary Scrambling code

The Primary scrambling code to be used in the cell.

| IE/Group Name           | Presence | Range | IE type and reference | Semantics description |
|-------------------------|----------|-------|-----------------------|-----------------------|
| Primary Scrambling Code |          |       | Integer (0 .. 511)    |                       |

### 9.2.2.25 Primary CPICH Power

Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell.

| IE/Group Name       | Presence | Range | IE type and reference     | Semantics description          |
|---------------------|----------|-------|---------------------------|--------------------------------|
| Primary CPICH power |          |       | Enumerated (-10, ..., 50) | Unit dBm<br>Granularity 0.1 dB |

### 9.2.2.26 Propagation Delay

Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B.

| IE/Group Name     | Presence | Range | IE type and reference | Semantics description  |
|-------------------|----------|-------|-----------------------|--|
| Propagation Delay |          |       | INTEGER (0..255)      | Chips. Step size is 3 chips.<br>0=0 chips,<br>1=3 chips, ... |

### 9.2.2.27 RACH Slot Format

| IE/Group Name    | Presence | Range | IE type and reference | Semantics description |
|------------------|----------|-------|-----------------------|-----------------------|
| RACH Slot Format |          |       | ENUMERATED(0..3)      | See 25.211.           |

### 9.2.2.28 RACH sub Channel numbers

| IE/Group Name            | Presence | Range | IE type and reference | Semantics description   |
|--------------------------|----------|-------|-----------------------|---|
| RACH Sub Channel Numbers |          |       | BIT STRING (12)       | Bit 0=Sub Channel Number 0<br>Bit 1=Sub Channel Number 1<br>...<br>Bit 11=Sub Channel Number 11 |

### 9.2.2.29 Scrambling code change

This parameter indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

| IE/Group Name          | Presence | Range | IE type and reference          | Semantics description |
|------------------------|----------|-------|--------------------------------|-----------------------|
| Scrambling Code Change |          |       | ENUMERATED (Change, No change) |                       |

### 9.2.2.30 Scrambling Code Word Number

| IE/Group Name               | Presence | Range | IE type and reference | Semantics description |
|-----------------------------|----------|-------|-----------------------|-----------------------|
| Scrambling Code Word Number |          |       | INTEGER (0..255)      |                       |

### 9.2.2.31 Secondary CCPCH Slot Format

| IE/Group Name               | Presence | Range | IE type and reference | Semantics description |
|-----------------------------|----------|-------|-----------------------|-----------------------|
| Secondary CCPCH Slot Format |          |       | INTEGER(0..17)        |                       |

### 9.2.2.32 S-Field Length

The UE uses the S Field of the UL DPCCH slot to send the SS DT Cell ID to the network.

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

### 9.2.2.33 SS DT Cell Identity

The SS DT Cell ID is a temporary ID for SS DT assigned to a cell.

| IE/Group Name       | Presence | Range | IE type and reference  | Semantics description |
|---------------------|----------|-------|------------------------|-----------------------|
| SS DT Cell Identity |          |       | ENUMERATED (a, b.., h) |                       |

### 9.2.2.34 SS DT Cell ID Length

The SS DT Cell ID Length parameter shows the length of the SS DT Cell ID.

| IE/Group Name  | Presence | Range | IE type and reference            | Semantics description |
|----------------|----------|-------|----------------------------------|-----------------------|
| Cell ID Length |          |       | ENUMERATED (Short, Medium, Long) |                       |

### 9.2.2.35 SS DT Support Indicator

The SS DT Support Indicator indicates whether a RL supports SS DT or not.

| IE/Group Name           | Presence | Range | IE type and reference                              | Semantics description |
|-------------------------|----------|-------|--|-----------------------|
| SS DT Support Indicator |          |       | ENUMERATED (SS DT Supported, SS DT not supported). |                       |

### 9.2.2.36 SSdT Indication

The SSdT Indication indicates whether SSdT is in use by the UE or not.

| IE/Group name   | Presence | Range | IE type and reference  | Semantics description |
|-----------------|----------|-------|--|-----------------------|
| SSdT Indication |          |       | ENUMERATED(SSdT Active in the UE, SSdT not Active in the UE) |                       |

### 9.2.2.37 STTD Indicator

Indicates if STTD shall be active or not.

| IE/Group Name  | Presence | Range | IE type and reference        | Semantics description |
|----------------|----------|-------|------------------------------|-----------------------|
| STTD Indicator |          |       | ENUMERATED(active, inactive) |                       |

### 9.2.2.38 T\_Cell

Timing delay used for defining start of SCH, CPICH and the DL scrambling code(s) in a cell relative BFN. Resolution 256 chips.

| IE/Group Name | Presence | Range | IE type and reference        | Semantics description   |
|---------------|----------|-------|------------------------------|---|
| T Cell        |          |       | Enumerated<br>(0 , 1, ...,9) | 0: 0 chip<br>1: 256 chip<br>..<br>9: 2304 chip<br>[TS 25.402] |

### 9.2.2.39 TFCI signalling mode

This parameter indicates if the normal or split mode is used for the TFCI. In the event that the split mode is to be used then the IE indicates whether the split is 'Hard' or 'Logical', and in the event that the split is 'Logical' the IE indicates the number of bits in TFCI (field 2).

| IE/Group Name          | Presence    | Range | IE type and reference      | Semantics description   |
|------------------------|-------------|-------|----------------------------|---|
| TFCI signalling option | M           |       | ENUMERATED (Normal, Split) | 'Normal' : meaning no split in the TFCI field (either 'Logical' or 'Hard')<br>'Split' : meaning there is a split in the TFCI field (either 'Logical' or 'Hard')   |
| Split type             | C-IfSplit   |       | Enumerated (Hard, Logical) | 'Hard' : meaning that TFCI (field 1) and TFCI (field 2) are each 5 bits long and each field is block coded separately.<br><br>'Logical' : meaning that on the physical layer TFCI (field 1) and TFCI (field 2) are concatenated, field 1 taking the most significant bits and field 2 taking the least significant bits). The whole is then encoded with a single block code. |
| Length of TFCI2        | C-SplitType |       | Integer (1..10)            | This IE indicates the length measured in number of bits of TFCI (field2).   |

| Condition | Explanation   |
|-----------|---|
| IfSplit   | This IE is only present if 'TFCI signalling option' = 'split' |
| SplitType | This IE is only present if 'Split type' = 'Logical'           |

#### 9.2.2.40 TGD

Transmission Gap Distance is the duration of transmission between two consecutive transmission gaps within a transmission gap period, expressed in number of frames. In case there is only one transmission gap in the transmission gap period, this parameter shall be set to zero.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| TGD           |          |       | INTEGER(0..3839)      | Slots                 |

#### 9.2.2.41 TGL

Transmission Gap Length is the duration of no transmission, expressed in number of slots.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| TGL           |          |       | INTEGER (3,4,7,10,14) | Slot                  |

#### 9.2.2.42 Transmit Diversity Indicator

The Transmit Diversity Indicator indicates whether transmit diversity shall be active or not.



| IE/Group Name                | Presence | Range | IE type and reference        | Semantics description |
|------------------------------|----------|-------|------------------------------|-----------------------|
| Transmit Diversity Indicator |          |       | ENUMERATED(active, inactive) |                       |

#### 9.2.2.43 UL/DL compressed mode selection:

This parameter specifies whether compressed mode is used in UL only, DL only or both UL and DL

| IE/Group Name                   | Presence | Range | IE type and reference                         | Semantics description |
|---------------------------------|----------|-------|---|-----------------------|
| UL/DL compressed mode selection |          |       | ENUMERATED (UL only, DL only, both UL and DL) |                       |

#### 9.2.2.44 UL delta SIR

The delta in uplink Eb/No that shall be added to the SIR target used during compressed mode frames.

| IE/Group Name    | Presence | Range | IE type and reference  | Semantics description |
|------------------|----------|-------|------------------------|-----------------------|
| Uplink Delta SIR |          |       | Enumerated (-6..+10dB) | Step 0.1 dB.          |

#### 9.2.2.45 UL delta SIR after

The delta in uplink SIR target that shall be added to the SIR target used one frame after the compressed mode frames.

| IE/Group Name          | Presence | Range | IE type and reference  | Semantics description |
|------------------------|----------|-------|------------------------|-----------------------|
| Uplink Delta SIR after |          |       | Enumerated (-6..+10dB) | Step 0.1 dB.          |

#### 9.2.2.46 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, accordingly to 25.211

| IE/Group Name        | Presence | Range | IE type and reference | Semantics description |
|----------------------|----------|-------|-----------------------|-----------------------|
| UL DPCCH slot format |          |       | INTEGER (0..5)        |                       |

#### 9.2.2.47 UL SIR

The UL SIR indicates a received UL SIR.

| IE/Group Name | Presence | Range | IE type and reference     | Semantics description |
|---------------|----------|-------|---------------------------|-----------------------|
| UL SIR        |          |       | ENUMERATED (-8.2 .. 17.3) | Step 0.1 dB           |

### 9.2.2.48 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

| IE/Group Name              | Presence | Range | IE type and reference     | Semantics description |
|----------------------------|----------|-------|---------------------------|-----------------------|
| <b>UL scrambling code</b>  |          |       |                           |                       |
| >UL scrambling code number | M        |       | INTEGER (0.. $2^{24}-1$ ) |                       |
| >UL scrambling code length | M        |       | ENUMERATED(Short, Long)   |                       |

### 9.2.2.49 Preamble threshold

The IE sets the threshold for preamble detection. The threshold is set in dB over the interference level. A Preamble threshold equal to n dB means that the preamble power must be received n dB over the interference in order to be acknowledged.

| Information Element/Group Name | Presence | Range | IE type and reference  | Semantics description                                |
|--------------------------------|----------|-------|------------------------|--|
| Preamble threshold             |          |       | INTEGER (0, 1, ...,72) | 0: 0 dB<br>1: 0.5 dB<br>2: 1 dB<br>..<br>72: 36.0 dB |

### 9.2.2.50 PDSCH code mapping

This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH.

#### Method #1 - Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. The UE maps TFCI(field2) via start' of Group = 1. The PDSCH code used for TFCI( field 2) = 1, is given by the SF and code number = 'PDSCH code start' + 1. This continues, with unit increments in the value of TFC mapping to unit increments in code number up until the point that code number = 'PDSCH code stop'. The process continues in the same way for the next group with the TFCI(field 2) value used by the UE when constructing its mapping table starting at the largest value reached in the previous group plus one. In the event that 'PDSCH code start' = 'PDSCH code stop' then PDSCH codes in the following way. The PDSCH code used for TFCI(field 2) = 0, is given by the SF and code number = 'PDSCH code stop' (as may occur when mapping the PDSCH root code to a TFCI (field 2) value) then this is to be interpreted as defining the mapping between the channelisation code and a single TFCI (ie. TFCI(field 2) should not be incremented twice).

Note that each value of TFCI (field 2) maps to a given code number and when the 'multi-code info' parameter is greater than 1, then each value of TFCI (field 2) actually maps to a set of PDSCH codes. In this case contiguous codes are assigned, starting at the channelisation code denoted by the 'code number' parameter and including all codes with code numbers up to and including 'code number' - 1 + the value given in the parameter 'multi-code info'.

#### Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code. The PDSCH code specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2)'. The PDSCH code specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2)' in the second group.

The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous group plus one.

Method #3 - Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code is spelt out explicitly for each value of TFCI (field2)

| Information Element/Group name | Presence | Range | IE type and reference | Semantics description  |
|--------------------------------|----------|-------|-----------------------|--|
| DL Scrambling Code             | M        |       | INTEGER (0..15)       | Scrambling code on which PDSCH is transmitted.<br>0= Primary scrambling code of the cell<br>1...15 = Secondary scrambling code |

|                                 |   |                        |  |  |
|---------------------------------|---|------------------------|--|--|
| <i>Choice signalling method</i> |   |                        |  |  |
| <i>&gt;code range</i>           |   |                        |  |  |
| >>PDSCH code mapping            |   | 1 to <MaxNoCodeGroups> |  |  |
| >>Spreading factor              | M |                        | Enumerated(4, 8, 16, 32, 64, 128, 256) |  |
| >>multi-code info               | M |                        | Integer(1..16)                         | This parameter indicates the number of PDSCH transmitted to the UE. The PDSCH codes all have the same SF as denoted by the Spreading factor parameter. Contiguous codes are assigned, starting at the channelisation code denoted by the spreading factor and code number parameter and including all codes, with code numbers up to and including 'code number' - 1 + 'multi-code info'. Note that 'code number'-1+'multi-code info' will not be allowed to exceed 'maxCodeNumComp'-1 |
| >>>Code number                  | M |                        | Integer(0..maxCodeNumComp-1)           | PDSCH code start, Numbering as described in TS 25.331  |
| >>>Code number                  | M |                        | Integer(0..maxCodeNumComp-1)           | PDSCH code stop, Numbering as described in TS 25.331   |
| <i>&gt;TFCI range</i>           |   |                        |  |  |
| >>DSCH mapping                  |   |                        |  |  |
| >>>Max TFCI(field2) value       | M |                        | Integer(1..1023)                       | This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies  |
| >>>Spreading factor             | M |                        | Enumerated(4, 8, 16, 32, 64, 128, 256) | SF of PDSCH code   |
| >>>multi-code info              | M |                        | Integer(1..16)                         | Semantics as described for this parameter above  |
| >>>Code number                  | M |                        | Integer(0..maxCodeNumComp-1)           | Code number of PDSCH code. Numbering as described in TS 25.331   |
| <i>&gt;Explicit</i>             |   |                        |  |  |
| >>PDSCH code                    |   | 1 to MaxTFCI_2_Combs   |  | The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.  |
| >>>Spreading factor             | M |                        | Enumerated(4, 8, 16, 32, 64, 128, 256) | SF of PDSCH code   |
| >>>multi-code info              | M |                        | Integer(1..16)                         | Semantics as described for this parameter above  |
| >>>Code number                  | M |                        | Integer(0..maxCodeNumComp-1)           | Code number of PDSCH code. Numbering as described in TS 25.331   |

| Range Bound     | Explanation   |
|-----------------|---|
| MaxCodeNumComp  | Maximum number of codes at the defined spreading factor, within the complete code tree.   |
| MaxTFCI_2_Combs | Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)                                    |
| MaxNoTFCIGroups | Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.                   |
| MaxNoCodeGroups | Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies. |

### 9.2.2.51 Power Adjustment Type

Defines the characteristic of the power adjustment.

| IE/Group Name         | Presence | Range | IE type and reference                 | Semantics description |
|-----------------------|----------|-------|---------------------------------------|-----------------------|
| Power Adjustment Type |          |       | ENUMERATED (None, Common, Individual) |                       |

### 9.2.2.52 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level in one slot period that can be utilised by the Power drifting prevention algorithm. This value does not include the DL inner loop PC adjustment.

| IE/Group Name           | Presence | Range | IE type and reference                                    | Semantics description |
|-------------------------|----------|-------|--|-----------------------|
| Maximum Adjustment Step |          |       | INTEGER (0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1) | dB                    |

### 9.2.2.53 Max Adjustment Period

*Adjustment Period* IE defines the period at the end of which the DL transmitted power shall converge, [with an accuracy of  $\pm 0.25$  dB] to the reference power value assuming zero-sum alternating stream of DL PC commands received in that period of time.

| IE/Group Name         | Presence | Range | IE type and reference              | Semantics description |
|-----------------------|----------|-------|------------------------------------|-----------------------|
| Max Adjustment Period |          |       | INTEGER (10, 20, 30, 40, ..., 500) | Slots                 |

### 9.2.2.54 DL or Global Capacity Credit

The capacity credit indicates to the CRNC the Downlink or global capacity of a node B or of a local cell.

| IE/Group Name                | Presence | Range | IE type and reference | Semantics description |
|------------------------------|----------|-------|-----------------------|-----------------------|
| DL or Global Capacity Credit |          |       | INTEGER (0..65535)    |                       |

### 9.2.2.55 UL Capacity Credit

The capacity credit indicates to the CRNC the Uplink capacity of a node B or of a local cell.

| IE/Group Name      | Presence | Range | IE type and reference | Semantics description |
|--------------------|----------|-------|-----------------------|-----------------------|
| UL Capacity Credit |          |       | INTEGER (0..65535)    |                       |

### 9.2.2.56 Common Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Common Transport Channel Setup

In case of usage of the Common Transport Channel Deletion, the consumption cost given in the consumption law must be credited to the Capacity Credit.

If the modelling of the internal resource capability of the B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

| IE/Group Name                                   | Presence | Range           | IE type and reference | Semantics description  |
|---|----------|-----------------|-----------------------|--|
| <b>Common Channels Capacity Consumption Law</b> |          |                 |                       |  |
| SF allocation law                               |          | <maxNumberOfSF> |                       | For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on. |
| DL cost   | M        |                 | INTEGER (0..65535)    |  |
| UL cost   | M        |                 | INTEGER (0..65535)    |  |

### 9.2.2.57 Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration (case of increase of the SF)

In case of usage of the Radio Link Deletion or of the Radio Link Reconfiguration (case of decrease of the SF) procedure, the consumption cost given in the consumption law shall be credited to the Capacity Credit.

If the modelling of the internal resource capability of the B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

| IE/Group Name                                      | Presence | Range           | IE type and reference | Semantics description  |
|--|----------|-----------------|-----------------------|--|
| <b>Dedicated Channels Capacity Consumption Law</b> |          |                 |                       |  |
| >SF allocation law                                 |          | <maxNumberOfSF> |                       | For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on. |
| >>DL cost  | M        |                 | INTEGER (0..65535)    |  |
| >>UL cost  | M        |                 | INTEGER (0..65535)    |  |

### 9.2.2.58 QE-Selector

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

| IE/Group Name | Presence | Range | IE type and reference                      | Semantics description |
|---------------|----------|-------|--|-----------------------|
| QE-Selector   |          |       | ENUMERATED(selected DCH, non-selected DCH) |                       |

### 9.2.2.59 RL Set ID

The RL Set ID uniquely identifies one RL Set within a Node B Communication Context.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| RL Set ID     |          |       | INTEGER (0..31)       |                       |

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

This chapter is for the time being only **INFORMATIVE**.

In case of misalignment with the tabular format of the messages in chapter 9.1 the ASN.1 needs to be aligned with the tabular format.

The setting of the criticality field and the level on which criticality is set for the IEs and sequences of IEs is still to be decided upon.

### 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 interoperability.
- 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,  
 CompressedModePrepare,  
 CompressedModeReady,  
 CompressedModeCommit,  
 CompressedModeFailure,  
 CompressedModeCancel,  
 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-compressedModeCancellation,  
 id-compressedModeCommit,  
 id-compressedModePreparation,

```

id-dedicatedMeasurementFailure,
id-dedicatedMeasurementInitiation,
id-dedicatedMeasurementReport,
id-dedicatedMeasurementTermination,
id-downlinkPowerControl,
id-errorIndication,
id-physicalSharedChannelReconfiguration,
id-privateMessage,
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      |
    compressedModePreparation                 |
    ...
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
    resourceStatusIndication                   |
    auditRequired                             |
    commonMeasurementReport                   |
    commonMeasurementTermination              |
    commonMeasurementFailure                  |
    synchronisedRadioLinkReconfigurationCommit
}

```

```

synchronisedRadioLinkReconfigurationCancellation
radioLinkFailure
radioLinkRestoration
dedicatedMeasurementReport
dedicatedMeasurementTermination
dedicatedMeasurementFailure
downlinkPowerControlFDD
compressedModeCommit
compressedModeCancellation
unblockResource
errorIndication
privateMessage
...
}

-- *****
--
-- 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
}

-- *** CompressedModePreparation (FDD only) ***
compressedModePreparation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CompressedModePrepare
    SUCCESSFUL OUTCOME      CompressedModeReady
    UNSUCCESSFUL OUTCOME    CompressedModeFailure
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-compressedModePreparation, ddMode fdd }
    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 ::= {
--itaba
    INITIATING MESSAGE    DL-PowerControlRequest
    MESSAGE DISCRIMINATOR dedicated
--itaba
    PROCEDURE ID          { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY          ignore
}

```



```

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

-- *** CompressedModeCancellation (FDD only) ***
compressedModeCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CompressedModeCancel
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-compressedModeCancellation, 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 ***
errorIndication NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      ErrorIndication
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-errorIndication, ddMode common }
    CRITICALITY             ignore
}

-- *** PrivateMessage ***
privateMessage NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      PrivateMessage
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-privateMessage, 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
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCH-CH-ID,
    CSubChannelNumbers,

```

```

CellParameterID,
CFN,
CFNOffset,
Channel-Assignment-Indication,
ChipOffset,
C-ID,
CommonChannelsCapacityConsumptionLaw,
CommonMeasurementType,
CommonMeasurementValue,
CommonPhysicalChannelID,
CommonTransportChannelID,
CommunicationControlPortID,
CompressedModeMethod,
ConfigurationGenerationID,
CriticalityDiagnostics,
CPCH-Allowed-Total-Rate,
CPCHScramblingCodeNumber,
CPCH-UL-DPCH-SlotFormat,
CRNC-CommunicationContextID,
DCH-CombinationInd,
DCH-ID,
DedicatedMeasurementObjectType,
DedicatedChannelsCapacityConsumptionLaw,
DedicatedMeasurementType,
DedicatedMeasurementValue,
D-FieldLength,
DiversityControlField,
DiversityMode,
DL-DPCH-SlotFormat,
DL-FrameType,
DL-or-Global-CapacityCredit,
DL-Power,
DL-ScramblingCode,
DPCH-ID,
DSCH-ID,
-- to do
DSCH-TFS,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FrameHandlingPriority,
FrameOffset,
GapPeriod,
GapPositionMode,
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,
NodeB-CommunicationContextID,
NStartMessage,
PagingIndicatorLength,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PCP-Length,
PD,
PDSCH-CodeMapping,
PDSCHSet-ID,
PDSCH-ID,
PICH-Mode,
PowerAdjustmentType,
PowerControlMode,
PowerOffset,

```

```

PowerResumeMode,
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,
ScaledMaxAdjustmentPeriod,
ScaledMaxAdjustmentStep,
ScramblingCodeChange,
ScramblingCodeWordNumber,
SecondaryCCPCH-SlotFormat,
S-FieldLength,
SFN,
ShutdownTimer,
SIB-DeletionIndicator,
SIB-Originator,
SSDT-Cell-Identity,
SSDT-CellID-Length,
SSDT-Indication,
STTD-Indicator,
SSDT-SupportIndicator,
SyncCase,
T-Cell,
TDD-ChannelisationCode,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TFICI-Coding,
TFICI-Presence,
TFICI-SignallingMode,
TFCS,
TGD,
TGL,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
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-AICH-InformationItem-AuditRsp,  
 id-AICH-InformationItem-ResourceStatusInd,  
 id-AICH-ParametersList-CTCH-ReconfRqstFDD,  
 id-AllRLItem-DM-Rprt,  
 id-AllRLItem-DM-Rsp,  
 id-AllRLItem-Set-DM-Rprt,  
 id-AllRLItem-Set-DM-Rsp,  
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-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-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-SetupRqstFDD,  
 id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
 id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
 id-CommonTransportChannelType-CTCH-SetupRsp,  
 id-CommunicationControlPortID,  
 id-CM-PatternInformationItem-CompressedModePrep,  
 id-CM-PatternInformationList-CompressedModePrep,  
 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-AddListIE-RL-ReconfReady,  
 id-DCH-AddListIE-RL-ReconfRsp,  
 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-InformationResponseItem-RL-SetupRspTDD,  
 id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
 id-DCH-ModifyListIE-RL-ReconfReady,  
 id-DCH-ModifyListIE-RL-ReconfRsp,  
 id-DCH-ModifyList-RL-ReconfPrepFDD,  
 id-DCH-ModifyList-RL-ReconfPrepTDD,

id-DCH-ModifyList-RL-ReconfRqstFDD,  
 id-DCH-ModifyList-RL-ReconfRqstTDD,  
 id-DedicatedMeasurementObjectType,  
 id-DedicatedMeasurementObjectType-DM-Rprt,  
 id-DedicatedMeasurementObjectType-DM-Rqst,  
 id-DedicatedMeasurementObjectType-DM-Rsp,  
 id-DedicatedMeasurementType,  
 id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
 id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
 id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
 id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
 id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
 id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
 id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
 id-DL-DPCH-InformationListIE-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-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-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-ModifyListIE-RL-ReconfReady,  
 id-DSCH-ModifyListIE-RL-ReconfRsp,  
 id-DSCH-ModifyList-RL-ReconfPrepFDD,  
 id-DSCH-ModifyList-RL-ReconfRqstFDD,  
 id-DSCH-SetupListIE-RL-ReconfReady,  
 id-DSCH-SetupListIE-RL-ReconfRsp,  
 id-FACH-InformationItem-AuditRsp,  
 id-FACH-InformationItem-ResourceStatusInd,  
 id-FACHItem-CTCH-SetupRsp,  
 id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
 id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
 id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
 id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
 id-IndicationType-ResourceStatusInd,  
 id-Local-Cell-ID,  
 id-Local-Cell-InformationItem-AuditRsp,  
 id-Local-Cell-InformationItem-ResourceStatusInd,  
 id-Local-Cell-InformationItem2-ResourceStatusInd,  
 id-Local-Cell-InformationList-AuditRsp,  
 id-MaxAdjustmentPeriod,  
 id-MaxAdjustmentStep,  
 id-MaximumTransmissionPower,  
 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-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD,

id-NonCombiningOrIENotPrsentItem-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-ReconfRqstFDD,  
 id-PCH-Parameters-CTCH-ReconfRqstTDD,  
 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-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-ReconfRqstFDD,  
 id-PICH-Parameters-CTCH-ReconfRqstTDD,  
 id-PowerAdjustmentType,  
 id-PRACH-InformationItem-AuditRsp,  
 id-PRACH-InformationItem-ResourceStatusInd,  
 id-PRACHItem-CTCH-SetupRqstFDD,  
 id-PRACHItem-CTCH-SetupRqstTDD,  
 id-PRACH-ParametersList-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-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-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-ReconfigurationFailureList-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-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-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-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-SyncCase,  
 id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
 id-T-Cell,  
 id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
 id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
 id-TransmissionDiversityApplied,  
 id-UARFCNforNt,  
 id-UARFCNforNd,  
 id-UARFCNforNu,  
 id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
 id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
 id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
 id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
 id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
 id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
 id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
 id-UL-DPCH-Information-RL-ReconfPrepFDD,

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id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
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-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,
id-USCH-ModifyListIE-RL-ReconfReady,
id-USCH-ModifyListIE-RL-ReconfRsp,
id-USCH-SetupListIE-RL-ReconfReady,
id-USCH-SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,
maxNrOfCodes,
maxNrOfCMpatterns,
maxNrOfCPCHs,
maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPCPCHs,
maxNrOfPRACHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSs,
maxNrOfUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxLocalCellinNodeB,
maxSF,
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
      PRESENCE mandatory CRITICALITY reject TYPE C-
    }|
  { ID id-ConfigurationGenerationID
    ConfigurationGenerationID PRESENCE mandatory }|
  { ID id-CommonPhysicalChannelType-CTCH-SetupRqstFDD
    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,
  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 ::= {
  ...
}

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 ::= {

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```

    { 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,-- R3-000655, CR24r1
    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,
    scramblingCodeWordNumber ScramblingCodeWordNumber,
    tFCS TFCS,
    preambleSignatures PreambleSignatures,
    allowedSlotFormatInformationList-CTCH-SetupRqstFDD 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..maxSF)) 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,

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cPCH-Allowed-Total-Rate          CPCH-Allowed-Total-Rate,
PCPCHChannelInfomation          PCPCHChannelInfomationList-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              ASubChannelNumber OPTIONAL,
iE-Extensions                   ProtocolExtensionContainer { { ChannelRequestParametersItem-CTCH-
SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

ChannelRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

VCAMMapping-InformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNoofLen)) OF VCAMMapping-
InformationItem-CTCH-SetupRqstFDD

VCAMMapping-InformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
minUL-ChannelisationCodeLength  MinUL-ChannelisationCodeLength,
nFmax                           NFmax,
max-Number-of-PCPCHes          Max-Number-of-PCPCHes,
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,
  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,
  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                                PRESENCE      mandatory  CRITICALITY reject  TYPE C-
  { ID      id-ConfigurationGenerationID          PRESENCE      mandatory  CRITICALITY reject  TYPE
  ConfigurationGenerationID
  { 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
    iE-Extensions
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-SetupResp CRITICALITY ignore TYPE FACH-
ParametersList-CTCH-SetupResp PRESENCE optional },
  { ID id-PCH-Parameters-CTCH-SetupResp CRITICALITY ignore TYPE PCH-Parameters-
CTCH-SetupResp PRESENCE optional },
  { ID id-RACH-Parameters-CTCH-SetupResp CRITICALITY ignore TYPE RACH-Parameters-
CTCH-SetupResp PRESENCE optional },
  { ID id-CPCH-Parameters-CTCH-SetupResp CRITICALITY ignore TYPE CPCH-Parameters-
CTCH-SetupResp PRESENCE optional },
  { ID id-CommonTransportChannelType-CTCH-SetupResp CRITICALITY ignore TYPE
CommonTransportChannelType-CTCH-SetupResp PRESENCE mandatory },
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE
CriticalityDiagnostics PRESENCE optional },
  ...
}

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

CommonTransportChannelType-CTCH-SetupResp ::= SEQUENCE {
  fACH FACH-CTCH-SetupResp OPTIONAL,
  -- One of the channels FACH or PCH or both must be present
  pCH PCH-CTCH-SetupResp OPTIONAL,
  -- One of the channels FACH or PCH or both must be present
  rACH RACH-CTCH-SetupResp,
  iE-Extensions ProtocolExtensionContainer { { CommonTransportChannelType-CTCH-
SetupResp-ExtIEs} } OPTIONAL,
  ...
}

CommonTransportChannelType-CTCH-SetupResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
{
  ...
}

FACH-CTCH-SetupResp ::= ProtocolIE-Container { { FACHIE-CTCH-SetupResp } }

FACHIE-CTCH-SetupResp NBAP-PROTOCOL-IES ::= {
  { ID id-FACHitem-CTCH-SetupResp CRITICALITY ignore TYPE FACHitem-CTCH-SetupResp PRESENCE
mandatory },
  ...
}

FACHitem-CTCH-SetupResp ::= SEQUENCE {
  fACH-ParametersList-CTCH-SetupResp FACH-ParametersList-CTCH-SetupResp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { FACHitem-CTCH-
SetupResp-ExtIEs} } OPTIONAL,
  ...
}

```



```
FACHItem-CTCH-SetupRsp-ExtIEs-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-CTCH-SetupRsp ::= ProtocolIE-Container ( { PCHIE-CTCH-SetupRsp } )
```

```
PCHIE-CTCH-SetupRsp-NBAP-PROTOCOL-IES ::= {
    [ ID-id-PCHItem-CTCH-SetupRsp CRITICALITY ignore TYPE PCHItem-CTCH-SetupRsp PRESENCE mandatory ]
}
```

```
PCHItem-CTCH-SetupRsp ::= SEQUENCE {
    PCH-Parameters-CTCH-SetupRsp PCH-Parameters-CTCH-SetupRsp OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer ( { PCHItem-CTCH-SetupRsp-ExtIEs } ) OPTIONAL,
    ...
}
```

```
PCHItem-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-CTCH-SetupRsp ::= ProtocolIE-Container ( { RACHIE-CTCH-SetupRsp } )
```

```
RACHIE-CTCH-SetupRsp-NBAP-PROTOCOL-IES ::= {
    [ ID-id-RACHItem-CTCH-SetupRsp CRITICALITY ignore TYPE RACHItem-CTCH-SetupRsp PRESENCE mandatory ]
}
```

```
RACHItem-CTCH-SetupRsp ::= SEQUENCE {
    RACH-Parameters-CTCH-SetupRsp RACH-Parameters-CTCH-SetupRsp,
    iE-Extensions                 ProtocolExtensionContainer ( { RACHItem-CTCH-SetupRsp-ExtIEs } ) OPTIONAL,
    ...
}
```

```
RACHItem-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 ::= {
    ...
}

```

```

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

```

```

CPCCH-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 }|
    { ID id-FACH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject TYPE FACH-
ParametersList-CTCH-ReconfRqstFDD PRESENCE optional }|
    { ID id-PCH-Parameters-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PCH-
Parameters-CTCH-ReconfRqstFDD PRESENCE optional }|
    { ID id-PICH-Parameters-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PICH-
Parameters-CTCH-ReconfRqstFDD PRESENCE optional }|
    { ID id-PRACH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACH-
ParametersList-CTCH-ReconfRqstFDD PRESENCE optional }|
}

```

```

{ ID id-AICH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AICH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional }

```

```

...
}

```

```

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,
...
}

```

```

FACH-ParametersList-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 ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
pCH-Power DL-Power OPTIONAL,
toAWS ToAWS OPTIONAL,
toAWE ToAWE OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

PICH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
pICH-Power DL-Power,
iE-Extensions ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

PRACH-ParametersList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHs)) 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..maxSF)) 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 ::= SEQUENCE (SIZE (1..maxNrOfPRACHs)) 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
    cPCH-ParametersList-CTCH-ReconfRqstFDD CPCH-ParametersList-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 {
  cTrCH-ID          CTrCH-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 {
  commonTransportChannelID          CommonTransportChannelID,
  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          PRESENCE    mandatory    }|          TYPE
    MeasurementID
    { ID id-CommonMeasurementObjectType-CM-Rqst  PRESENCE    mandatory    }|          TYPE
    CommonMeasurementObjectType-CM-Rqst
    { ID id-CommonMeasurementType          PRESENCE    mandatory    }|          TYPE
    CommonMeasurementType
    { ID id-MeasurementFilterCoefficient  PRESENCE    optional    }|          TYPE
    MeasurementFilterCoefficient
    { ID id-ReportCharacteristics          PRESENCE    mandatory    }|          TYPE
    ReportCharacteristics
    ...
}

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 PRESENCE CRITICALITY ignore TYPE
MeasurementID mandatory }|
  { ID id-CommonMeasurementObjectType-CM-Rsp PRESENCE CRITICALITY ignore TYPE
CommonMeasurementObjectType-CM-Rsp mandatory }|
  { ID id-SFN PRESENCE optional CRITICALITY ignore TYPE SFN
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      PRESENCE mandatory }|
  { ID id-Cause              PRESENCE mandatory }|
  { ID id-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      PRESENCE mandatory }|
  { ID id-CommonMeasurementObjectType-CM-Rprt CRITICALITY ignore PRESENCE mandatory }|
  { ID id-SFN                PRESENCE optional CRITICALITY ignore 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 {
  commonMeasurementValue  CommonMeasurementValue,
  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 {
  commonMeasurementValue  CommonMeasurementValue,
  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 ::= {
  ...
}

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

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

```

```

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

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

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

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

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

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

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

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

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-Local-Cell-ID      CRITICALITY  reject
    TYPE      Local-Cell-ID      PRESENCE  mandatory  }|
  { ID      id-C-ID              CRITICALITY  reject
    TYPE      C-ID                PRESENCE  mandatory  }|
  { ID      id-ConfigurationGenerationID  CRITICALITY  reject
    TYPE      ConfigurationGenerationID  PRESENCE  mandatory  }|
  { ID      id-T-Cell            CRITICALITY  reject
    TYPE      T-Cell              PRESENCE  mandatory  }|
  { ID      id-UARFCNforNu       CRITICALITY  reject
    TYPE      UARFCN              PRESENCE  mandatory  }|
  { ID      id-UARFCNforNd       CRITICALITY  reject
    TYPE      UARFCN              PRESENCE  mandatory  }|
  { ID      id-MaximumTransmissionPower  CRITICALITY  reject
    TYPE      MaximumTransmissionPower  PRESENCE  mandatory  }|
  { ID      id-PrimaryScramblingCode      CRITICALITY  reject
    TYPE      PrimaryScramblingCode      PRESENCE  mandatory  }|
  { ID      id-PrimarySCH-Information-Cell-SetupRqstFDD  CRITICALITY  reject
    TYPE      PrimarySCH-Information-Cell-SetupRqstFDD  PRESENCE  mandatory  }|
  { ID      id-SecondarySCH-Information-Cell-SetupRqstFDD  CRITICALITY  reject
    TYPE      SecondarySCH-Information-Cell-SetupRqstFDD  PRESENCE  mandatory  }|
  { ID      id-PrimaryCPICH-Information-Cell-SetupRqstFDD  CRITICALITY  reject
    TYPE      PrimaryCPICH-Information-Cell-SetupRqstFDD  PRESENCE  mandatory  }|
  { ID      id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD  CRITICALITY  reject
    TYPE      SecondaryCPICH-InformationList-Cell-SetupRqstFDD  PRESENCE  optional  }|
  { ID      id-PrimaryCCPCH-Information-Cell-SetupRqstFDD  CRITICALITY  reject
    TYPE      PrimaryCCPCH-Information-Cell-SetupRqstFDD  PRESENCE  mandatory  },
}

```

```

}
...
}
CellSetupRequestFDD-Extensions 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 ::= {
    ...
}

-- *****
--
-- CELL SETUP REQUEST TDD
--
-- *****

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

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-Local-Cell-ID
      Local-Cell-ID          PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-C-ID
        C-ID                  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-ConfigurationGenerationID
        ConfigurationGenerationID  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-UARFCNforNt
        UARFCN                  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-CellParameterID
        CellParameterID          PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-MaximumTransmissionPower
        MaximumTransmissionPower  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-TransmissionDiversityApplied
        TransmissionDiversityApplied  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-SyncCase
        SyncCase                  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-SCH-Information-Cell-SetupRqstTDD
        SCH-Information-Cell-SetupRqstTDD  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-PCCPCH-Information-Cell-SetupRqstTDD
        PCCPCH-Information-Cell-SetupRqstTDD  PRESENCE      CRITICALITY      reject      TYPE
      { ID      id-TimeSlotConfigurationList-Cell-SetupRqstTDD
        TimeSlotConfigurationList-Cell-SetupRqstTDD  PRESENCE      CRITICALITY      reject      TYPE
    }
    ...
}

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                      Casel-Cell-SetupRqstTDD,
  case2                      Case2-Cell-SetupRqstTDD,
  ...
}

Casel-Cell-SetupRqstTDD ::= ProtocolIE-Container {{ CaselIE-Cell-SetupRqstTDD }}

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

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

CaselItem-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-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 ::= {
    ...
}

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 id-C-ID PRESENCE mandatory CRITICALITY reject TYPE C-
{ ID id-ConfigurationGenerationID PRESENCE mandatory }|
ConfigurationGenerationID PRESENCE mandatory }|
{ ID id-SCH-Information-Cell-ReconfRqstTDD PRESENCE optional }|
SCH-Information-Cell-ReconfRqstTDD PRESENCE optional }|
{ ID id-PCCPCH-Information-Cell-ReconfRqstTDD PRESENCE optional }|
PCCPCH-Information-Cell-ReconfRqstTDD PRESENCE optional }|
{ ID id-MaximumTransmissionPower PRESENCE optional }|
MaximumTransmissionPower PRESENCE optional }|
{ ID id-TimeSlotConfigurationList-Cell-ReconfRqstTDD PRESENCE mandatory },
TimeSlotConfigurationList-Cell-ReconfRqstTDD 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
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
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..maxAPCHCell)) 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 {
  commonTransportChannelID          CommonTransportChannelID,
  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,
  SIB-DeletionIndicator  SIB-DeletionIndicator          OPTIONAL,
  -- This IE shall be present if the IB-Type is not equal to "MIB"
  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,
    ...
}

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

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

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

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
    iB-SG-POS IB-SG-POS,
    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    },
    ...
}

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,
    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 {
    dCH-ID                                DCH-ID,
    dCH-CombinationIndication              DCH-CombinationInd OPTIONAL,
    limitedPowerIncrease                   LimitedPowerIncrease,
    ul-TransportFormatSet                  TransportFormatSet,
    dl-TransportFormatSet                  TransportFormatSet,
    frameHandlingPriority                   FrameHandlingPriority,
    payloadCRC-PresenceIndicator            PayloadCRC-PresenceIndicator,
    ul-FP-Mode                             UL-FP-Mode,
    qE-Selector                             QE-Selector,
    toAWS                                  ToAWS,
    toAWE                                  ToAWE,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-InformationItem-RL-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationItem-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,
  frameOffset   FrameOffset,
  chipOffset    ChipOffset,
  propagationDelay      PropagationDelay      OPTIONAL,
  diversityControlField DiversityControlField  OPTIONAL,
  -- This IE is present only if the RL is not the first one in the RL Information
  dl-CodeInformationList DL-CodeInformationList-RL-SetupRqstFDD,
  initialDL-transmissionPower      DL-Power,
  maximumDL-power      DL-Power,
  minimumDL-power      DL-Power,
  sSDT-Cell-Identity    SSdT-Cell-Identity    OPTIONAL,
  transmitDiversityIndicator      TransmitDiversityIndicator  OPTIONAL,
  -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
  iE-Extensions      ProtocolExtensionContainer { { RL-InformationItem-RL-
  SetupRqstFDD-ExtIEs} }      OPTIONAL,
  ...
}

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

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

DL-CodeInformationItem-RL-SetupRqstFDD ::= SEQUENCE {
  dl-ScramblingCode      DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber      FDD-DL-ChannelisationCodeNumber,
  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      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
      RL-Information-RL-SetupRqstTDD
      ...
    }
    PRESENCE
    CRITICALITY reject
    mandatory },
    TYPE
}

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
      UL-CCTrCH-InformationItem-RL-SetupRqstTDD
      ...
    }
    PRESENCE
    CRITICALITY notify
    mandatory },
    TYPE
}

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
      DL-CCTrCH-InformationItem-RL-SetupRqstTDD
      ...
    }
    PRESENCE
    CRITICALITY notify
    mandatory },
    TYPE
}

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 {
    dCH-ID                DCH-ID,
    limitedPowerIncrease  LimitedPowerIncrease,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    dCH-CombinationIndication DCH-CombinationInd            OPTIONAL,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority  FrameHandlingPriority            OPTIONAL,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode             UL-FP-Mode,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DCH-InformationItem-RL-
SetupRqstTDD-ExtIEs} }      OPTIONAL,
    ...
}

DCH-InformationItem-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,
    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-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-RL-SetupRspFDD DiversityIndication-RL-SetupRspFDD OPTIONAL,
    -- This IE is present only if the RL is not the first one in the RL Information
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
    nonCombiningOrIENotPrsent
    ...
}

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
    iE-Extensions
    SetupRspFDD-ExtIEs } }      OPTIONAL,
    ...
}

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

NonCombiningOrIENotPrsent-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrIENotPrsentIE-RL-
SetupRspFDD }}

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

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

NonCombiningOrIENotPrsentItem-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
    bindingID
    transportLayerAddress
    iE-Extensions
    InformationResponseItem-RL-SetupRspFDD-ExtIEs } }      DCH-ID,
    BindingID,
    TransportLayerAddress,
    ProtocolExtensionContainer { { DCH-
    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
    bindingID
    transportLayerAddress
    DSCH-ID,
    BindingID,
    TransportLayerAddress,
}

```

```

        iE-Extensions
InformationResponseItem-RL-SetupRspFDD-ExtIEs } } ProtocolExtensionContainer { { DSCH-
OPTIONAL,
...
}

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

-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

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

RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore TYPE
CRNC-CommunicationContextID PRESENCE mandatory } |
    { ID id-NodeB-CommunicationContextID        CRITICALITY ignore TYPE
NodeB-CommunicationContextID PRESENCE mandatory } |
    { ID id-CommunicationControlPortID         CRITICALITY ignore TYPE
CommunicationControlPortID PRESENCE mandatory } |
    { ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE
RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics             CRITICALITY ignore TYPE
CriticalityDiagnostics PRESENCE optional },
...
}

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

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID          RL-ID,
    uL-InterferenceList-RL-SetupRspTDD UL-InterferenceList-RL-SetupRspTDD,
    dCH-InformationResponseList DCH-InformationResponseList-RL-SetupRspTDD,
    dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspTDD,
OPTIONAL,
    uSCH-InformationResponseList USCH-InformationResponseList-RL-SetupRspTDD
OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { RL-
InformationResponseList-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
...
}

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

UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) 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
    optional }|
    { ID      id-CommunicationControlPortID          CRITICALITY  ignore
      TYPE    CommunicationControlPortID           PRESENCE
    mandatory }|
    { ID      id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD CRITICALITY  ignore
      TYPE    Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD PRESENCE
    mandatory }|
    { ID      id-Successful-RL-InformationRespList-RL-SetupFailureFDD CRITICALITY  ignore
      TYPE    Successful-RL-InformationRespList-RL-SetupFailureFDD PRESENCE
    optional }|
    { ID      id-CriticalityDiagnostics              CRITICALITY  ignore
      TYPE    CriticalityDiagnostics                PRESENCE
    optional },
    ...
}

RadioLinkSetupFailureFDD-Extensions 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
OPTIONAL,
    -- This IE is present if at least one of the RL is not the first one in the RL information
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,
    nonCombiningOrIENotPrsent              NonCombiningOrIENotPrsent-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 ::= {
    ...
}

NonCombiningOrIENotPrsent-RL-SetupFailureFDD ::= ProtocolIE-Container {{
    NonCombiningOrIENotPrsentIE-RL-SetupFailureFDD }}

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

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

NonCombiningOrIENotPrsentItem-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 ::= {
...
}

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

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

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
    RL-InformationItem-RL-AdditionRqstFDD
    PRESENCE  mandatory},
  ...
}

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,
  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
    TYPE    NodeB-CommunicationContextID
    PRESENCE mandatory }|
  { ID      id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD
    TYPE    UL-CCTrCH-InformationList-RL-AdditionRqstTDD
    PRESENCE optional }|
  { ID      id-UL-DPCH-InformationList-RL-AdditionRqstTDD
    TYPE    UL-DPCH-InformationList-RL-AdditionRqstTDD
    PRESENCE optional }|
  { ID      id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD
    TYPE    DL-CCTrCH-InformationList-RL-AdditionRqstTDD
    PRESENCE optional }|
  { ID      id-DL-DPCH-InformationList-RL-AdditionRqstTDD
    TYPE    DL-DPCH-InformationList-RL-AdditionRqstTDD
    PRESENCE optional }|
  { ID      id-RL-Information-RL-AdditionRqstTDD
    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,
    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..maxNrOfRLs)) 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,
    dSCH-InfomationResponseList         DSCH-InformationResponseList-RL-AdditionRspTDD
    OPTIONAL,
    uSCH-InfomationResponseList         USCH-InformationResponseList-RL-AdditionRspTDD
    OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { RL-
InformationResponse-RL-AdditionRspTDD-ExtIEs} }  OPTIONAL,
    ...
}

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

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

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                             TimeSlot,
    uL-InterferenceLevel                 UL-InterferenceLevel,
    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-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD  CRITICALITY
  ignore    TYPE      Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD  PRESENCE
  mandatory }|
  { ID      id-Successful-RL-InformationRespList-RL-AdditionFailureFDD    CRITICALITY
  ignore    TYPE      Successful-RL-InformationRespList-RL-AdditionFailureFDD    PRESENCE
  mandatory }|
  { ID      id-CriticalityDiagnostics                        CRITICALITY
  ignore    TYPE      CriticalityDiagnostics                PRESENCE
  optional  },
  ...
}

RadioLinkAdditionFailureFDD-Extensions 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,
  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-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD    CRITICALITY
ignore    TYPE    Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD  PRESENCE
mandatory }|
    { ID    id-CriticalityDiagnostics                                CRITICALITY
ignore    TYPE    CriticalityDiagnostics                                  PRESENCE
optional  },
    ...
}

```

```

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

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-RL-InformationList-RL-ReconfPrepFDD CRITICALITY   reject          TYPE
RL-InformationList-RL-ReconfPrepFDD  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,
    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 {
    dCH-ID                                DCH-ID,
    ul-TransportFormatSet                  TransportFormatSet                OPTIONAL,
    dl-TransportFormatSet                  TransportFormatSet                OPTIONAL,
    frameHandlingPriority                  FrameHandlingPriority              OPTIONAL,
    ul-FP-Mode                             UL-FP-Mode                        OPTIONAL,
    toAWS                                  ToAWS                              OPTIONAL,
    toAWE                                  ToAWE                              OPTIONAL,
    iE-Extensions                        ProtocolExtensionContainer { { DCH-ModifyItem-
RL-ReconfPrepFDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                                DCH-ID,
    dCH-CombinationIndication              DCH-CombinationInd                OPTIONAL,
    limitedPowerIncrease                    LimitedPowerIncrease,
    ul-TransportFormatSet                  TransportFormatSet,
    dl-TransportFormatSet                  TransportFormatSet,
    frameHandlingPriority                  FrameHandlingPriority,
    payloadCRC-PresenceIndicator           PayloadCRC-PresenceIndicator,
    ul-FP-Mode                             UL-FP-Mode,
    qE-Selector                            QE-Selector,
    toAWS                                  ToAWS,
    toAWE                                  ToAWE,
    iE-Extensions                        ProtocolExtensionContainer { { DCH-AddItem-RL-
ReconfPrepFDD-ExtIEs} }    OPTIONAL,
    ...
}

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

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-
ReconfPrepFDD

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

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

RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
  rL-ID RL-ID,
  dl-CodeInformationList DL-CodeInformationList-RL-ReconfPrepFDD
  OPTIONAL,

```

```

maxDL-Power                DL-Power
OPTIONAL,
minDL-Power                DL-Power
OPTIONAL,
sSDT-Indication            SSDT-Indication
OPTIONAL,
sSDT-Cell-Identity        SSDT-Cell-Identity
OPTIONAL,
-- The IE may be present if the SSDT Indication is set to SSDT Active in the UE
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,
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          PRESENCE    CRITICALITY    reject    TYPE
NodeB-CommunicationContextID                  PRESENCE    mandatory    }|
{ ID id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD  PRESENCE    CRITICALITY    reject    TYPE
UL-CCTrCH-InformationList-RL-ReconfPrepTDD    PRESENCE    optional    }|
{ ID id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD  PRESENCE    CRITICALITY    reject    TYPE
DL-CCTrCH-InformationList-RL-ReconfPrepTDD    PRESENCE    optional    }|
{ ID id-DCH-ModifyList-RL-ReconfPrepTDD            PRESENCE    CRITICALITY    reject    TYPE
DCH-ModifyList-RL-ReconfPrepTDD              PRESENCE    optional    }|
{ ID id-DCH-AddList-RL-ReconfPrepTDD              PRESENCE    CRITICALITY    reject    TYPE
DCH-AddList-RL-ReconfPrepTDD                PRESENCE    optional    }|
{ ID id-DCH-DeleteList-RL-ReconfPrepTDD          PRESENCE    CRITICALITY    reject    TYPE
DCH-DeleteList-RL-ReconfPrepTDD            PRESENCE    optional    }|
{ ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD  PRESENCE    CRITICALITY    reject    TYPE
DSCH-Information-ModifyList-RL-ReconfPrepTDD  PRESENCE    optional    }|
{ ID id-DSCH-information-AddList-RL-ReconfPrepTDD    PRESENCE    CRITICALITY    reject    TYPE
DSCH-Information-AddList-RL-ReconfPrepTDD    PRESENCE    optional    }|
{ ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD  PRESENCE    CRITICALITY    reject    TYPE
DSCH-Information-DeleteList-RL-ReconfPrepTDD  PRESENCE    optional    }|
{ ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD  PRESENCE    CRITICALITY    reject    TYPE
USCH-Information-ModifyList-RL-ReconfPrepTDD  PRESENCE    optional    }|
{ ID id-USCH-information-AddList-RL-ReconfPrepTDD    PRESENCE    CRITICALITY    reject    TYPE
USCH-Information-AddList-RL-ReconfPrepTDD    PRESENCE    optional    }|
{ ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD  PRESENCE    CRITICALITY    reject    TYPE
USCH-Information-DeleteList-RL-ReconfPrepTDD  PRESENCE    optional    }|
{ ID id-RL-Information-RL-ReconfPrepTDD          PRESENCE    CRITICALITY    reject    TYPE
RL-Information-RL-ReconfPrepTDD            PRESENCE    optional    },
...
}

```

```

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

UL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-
InformationItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS                                OPTIONAL,
    tFCI-Coding               TFCI-Coding
    OPTIONAL,
    punctureLimit            PunctureLimit
    OPTIONAL,
    ul-DPCH-InformationList   UL-DPCH-InformationList-RL-ReconfPrepTDD
    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { UL-CCTrCH-
InformationItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

UL-DPCH-InformationList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ UL-DPCH-InformationListIEs-RL-
ReconfPrepTDD }}

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

UL-DPCH-InformationListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-
InformationItem-RL-ReconfPrepTDD

UL-DPCH-InformationItem-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-
InformationItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

DL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-
InformationItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS                                OPTIONAL,
    tFCI-Coding               TFCI-Coding
    OPTIONAL,
    punctureLimit            PunctureLimit
    OPTIONAL,
    dl-DPCH-InformationList   DL-DPCH-InformationList-RL-ReconfPrepTDD
    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-
InformationItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

```

DL-DPCH-InformationList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationListIEs-RL-ReconfPrepTDD }}

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

DL-DPCH-InformationListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-ReconfPrepTDD

DL-DPCH-InformationItem-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 { { DL-DPCH-InformationItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,  
 ...  
}

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

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

DCH-ModifyItem-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,  
 ul-FP-Mode UL-FP-Mode OPTIONAL,  
 toAWS ToAWS OPTIONAL,  
 toAWE ToAWE OPTIONAL,  
 iE-Extensions ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,  
 ...  
}

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

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

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {  
 dCH-ID DCH-ID,  
 limitedPowerIncrease LimitedPowerIncrease,  
 ul-CCTrCH-ID CCTrCH-ID,  
 dl-CCTrCH-ID CCTrCH-ID,  
 dCH-CombinationIndication DCH-CombinationInd OPTIONAL,  
 ul-TransportFormatSet TransportFormatSet,  
 dl-TransportFormatSet TransportFormatSet,  
 frameHandlingPriority FrameHandlingPriority,  
 payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,  
 ul-FP-Mode UL-FP-Mode,  
 toAWS ToAWS,  
 toAWE ToAWE,  
 iE-Extensions ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,  
 ...  
}

DCH-AddItem-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,
    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-AddList-RL-ReconfReady DCH-AddList-RL-ReconfReady
  OPTIONAL,
  dCH-ModifyList-RL-ReconfReady DCH-ModifyList-RL-ReconfReady
  OPTIONAL,
  dSCH-SetupList-RL-ReconfReady DSCH-SetupList-RL-ReconfReady
  OPTIONAL,
  dSCH-ModifyList-RL-ReconfReady DSCH-ModifyList-RL-ReconfReady
  OPTIONAL,
  uSCH-SetupList-RL-ReconfReady USCH-SetupList-RL-ReconfReady
  OPTIONAL,
  uSCH-ModifyList-RL-ReconfReady USCH-ModifyList-RL-ReconfReady
  OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RL-
InformationResponseItem-RL-ReconfReady-ExtIEs } }
  OPTIONAL,
  ...
}

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

DCH-AddList-RL-ReconfReady ::= ProtocolIE-Container {{ DCH-AddListIEs-RL-ReconfReady }}

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

DCH-AddListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfReady

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

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

DCH-ModifyList-RL-ReconfReady ::= ProtocolIE-Container {{ DCH-ModifyListIEs-RL-ReconfReady }}

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

DCH-ModifyListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-
ReconfReady

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

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

DSCH-SetupList-RL-ReconfReady ::= ProtocolIE-Container {{ DSCH-SetupListIEs-RL-ReconfReady }}

```

```

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

DSCH-SetupListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-SetupItem-RL-
ReconfReady

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

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

DSCH-ModifyList-RL-ReconfReady ::= ProtocolIE-Container {{ DSCH-ModifyListIEs-RL-ReconfReady }}

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

DSCH-ModifyListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-ModifyItem-RL-
ReconfReady

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

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

USCH-SetupList-RL-ReconfReady ::= ProtocolIE-Container {{ USCH-SetupListIEs-RL-ReconfReady }}

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

USCH-SetupListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-SetupItem-RL-
ReconfReady

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

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

USCH-ModifyList-RL-ReconfReady ::= ProtocolIE-Container {{ USCH-ModifyListIEs-RL-ReconfReady }}

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

```

```

USCH-ModifyListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-ModifyItem-RL-
ReconfReady

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

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

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

RadioLinkReconfigurationFailure-Extensions 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 PRESENCE mandatory },
  ...
}

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 },
  ...
}

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

```

```

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

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

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    dl-TFCS                                TFCS                OPTIONAL,
    tFCI-SignallingMode                    tFCI-SignallingMode
OPTIONAL,
    pDSCH-CodeMapping                      PDSCH-CodeMapping
OPTIONAL,
    pDSCH-RL-ID                            RL-ID
OPTIONAL,
    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 {
    dCH-ID                                  DCH-ID,
    ul-TransportFormatSet                  TransportFormatSet    OPTIONAL,
    dl-TransportFormatSet                  TransportFormatSet    OPTIONAL,
    frameHandlingPriority                   FrameHandlingPriority  OPTIONAL,
    ul-FP-Mode                             UL-FP-Mode           OPTIONAL,
    toAWS                                   ToAWS                 OPTIONAL,
    toAWE                                   ToAWE                 OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer { { DCH-ModifyItem-
RL-ReconfRqstFDD-ExtIEs} }                OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                                  DCH-ID,
    dCH-CombinationInd                     DCH-CombinationInd   OPTIONAL,
    limitedPowerIncrease                   LimitedPowerIncrease,
    ul-TransportFormatSet                  TransportFormatSet,
    dl-TransportFormatSet                  TransportFormatSet,
    frameHandlingPriority                   FrameHandlingPriority,
    payloadCRC-PresenceIndicator           PayloadCRC-PresenceIndicator,
    ul-FP-Mode                             UL-FP-Mode,
    qE-Selector                            QE-Selector,
    toAWS                                   ToAWS,
    toAWE                                   ToAWE,
    iE-Extensions                          ProtocolExtensionContainer { { DCH-Add-RL-
ReconfRqstFDDItem-ExtIEs} }                OPTIONAL,
    ...
}

DCH-Add-RL-ReconfRqstFDDItem-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
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,
  iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-
RL-ReconfRqstFDD-ExtIEs} }          OPTIONAL,
  ...
}

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-InformationList-RL-ReconfRqstTDD  CRITICALITY    notify
    TYPE    UL-CCTrCH-InformationList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD  CRITICALITY    notify
    TYPE    DL-CCTrCH-InformationList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-DCH-ModifyList-RL-ReconfRqstTDD            CRITICALITY    reject
    TYPE    DCH-ModifyList-RL-ReconfRqstTDD            PRESENCE          optional } |
  { ID      id-DCH-AddList-RL-ReconfRqstTDD              CRITICALITY    reject
    TYPE    DCH-AddList-RL-ReconfRqstTDD              PRESENCE          optional } |
  { ID      id-DCH-DeleteList-RL-ReconfRqstTDD          CRITICALITY    reject
    TYPE    DCH-DeleteList-RL-ReconfRqstTDD          PRESENCE          optional } |
  { ID      id-DSCH-Information-ModifyList-RL-ReconfRqstTDD  CRITICALITY    reject
    TYPE    DSCH-Information-ModifyList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-DSCH-Information-AddList-RL-ReconfRqstTDD  CRITICALITY    reject
    TYPE    DSCH-Information-AddList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-DSCH-Information-DeleteList-RL-ReconfRqstTDD  CRITICALITY    reject
    TYPE    DSCH-Information-DeleteList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-USCH-Information-ModifyList-RL-ReconfRqstTDD  CRITICALITY    reject
    TYPE    USCH-Information-ModifyList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-USCH-Information-AddList-RL-ReconfRqstTDD  CRITICALITY    reject
    TYPE    USCH-Information-AddList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-USCH-Information-DeleteList-RL-ReconfRqstTDD  CRITICALITY    reject
    TYPE    USCH-Information-DeleteList-RL-ReconfRqstTDD  PRESENCE          optional } |
  { ID      id-RL-Information-RL-ReconfRqstTDD          CRITICALITY    ignore          TYPE
    RL-Information-RL-ReconfRqstTDD                    PRESENCE          optional },
  ...
}

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

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

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

```

```

UL-CCTrCH-InformationItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                    TFCS                OPTIONAL,
    punctureLimit           PunctureLimit    OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { UL-CCTrCH-
InformationItem-RL-ReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

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

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

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

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

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

DCH-ModifyItem-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,
    ul-FP-Mode                UL-FP-Mode            OPTIONAL,
    toAWS                     ToAWS                OPTIONAL,
    toAWE                     ToAWE                OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { DCH-ModifyItem-
RL-ReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    limitedPowerIncrease      LimitedPowerIncrease,
    ul-CCTrCH-ID              CCTrCH-ID,
    dl-CCTrCH-ID              CCTrCH-ID,
    dCH-CombinaionInd         DCH-CombinaionInd    OPTIONAL,
    ul-TransportFormatSet     TransportFormatSet,
    dl-TransportFormatSet     TransportFormatSet,
    frameHandlingPriority      FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                UL-FP-Mode,
    toAWS                     ToAWS,
    toAWE                     ToAWE,
    iE-Extensions             ProtocolExtensionContainer { { DCH-AddItem-RL-
ReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    ...
}

```

```

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

DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-
ReconfRqstTDD

DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    iE-Extensions         ProtocolExtensionContainer { { DCH-DeleteItem-
RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

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

USCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    transportFormatSet     TransportFormatSet        OPTIONAL,

```

```

        iE-Extensions
ModifyItem-RL-ReconfRqstTDD-ExtIEs} }      ProtocolExtensionContainer { { USCH-Information-
        ...                                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,
    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,
    iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-
RL-ReconfRqstTDD-ExtIEs} }      OPTIONAL,
    ...
}
RL-InformationItem-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-AddList-RL-ReconfRsp DCH-AddList-RL-ReconfRsp OPTIONAL,
  dCH-ModifyList-RL-ReconfRsp DCH-ModifyList-RL-ReconfRsp OPTIONAL,
  dSCH-SetupList-RL-ReconfRsp DSCH-SetupList-RL-ReconfRsp OPTIONAL,
  dSCH-ModifyList-RL-ReconfRsp DSCH-ModifyList-RL-ReconfRsp OPTIONAL,
  uSCH-SetupList-RL-ReconfRsp USCH-SetupList-RL-ReconfRsp OPTIONAL,
  uSCH-ModifyList-RL-ReconfRsp USCH-ModifyList-RL-ReconfRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RL-
InformationResponseItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
  ...
}

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

DCH-AddList-RL-ReconfRsp ::= ProtocolIE-Container {{ DCH-AddListIEs-RL-ReconfRsp }}

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

DCH-AddListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRsp

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

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

DCH-ModifyList-RL-ReconfRsp ::= ProtocolIE-Container {{ DCH-ModifyIEs-RL-ReconfRsp }}

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

DCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRsp

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

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

DSCH-SetupList-RL-ReconfRsp ::= ProtocolIE-Container {{ DSCH-SetupListIEs-RL-ReconfRsp }}

DSCH-SetupListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-SetupListIE-RL-ReconfRsp CRITICALITY ignore TYPE DSCH-SetupListIE-RL-ReconfRsp
  PRESENCE mandatory },

```

```

}
...
DSCH-SetupListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-SetupItem-RL-ReconfRsp

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

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

DSCH-ModifyList-RL-ReconfRsp ::= ProtocolIE-Container {{ DSCH-ModifyListIEs-RL-ReconfRsp }}

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

DSCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfRsp

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

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

USCH-SetupList-RL-ReconfRsp ::= ProtocolIE-Container {{ USCH-SetupListIEs-RL-ReconfRsp }}

USCH-SetupListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-SetupListIE-RL-ReconfRsp  CRITICALITY ignore TYPE USCH-SetupListIE-RL-ReconfRsp
    PRESENCE mandatory },
    ...
}

USCH-SetupListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-SetupItem-RL-ReconfRsp

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

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

USCH-ModifyList-RL-ReconfRsp ::= ProtocolIE-Container {{ USCH-ModifyListIEs-RL-ReconfRsp }}

USCH-ModifyListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-ModifyListIE-RL-ReconfRsp  CRITICALITY ignore TYPE USCH-ModifyListIE-RL-ReconfRsp
    PRESENCE mandatory },
    ...
}

USCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-ModifyItem-RL-ReconfRsp

USCH-ModifyItem-RL-ReconfRsp ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,

```

```

        iE-Extensions
ReconfRsp-ExtIEs} }      OPTIONAL,
        ...
    }

USCH-ModifyItem-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      ScaledMaxAdjustmentStep
    PRESENCE conditional } |
    -- This IE is present only 'Adjustment Type' equals to 'Common' or 'Individual'
    { ID id-MaxAdjustmentPeriod               CRITICALITY ignore          TYPE      ScaledMaxAdjustmentPeriod
    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
MeasurementID PRESENCE CRITICALITY reject TYPE
{ ID id-DedicatedMeasurementObjectType PRESENCE CRITICALITY reject TYPE
DedicatedMeasurementObjectType PRESENCE mandatory } |
{ ID id-DedicatedMeasurementObjectType-DM-Rqst CRITICALITY ignore TYPE
DedicatedMeasurementObjectType-DM-Rqst PRESENCE mandatory } |
{ ID id-DedicatedMeasurementType PRESENCE CRITICALITY reject TYPE
DedicatedMeasurementType PRESENCE mandatory } |
{ ID id-MeasurementFilterCoefficient PRESENCE CRITICALITY reject TYPE
MeasurementFilterCoefficient PRESENCE optional } |
{ ID id-ReportCharacteristics PRESENCE CRITICALITY reject TYPE
ReportCharacteristics PRESENCE mandatory } ,
...
}

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

DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
rL RL-DM-Rqst,
rLS RL-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 ::= {
    ...
}

-- *****
--
-- 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          PRESENCE    CRITICALITY  ignore    TYPE
    CRNC-CommunicationContextID                  PRESENCE    CRITICALITY  mandatory } |
    { ID  id-MeasurementID                       PRESENCE    CRITICALITY  ignore    TYPE
    MeasurementID                               PRESENCE    CRITICALITY  mandatory } |
    { ID  id-DedicatedMeasurementObjectType-DM-Rsp PRESENCE    CRITICALITY  ignore    TYPE
    DedicatedMeasurementObjectType-DM-Rsp       PRESENCE    CRITICALITY  mandatory } |
    { ID  id-CFN                                 PRESENCE    CRITICALITY  ignore    TYPE    CFN
    CFN                                          PRESENCE    optional   } |
    { ID  id-CriticalityDiagnostics              PRESENCE    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     AllRL-DM-Rsp,
    all-RLS    AllRL-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 ::= {
    ...
}

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

```

```

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

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

AllRLItem-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 ::= {
  ...
}

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

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

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

AllRLItem-Set-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-Rpirt ::= CHOICE {
    rL                               RL-DM-Rpirt,
    rLS                              RL-Set-DM-Rpirt,
    all-RL                           RL-DM-Rpirt,
    all-RLS                          RL-Set-DM-Rpirt,
    ...
}
RL-DM-Rpirt ::= ProtocolIE-Container {{ RLIE-DM-Rpirt }}

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

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

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

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

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

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

AllRLItem-DM-Rpirt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

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

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

RL-SetItem-DM-Rpirt ::= SEQUENCE {
    rL-Set-InformationList-DM-Rpirt    RL-Set-InformationList-DM-Rpirt,

```

```

    iE-Extensions          ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } }
    OPTIONAL,
    ...
}

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

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

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

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

AllRLItem-Set-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,
    dedicatedMeasurementValue                DedicatedMeasurementValue,
    iE-Extensions                          ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-
ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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
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 PREPARE FDD
--
-- *****

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

CompressedModePrepare-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID      CRITICALITY      reject      TYPE      NodeB-
CommunicationContextID PRESENCE      mandatory } |
    { ID      id-CM-PatternInformationList-CompressedModePrep      CRITICALITY reject      TYPE      CM-
PatternInformationList-CompressedModePrep      PRESENCE      mandatory },
    ...
}

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

CM-PatternInformationList-CompressedModePrep ::= SEQUENCE (SIZE (1.. maxNrOfCMPatterns)) OF
ProtocolIE-Container { { CM-PatternInformationItemIE-CompressedModePrep } }

CM-PatternInformationItemIE-CompressedModePrep NBAP-PROTOCOL-IES ::= {
    { ID      id-CM-PatternInformationItem-CompressedModePrep      CRITICALITY      reject
TYPE      CM-PatternInformationItem-CompressedModePrep      PRESENCE      mandatory},
    ...
}

CM-PatternInformationItem-CompressedModePrep ::= SEQUENCE {
    cFNOffset      CFNOffset,
    tGP1           GapPeriod,
    tGP2           GapPeriod      OPTIONAL,
    tGL            TGL,
    tGD            TGD,
    pD             PD,
    ul-DL-CompressedModeSelection      UL-DL-CompressedModeSelection,
    compressedModeMethod      CompressedModeMethod,
    gapPositionMode      GapPositionMode,
    sN                  TimeSlot      OPTIONAL,
    -- This IE is present if Gap position mode = 'flexible position'--
    dl-FrameType      DL-FrameType,
    scramblingCodeChange      ScramblingCodeChange      OPTIONAL,
    -- This IE is present if Compressed mode method = 'SF/2' --
    powerControlMode      PowerControlMode,
    powerResumeMode      PowerResumeMode,
    ul-DeltaSIR           UL-DeltaSIR,
    ul-DeltaSIR-after     UL-DeltaSIR-after,
    iE-Extensions        ProtocolExtensionContainer { { CM-
PatternInformationItem-CompressedModePrep-ExtIEs } }      OPTIONAL,
    ...
}

CM-PatternInformationItem-CompressedModePrep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMPRESSED MODE READY FDD
--
-- *****

```

```

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

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

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

-- *****
--
-- COMPRESSED MODE COMMIT FDD
--
-- *****

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

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

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

-- *****
--
-- COMPRESSED MODE FAILURE FDD
--
-- *****

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

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

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

-- *****
--
-- COMPRESSED MODE CANCEL FDD
--
-- *****

CompressedModeCancel ::= SEQUENCE {

```

```

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

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

CompressedModeCancel-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 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
PDSCH-ReconfRqst-ExtIEs} }      OPTIONAL,      ProtocolExtensionContainer { {PDSCHSets-ModifyItem-
    ...
}

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      PDSCH-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 OPTIONAL,
  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 OPTIONAL,
  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}}          OPTIONAL,
    ...
}

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}}          OPTIONAL,
    ...
}

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

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

END

```

### 9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC-1,
    maxNrOfTFs,
    maxTTI-count,

```



```

maxRateMatching,
maxCodeNrComp-1,
maxNrOfCodeGroups,
maxNrOfTFCIGroups,
maxNrOfTFCI1Combs,
maxNrOfTFCI2Combs,
maxCTFC-DCH-1,
maxCTFC-DSCH-1,
maxNrOfSF
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,
    ...
}

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..2047)
-- Time = BCCH-ModificationTime * 2
-- Range 0 to 4094, step 2
-- All even SFN values 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,
    macrodiversity-combining-not-possible,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    sIB-Origination-in-Node-B-not-Supported,
    unspecified,
    priority-transport-channel-established,
    ...
}

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)

CFNOffset ::= INTEGER (0..255)

Channel-Assignment-Indication ::= ENUMERATED {
    cA-Active,
    cA-Inactive
}

ChipOffset ::= INTEGER (0..38399)
-- Unit Chip

C-ID ::= INTEGER (0..65535)

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
    SEQUENCE {
        dl-Cost      INTEGER (0..65535),
        ul-Cost      INTEGER (0..65536)
    }

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)

CompressedModeMethod ::= ENUMERATED {
    none,
    puncturing,
    half-SF,
    higher-Layer-Scheduling,
    ...
}
-- none = restore the normal mode

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

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-CombinationInd ::= INTEGER (0..255)
```

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

```

DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
    SEQUENCE {
        dl-Cost    INTEGER (0..65535),
        ul-Cost    INTEGER (0..65536)
    }

```

```

DedicatedMeasurementObjectType ::= ENUMERATED {
    rl,
    rls,
    all-rl,
    all-rls,
    ...
}

```

```

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rscp,
    ...
}

```

```

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value          SIR-Value,
    sIR-ErrorValue    SIR-Error-Value,
    transmittedCodePowerValue    Transmitted-Code-Power-Value,
    rSCP              RSCP-Value,
    ...
}

```

```

}
|
|
| Detected-PCPCH-access-preambles ::= INTEGER (0..240)
| -- According to mapping in [4]
|
D-FieldLength ::= ENUMERATED {
    v1,
    v2,
    ...
}

DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not,
    ...
}

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closed-loop-model,
    closed-loop-mode2,
    ...
}

DL-DPCH-SlotFormat ::= INTEGER (0..16)

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

DL-or-Global-CapacityCredit ::= INTEGER (0..65535)

DL-Power ::= INTEGER (-350..150)
-- DL-Power = power * 10
-- If Power <=-35 DL-Power shall be set to -350
-- if Power >=15 DL-Power shall be set to 150
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --

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 [TS 25.211] --

FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    ...
}

FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lower priority, 15=higher priority --

FrameOffset ::= INTEGER (0..255)

```

```

-- =====
-- G
-- =====

GapPeriod ::= INTEGER (0..255)
-- Unit Frame

GapPositionMode ::= ENUMERATED {
    fixed,
    flexible,
    ...
}

-- =====
-- H
-- =====

-- =====
-- I
-- =====

IB-SG-DATA ::= BIT STRING

IB-SG-POS ::= INTEGER (0..2064)
-- 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,
    ...
}

-- =====
-- J
-- =====

-- =====
-- K
-- =====

-- =====
-- L
-- =====

Local-Cell-ID ::= INTEGER (0..268435455)

-- =====
-- M
-- =====

MaximumDL-PowerCapability ::= INTEGER(0..50)
-- Unit dBm, Range 0dBm .. 50dBm, Step +1dB

```

```

MaximumTransmissionPower ::= INTEGER(0..50)
-- Unit dB, Range 0dB .. 50dB, Step +1dB

Max-Number-of-PCPCHes ::= INTEGER (1..64)

MaxNrOfUL-DPDCHs ::= INTEGER (1..6)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- 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)

NodeB-CommunicationContextID ::= INTEGER (0..1048575)

NStartMessage ::= INTEGER (1..8)

-- =====
-- O
-- =====

-- =====
-- P
-- =====

PagingIndicatorLength ::= INTEGER (2| 4| 8)

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
}
```

```
PD ::= INTEGER(0..2047, ...)
```

```
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
CodeInformationList-ExtIEs} }      ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-
        ...
        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
}

PowerControlMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range 0dB .. +6dB, Step +0.25dB

PowerResumeMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 [25.213] --

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-DCH,
    non-selected-DCH
}

-- =====
-- 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..15)

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,
    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,
    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)

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in 25.225

RSCP-Value-IncrDecrThres ::= INTEGER (0..80)

RSSI-Value ::= INTEGER(0..63)
-- According to mapping in 25.215/25.225

RSSI-Value-IncrDecrThres ::= INTEGER (0..62)

-- =====
-- S
-- =====

ScaledMaxAdjustmentPeriod ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

ScramblingCodeChange ::= ENUMERATED {
    code-change,
    no-code-change,
    ...
}

ScramblingCodeWordNumber ::= INTEGER (0..255)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)

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

-- to do, This parameter is present in NBAP tabular but not defined in IE(TS25.433v3.0.0)

```

```

SFN ::= INTEGER

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

SIB-DeletionIndicator ::= ENUMERATED {
    noDeletion,
    deletion,
    ...
}

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 25.215/25.225

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,
    ...
}

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)

```

```

TFCSI-SignallingMode-SplitType ::= ENUMERATED {
    hard,
    logical,
    ...
}

TFCSI-SignallingMode-TFCSI-SignallingOption ::= ENUMERATED {
    normal,
    split,
    ...
}

TGD ::= INTEGER (0..3839)

TGL ::= INTEGER (3| 4| 7| 10| 14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

TimeSlot-ISCP-Value ::= INTEGER (0..81)
-- According to mapping in 25.225

TimeSlot-ISCP-Value-IncrDecrThres ::= INTEGER (0..80)

TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
    ...
}

ToAWE ::= INTEGER (0..2559)
-- Unit ms

ToAWS ::= INTEGER (0..1279)
-- Unit ms

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

TFCS ::= SEQUENCE {
    dSCH
        CHOICE {
            no-Split-in-TFCSI
                TFCS-TFCSList,
            split-in-TFCSI
                SEQUENCE {
                    transportFormatCombination-DCH
                        TFCS-DCHList,
                    signallingMethod
                        CHOICE {
                            tFCI-Range
                                TFCS-TFC-MappingOnDSCHList,
                            explicit
                                TFCS-TFC-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 (1..maxCTFC-1)

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFC1Combs)) OF
  SEQUENCE {
    cTFC                TFCS-CTFC-DCH,
    iE-Extensions       ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs} }    OPTIONAL,
    ...
  }

TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-CTFC-DCH ::= INTEGER (0..maxCTFC-DCH-1)

TFCS-TFC-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value    TFCS-MaxTFCI-field2-Value,
    cTFC-DSCH              TFCS-CTFC-DSCH,
    iE-Extensions          ProtocolExtensionContainer { { TFCS-TFC-MappingOnDSCHList-
ExtIEs} }    OPTIONAL,
    ...
  }

TFCS-TFC-MappingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..511)

TFCS-CTFC-DSCH ::= INTEGER (0..maxCTFC-DSCH-1)

TFCS-TFC-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFC2Combs)) OF
  SEQUENCE {
    cTFC-DSCH            TFCS-CTFC-DSCH,
    iE-Extensions       ProtocolExtensionContainer { { TFCS-TFC-DSCHList-ExtIEs} }
    OPTIONAL,
    ...
  }

TFCS-TFC-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 ::= {
    ...
}

TransmissionTimeIntervallList ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
    SEQUENCE {
        transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval,
        iE-Extensions                  ProtocolExtensionContainer { { TransmissionTimeIntervallList-
ExtIEs} } OPTIONAL,
        ...
    }

TransmissionTimeIntervallList-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      TransmissionTimeIntervallList,
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent
    ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
    tdd      TransportFormatSet-SecondInterleavingMode,
    ...
}

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 (1..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-CompressedModeSelection ::= ENUMERATED {
    ul-only,
    dl-only,
    both,
    ...
}

UL-DeltaSIR ::= INTEGER (-60..100)
-- UL-DeltaSIR = DeltaSIR * 10
-- Unit dB, Range -6dB .. 10dB, Step 0.1dB

UL-DeltaSIR-after ::= INTEGER (-60..100)
-- UL-DeltaSIR = DeltaSIR * 10
-- Unit dB, Range -6dB .. 10dB, Step 0.1dB

UL-DPCCH-SlotFormat ::= INTEGER (0..5)

UL-SIR ::= INTEGER (-82..173)
-- According to mapping in 25.427

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-compressedModeCancellation INTEGER ::= 13
id-compressedModeCommit     INTEGER ::= 14
id-compressedModePreparation INTEGER ::= 15
id-dedicatedMeasurementFailure INTEGER ::= 16
id-dedicatedMeasurementInitiation INTEGER ::= 17
id-dedicatedMeasurementReport INTEGER ::= 18
id-dedicatedMeasurementTermination INTEGER ::= 19
id-downlinkPowerControl     INTEGER ::= 20
id-errorIndication          INTEGER ::= 21

```

```

id-physicalSharedChannelReconfiguration      INTEGER ::= 37
id-privateMessage                           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

```

```

-- *****
--
-- Extension constants
--
-- *****

```

```

maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs         INTEGER ::= 65535

```

```

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

```

```

maxNrOfCodes          INTEGER ::= 10
maxNrOfCmpatterns    INTEGER ::= 8
maxNrOfDLCodes        INTEGER ::= 10
maxNrOfErrors         INTEGER ::= 10
maxNrOfTFs            INTEGER ::= 10
maxNrOfTFCs           INTEGER ::= 10
maxNrOfRFLs           INTEGER ::= 10
maxNrOfRFLSets        INTEGER ::= 10
maxNrOfDPCHs          INTEGER ::= 10
maxNrOfSCCPCHs        INTEGER ::= 10
maxNrOfPCPCHs         INTEGER ::= 64
maxNrOfPRACHs          INTEGER ::= 10
maxNrOfDCHs            INTEGER ::= 10
maxNrOfDSCHs           INTEGER ::= 10
maxNrOfFACHs           INTEGER ::= 10
maxNrOfCCTrCHs        INTEGER ::= 10
maxNrOfPDSCHs          INTEGER ::= 10
maxNrOfPUSCHs          INTEGER ::= 10
maxNrOfPDSCHSets      INTEGER ::= 10
maxNrOfPUSCHSets      INTEGER ::= 10
maxNrOfULTSs           INTEGER ::= 15
maxNrOfUSCHs           INTEGER ::= 10
maxAPSigNum           INTEGER ::= 16
maxSF                  INTEGER ::= 10
maxCellinNodeB         INTEGER ::= 10
maxCCPinNodeB          INTEGER ::= 10
maxCPCHCell            INTEGER ::= 64
maxCTFC-1              INTEGER ::= 10
maxLocalCellinNodeB   INTEGER ::= 10
maxNoofLen             INTEGER ::= 7
maxRACHCell            INTEGER ::= 10
maxPRACHCell           INTEGER ::= 10
maxPCPCHCell           INTEGER ::= 64
maxSCCPCHCell          INTEGER ::= 10
maxSCPICHCell          INTEGER ::= 10
maxTTI-count           INTEGER ::= 10
maxIBSEG               INTEGER ::= 10
maxIB                  INTEGER ::= 10
maxFACHCell            INTEGER ::= 10
maxRateMatching        INTEGER ::= 10
maxCodeNrComp-1        INTEGER ::= 10
maxNrOfCodeGroups      INTEGER ::= 10
maxNrOfTFCIGroups      INTEGER ::= 10
maxNrOfTFCI1Combs      INTEGER ::= 10
maxNrOfTFCI2Combs      INTEGER ::= 10
maxCTFC-DCH-1          INTEGER ::= 10

```

```

maxCTFC-DSCH-1          INTEGER ::= 10
maxNrOfSF              INTEGER ::= 8

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp          INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD INTEGER ::= 2
id-AllRLItem-DM-Rprt                     INTEGER ::= 3
id-AllRLItem-DM-Rsp                       INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                  INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                   INTEGER ::= 6
id-AP-AICH-InformationItem-AuditRsp      INTEGER ::= xx
id-AP-AICH-InformationItem-ResourceStatusInd INTEGER ::= xx
id-AP-AICH-ParametersList-IE-CTCH-ReconfRqstFDD INTEGER ::= xx
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-CDCA-ICH-InformationItem-AuditRsp     INTEGER ::= xx
id-CDCA-ICH-InformationItem-ResourceStatusInd INTEGER ::= xx
id-CDCA-ICH-ParametersList-IE-CTCH-ReconfRqstFDD INTEGER ::= xx
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-CommonTransportChannelType-CTCH-SetupRsp INTEGER ::= 39
id-CommunicationControlPortID             INTEGER ::= 40
id-CM-PatternInformationItem-CompressedModePrep INTEGER ::= 41
id-CM-PatternInformationList-CompressedModePrep INTEGER ::= 42
id-ConfigurationGenerationID              INTEGER ::= 43
id-CPCH-InformationItem-AuditRsp         INTEGER ::= xxx
id-CPCH-InformationItem-ResourceStatusInd INTEGER ::= xxx
id-CPCHItem-CM-Rprt                      INTEGER ::= xxx
id-CPCHItem-CM-Rqst                      INTEGER ::= xxx
id-CPCHItem-CM-Rsp                       INTEGER ::= xxx
id-CPCHListItem-CTCH-ReconfRqstFDD       INTEGER ::= xxx
id-CPCH-Parameters-CTCH-SetupRsp        INTEGER ::= xxx
id-CPCH-ParametersList-IE-CTCH-ReconfRqstFDD INTEGER ::= xxx
id-CRNC-CommunicationContextID           INTEGER ::= 44
id-CriticalityDiagnostics                 INTEGER ::= 45
id-DCH-AddListIE-RL-ReconfReady          INTEGER ::= 46
id-DCH-AddListIE-RL-ReconfRsp           INTEGER ::= 47
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-ModifyListIE-RL-ReconfReady                  | INTEGER ::= 60  |
| id-DCH-ModifyListIE-RL-ReconfRsp                    | INTEGER ::= 61  |
| 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                   | INTEGER ::= 66  |
| 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-ReconfRqstTDD       | INTEGER ::= 71  |
| id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD        | INTEGER ::= 72  |
| id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD     | INTEGER ::= 73  |
| id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD       | INTEGER ::= 74  |
| id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD       | INTEGER ::= 75  |
| 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-InformationListIE-RL-ReconfPrepTDD       | INTEGER ::= 80  |
| 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-ModifyListIE-RL-ReconfReady                 | INTEGER ::= 110 |
| id-DSCH-ModifyListIE-RL-ReconfRsp                   | INTEGER ::= 111 |
| id-DSCH-ModifyList-RL-ReconfPrepFDD                 | INTEGER ::= 112 |
| id-DSCH-ModifyList-RL-ReconfRqstFDD                 | INTEGER ::= 113 |
| id-DSCH-SetupListIE-RL-ReconfReady                  | INTEGER ::= 114 |
| id-DSCH-SetupListIE-RL-ReconfRsp                    | INTEGER ::= 115 |
| id-FACH-InformationItem-AuditRsp                    | INTEGER ::= 116 |
| id-FACH-InformationItem-ResourceStatusInd           | INTEGER ::= 117 |
| id-FACHItem-CTCH-SetupRsp                           | INTEGER ::= 118 |
| id-FACH-ParametersList-CTCH-ReconfRqstFDD           | INTEGER ::= 119 |
| 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-MaxAdjustmentPeriod                              | 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-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD | INTEGER ::= 141        |
| id-NonCombiningOrIENotPrsentItem-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-ReconfRqstFDD                | INTEGER ::= 154        |
| 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        |
| <u>id-PCPCH-InformationItem-AuditRsp</u>            | <u>INTEGER ::= xxx</u> |
| <u>id-PCPCH-InformationItem-ResourceStatusInd</u>   | <u>INTEGER ::= xxx</u> |
| <u>id-PCPCHItem-CTCH-SetupRqstFDD</u>               | <u>INTEGER ::= xxx</u> |
| <u>id-PCPCH-ParametersList-CTCH-ReconfRqstFDD</u>   | <u>INTEGER ::= xxx</u> |
| 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-ReconfRqstFDD               | INTEGER ::= 167        |
| 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-PRACH-ParametersList-CTCH-ReconfRqstFDD          | INTEGER ::= 174        |
| 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-ReconfigurationFailureList-RL-ReconfFailure          | INTEGER ::= 237 |
| 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-UARFCNforNd   | INTEGER ::= 280 |
| id-UARFCNforNn   | INTEGER ::= 281 |
| id-UARFCNforNu   | INTEGER ::= 282 |
| id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD              | INTEGER ::= 283 |
| id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD               | INTEGER ::= 284 |

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id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD          INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD            INTEGER ::= 286
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD           INTEGER ::= 287
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-InformationListIE-RL-ReconfPrepTDD           INTEGER ::= 292
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-USCH-ModifyListIE-RL-ReconfReady                     INTEGER ::= 311
id-USCH-ModifyListIE-RL-ReconfRsp                       INTEGER ::= 312
id-USCH-SetupListIE-RL-ReconfReady                      INTEGER ::= 313
id-USCH-SetupListIE-RL-ReconfRsp                       INTEGER ::= 314

```

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 146r1**

Current Version: **3.1.0.**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**  
 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:** Nokia **Date:** May , 2000

**Subject:** Compressed Mode

**Work item:**

|  |   |                                     |                                     |                          |                          |
|--|---|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| <b>Category:</b><br><small>(only one category shall be marked with an X)</small> | F Correction  | <input 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 checked="" 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:** Compressed mode measurement handling is updated on the same basis as in the related RNSAP change request.

The relevant difference from the related RNSAP CR are:

- Use of normal/alternate scrambling code change is indicated in the Request primitives (not in the Response). for this reason the group DL Code Information is added in the RL RECONFIGURATION REQUEST.

The Active pattern sequence information is not included in the RL addition (it is assumed that Node B keep track of the on going CM sequences in the already existing RL), but a flag is included in order to indicate that the ongoing CM measurements (if any) shall be not activated in the new RL to be setup.

**Draft1:** Changes respect the previous revision of the CR are highlighted in green.

Draft2: Changes respect the previous version (revision1 draft1) are made with new revision marks.

**Revision2:** Changes respect the previous version (revision1 draft1) are highlighted in yellow

**Clauses affected:** 2, 8.1, 8.2.17,8. 3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.14, 8.3.15, 8.3.16  
 9.1.35  
 9.1.38 Radio Link Addition Request (FDD)  
 9.1.59 Compressed Mode Prepare (FDD)  
 9.1.61 Compressed Mode Commit (FDD)  
 9.2.2 FDD Specific Parameters

**Other specs affected:**

Other 3G core specifications  
Other GSM core specifications  
MS test specifications  
BSS test specifications  
O&M specifications

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**Other comments:**

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## 2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] 3G TS 25.401: "UTRAN Overall Description".
- [2] 3G TS 25.426: "UTRAN  $I_{ur}$  and  $I_{ub}$  Interface Data Transport & Transport Signalling for DCH Data Streams".
- [3] CCITT Recommendation X.731 (01/92): "Information Technology – Open Systems Interconnection – Systems Management: State Management function".
- [4] 3G TS 25.215: "Physical layer – Measurements (FDD)".
- [5] 3G TS 25.225: "Physical layer – Measurements (TDD)".
- [6] 3G TS 25.430: "UTRAN  $I_{ub}$  General Aspect and Principle".
- [7] 3G TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [8] 3G TS 25.212: "Multiplexing and channel coding (FDD)".
- [9] 3G TS 25.213: "Spreading and modulation (FDD)".
- [10] 3G TS 25.214: "Physical layer procedures (FDD)".
- [11] X.691, (12/94) "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [12] X.680, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [13] X.681, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Information object specification"
- [14] 3G TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- [15] 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [16] 3G TS 25.331: "RRC Protocol Specification".
- [17] 3G TS 25.302: "Services Provided by the Physical Layer".

### 3.3 Abbreviations

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

|           |  |
|-----------|--|
| ASN.1     | Abstract Syntax Notation One           |
| ATM       | Asynchronous Transfer Mode             |
| BCCH      | Broadcast Control Channel              |
| CCPCH     | Common Control Physical Channel        |
| CFN       | Connection Frame Number                |
| <u>CM</u> | <u>Compressed Mode</u>                 |
| CRNC      | Controlling Radio Network Controller   |
| DCH       | Dedicated Channel                      |
| DL        | Downlink                               |
| DPCCH     | Dedicated Physical Control Channel     |
| DPCH      | Dedicated Physical Channel             |
| DPDCH     | Dedicated Physical Data Channel        |
| DSCH      | Downlink Shared Channel                |
| FDD       | Frequency Division Duplex              |
| FP        | Frame Protocol                         |
| L1        | Layer 1                                |
| L2        | Layer 2                                |
| NBAP      | Node B Application Part                |
| O&M       | Operation and Management               |
| PDSCH     | Physical Downlink Shared Channel       |
| PUSCH     | Physical Uplink Shared Channel         |
| RL        | Radio Link                             |
| RLS       | Radio Link Set                         |
| RNC       | Radio Network Controller               |
| RRC       | Radio Resource Control                 |
| SRNC      | Serving Radio Network Controller       |
| TDD       | Time Division Duplex                   |
| TFC       | Transport Format Combination           |
| TFCI      | Transport Format Combination Indicator |
| TFCS      | Transport Format Combination Set       |
| TFS       | Transport Format Set                   |
| TPC       | Transmit Power Control                 |
| UE        | User Equipment                         |
| UL        | Uplink                                 |
| USCH      | Uplink Shared Channel                  |
| UTRAN     | UMTS Terrestrial Radio Access Network  |



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## 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         |       |
| Synchronised Compressed Mode Control Preparation [FDD] | COMPRESSED MODE PREPARE                          | COMPRESSED MODE READY                             | COMPRESSED MODE FAILURE                          |       |

Table 2: Class 2

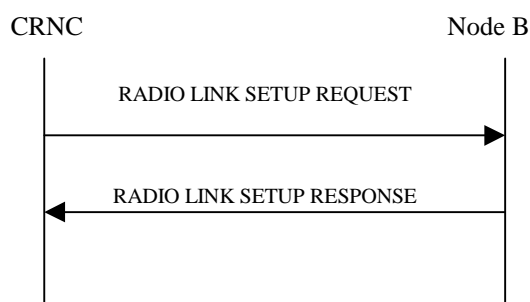
| Elementary Procedure                                 | Message                                   |
|--|---|
| Resource Status Indication                           | RESOURCE STATUS INDICATION                |
| Audit Required                                       | AUDIT REQUIRED INDICATION                 |
| 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 Commit Command               | COMPRESSED MODE COMMIT COMMAND            |
| Compressed Mode Control Cancellation                 | COMPRESSED MODE CANCEL                    |
| Unblock Resource                                     | UNBLOCK RESOURCE INDICATION               |
| Error Indication                                     | ERROR INDICATION                          |

## 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 - 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. ~~The information is stored until a new *Transmission Gap Pattern Sequence Information* IE is received or the last Radio Link of the UE in the Node B is removed.~~]

[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* ~~Activation CFN~~ 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. [174].]

[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.

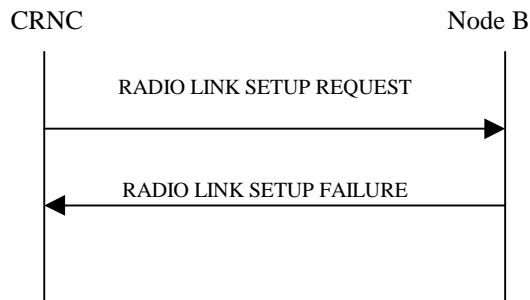
[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

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.

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]

[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
- [Invalid CM Settings.](#)

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention

- Unspecified
- Control processing overload
- HW failure

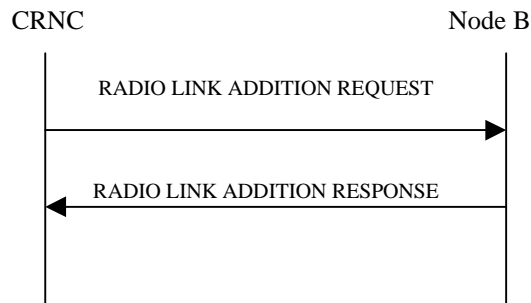
## 8.3.1 Radio Link Addition

### 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. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

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. 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.

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., even if those were active in the Radio Link previously setup. 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.

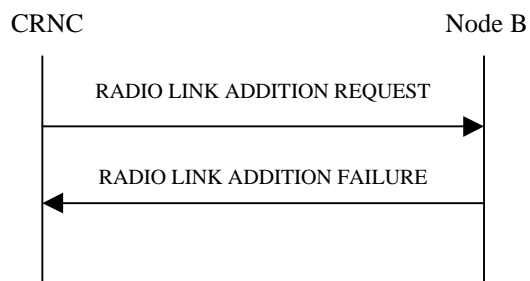
In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the coordinated DCHs.

[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]

### 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.

[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
- [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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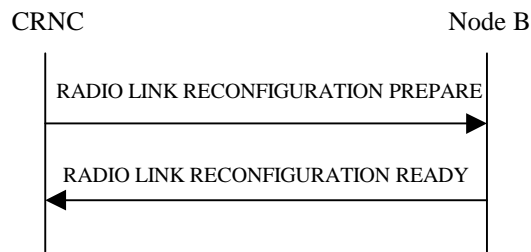
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 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 the *UL FP Mode* IE for a DCH to be modified, the Node B shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH to be modified, the Node B shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH to be modified, the Node B shall apply the new ToAWE in the user plane for this DCH 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 the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall.

1. treat all DCHs with the same value of this IE as a set of coordinated DCHs and
2. 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 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 to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH 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.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *UL DPCH Information* IE groups, the Node B shall apply the new UL physical channel(s) setting in the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *DL DPCH Information* IE groups, the Node B shall apply the new physical channel(s) setting 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.]

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 [TDD – the CCTrCH of] the new configuration.

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 [TDD – the CCTrCH 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.

#### **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-to-be-added group or DCH-to-be-modified group shall be included only for one of the DCH in the set of coordinated DCHs.

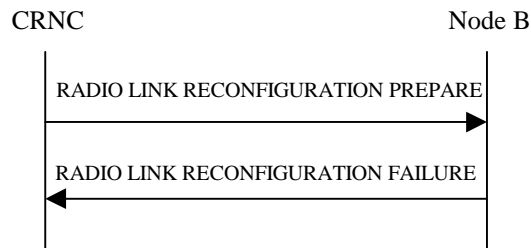
In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

#### **FDD – 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*.]

~~when those are activated. The information is stored until a new *Transmission Gap Pattern Sequence Information IE* is received or the last Radio Link of the UE in the Node B is removed.~~

### 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.

[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 RECONFIGURATION FAILURE message].

[FDD – If the Node B cannot provide the requested CM **pattern sequences**, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

#### Radio Network Layer Cause

—RL Already Activated/allocated

- Invalid CM Settings.

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention

- Unspecified

- Control processing overload

- HW failure

### 8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

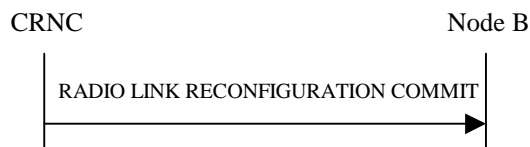
## 8.3.3 Synchronised Radio Link Reconfiguration Commit

### 8.3.3.1 General

This procedure is used to order the Node B to switch to the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

### 8.3.3.2 Successful Operation



**Figure 32: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation**

The Node B shall switch to the new configuration previously prepared by the Synchronised RL Reconfiguration procedure at the CFN requested by the CRNC when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC. [FDD – The CFN shall be ignored by Node B if only Transmission Gap Pattern Sequence Information was included in the RL Reconfiguration.] When this procedure has been completed the Prepared Reconfiguration does not exist any more, see chapter 3.1.

[FDD - If the RADIO LINK RECONFIGURATION COMMIT includes the Active Pattern Sequence Information IE, the Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the CM Configuration Change CFN. From that moment on all Transmission Gap Pattern Sequences included in Transmission Gap Pattern Sequence Status IE group repetitions shall be started when the indicated TGCFN elapses. the Node B shall activate the indicated CM pattern sequences at the specified moment in time. The CM Configuration Change CFN in the Active Pattern Sequence Information IE Activation CFN and TGCFN for each sequence in the Active Pattern Sequence Information IE refers to the next coming CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B shall behave as specified in Ref. [17+].-]

### 8.3.3.3 Abnormal Conditions

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## 8.3.4 Synchronised Radio Link Reconfiguration Cancellation

### 8.3.4.1 General

This procedure is used to order the Node B to release the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

### 8.3.4.2 Successful Operation



**Figure 33: Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation**

When receiving the RADIO LINK RECONFIGURATION CANCEL message from the CRNC, the Node B shall release the new configuration (FDD - including the new Transmission Gap Pattern Sequence parameters (if existing)) previously prepared by the Synchronised RL Reconfiguration Preparation procedure and continue using the old configuration. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see chapter 3.1.

### 8.3.4.3 Abnormal Conditions

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## 8.3.5 Unsynchronised Radio Link Reconfiguration

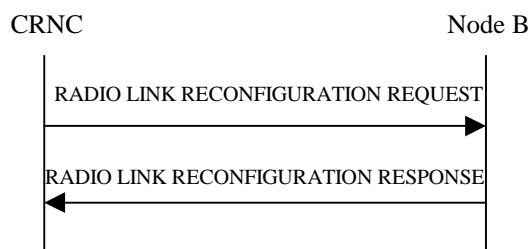
### 8.3.5.1 General

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 the *UL FP Mode* IE for a DCH to be modified, the Node B shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH to be modified, the Node B shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH to be modified, the Node B shall apply the new ToAWE in the user plane for this DCH 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 the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall.

1. Treat all DCHs with the same value of this IE as a set of coordinated DCHs and
2. 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 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 to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

If 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:**

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS (UL)* IE, the Node B shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS (DL)* IE, the Node B shall apply the new TFCS in the Downlink of [TDD – the CCTrCH 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 contains the *DL Code Information Transmission Gap Pattern Sequence 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.]

#### **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-to-be-added group or DCH-to-be-modified group shall be included for one of the DCH in the set of coordinated DCHs.

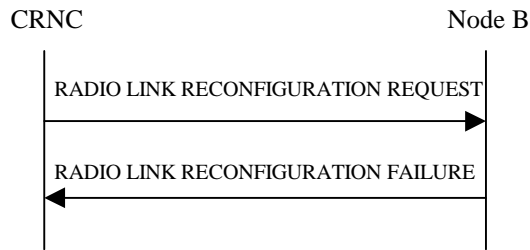
In case of a Radio Link being combined with another Radio Link within the Node B, RL Information Response IE group shall be included only for one of the combined Radio Links.

#### **FDD–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.]

when those are activated. The information is stored until a new *Transmission Gap Pattern Sequence Information IE* is received or the last Radio Link of the UE in the Node B is removed.]

### 8.3.5.3 Unsuccessful Operation



**Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of coordinated, DCHs requested to be set-up it shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s) the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

[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 RECONFIGURATION FAILURE message].

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 8.3.5.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

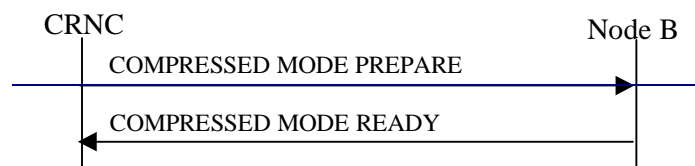
## 8.3.14 Compressed Mode Preparation [FDD]

### 8.3.14.1 General

The Compressed Mode Preparation procedure is used to prepare the compressed mode in the NodeB for one UE-UTRAN connection.

The Compressed Mode Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.14.2 Successful Operation



**Figure 45 Compressed Mode Preparation procedure, Successful Operation**

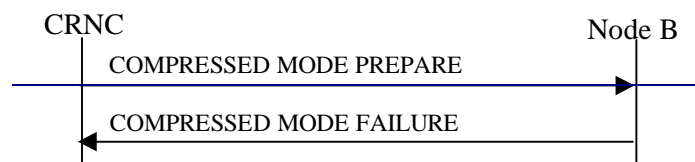
The Compressed Mode Preparation procedure is initiated by the CRNC by sending the COMPRESSED MODE PREPARE message to the Node B.

If the *PD IE* is set to 'infinite', the Node B shall continue with the compressed mode until it is requested to terminate the compressed mode.

If the proposed modifications are allowed by the Node B and the Node B has successfully initialised the required resources, the Node B shall respond to the CRNC with COMPRESSED MODE READY message.

If the *Compressed Mode Method IE* is set to 'None', the Node B shall terminate the compressed mode even if the COMPRESSED MODE PREPARE message was received before the end of the compressed mode period.

### 8.3.14.3 Unsuccessful Operation



**Figure 46: Compressed Mode Preparation procedure, Unsuccessful Operation**

If the requested reconfiguration fails for one or more RLS the Node B shall abort the procedure and send the COMPRESSED MODE FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are:

#### Radio Network Layer Causes:

- Requested Configuration not Supported

#### Miscellaneous Causes:

- Not enough User Plane Processing Resources

### 8.3.14.4 Abnormal Conditions

## 8.3.15 Compressed Mode ~~Commit~~ Command [FDD]

### 8.3.15.1 General

The Compressed Mode ~~Commit~~ Command procedure is used to activate the compressed mode in the Node B for one UE-UTRAN connection.

The Compressed Mode ~~Command~~ Commit procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.15.2 Successful Operation

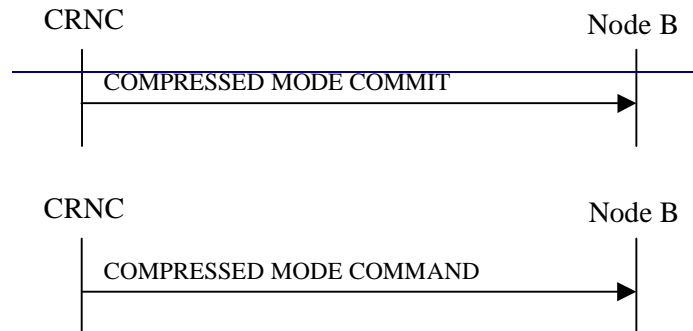


Figure 47: Compressed Mode ~~Commit~~ Command procedure, Successful Operation

The Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the CM Configuration Change CFN requested by CRNC when receiving COMPRESSED MODE COMMAND message from the CRNC. Upon the reception of COMPRESSED MODE COMMAND message the Node B shall From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status IE* group repetitions shall be started when the indicated TGCFN elapses. activate the transmission gap pattern sequences at the specified moment in time. The CM Configuration Change CFN in the *Active Pattern Sequence Information IE* Activation CFN and TGCFN for each sequence in the *Active Pattern Sequence Information IE* refers to the next coming CFN with that value.

If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in Ref. [174].

The Node B shall initiate the compressed mode in accordance with the settings prepared by the Compressed Mode Preparation procedure at the CFN requested by the CRNC when receiving the COMPRESSED MODE COMMIT message from the CRNC.

### 8.3.15.3 Abnormal Conditions

-

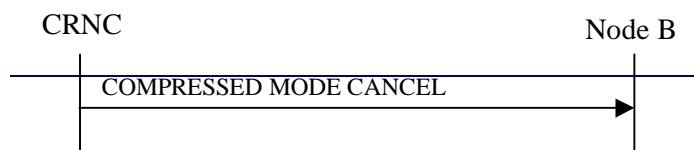
## 8.3.16 Compressed Mode Cancellation [FDD]

### 8.3.16.1 General

The Compressed Mode Cancellation procedure is used to cancel the compressed mode in the Node B for one UE-UTRAN connection.

The Compressed Mode Cancellation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

~~8.3.16.2 Successful Operation~~



~~Figure 48: Compressed Mode Cancellation procedure, Successful Operation~~

~~The Node B shall abort the compressed mode if it receives the COMPRESSED MODE CANCEL message.~~

~~8.3.16.3 Abnormal Conditions~~

~~-~~

## 9.1.35 RADIO LINK SETUP REQUEST

## 9.1.35.1 FDD message

| IE/Group Name                       | Presence      | Range               | IE type and reference | Semantics description           | Criticality | Assigned Criticality |
|-------------------------------------|---------------|---------------------|-----------------------|---------------------------------|-------------|----------------------|
| Message Discriminator               | M             |                     |                       |                                 | –           |                      |
| Message Type                        | M             |                     |                       |                                 | YES         | reject               |
| CRNC Communication Context ID       | M             |                     |                       |                                 | YES         | reject               |
| Transaction ID                      | M             |                     |                       |                                 | –           |                      |
| <b>UL DPCH Information</b>          |               | 1                   |                       |                                 | YES         | reject               |
| >UL Scrambling Code                 | M             |                     |                       |                                 | –           |                      |
| >Min UL Channelisation Code length  | M             |                     |                       |                                 | –           |                      |
| >Max Number of UL DPDCHs            | C – CodeLen   |                     |                       |                                 | –           |                      |
| >puncture limit                     | M             |                     |                       | For UL                          | –           |                      |
| >TFCS                               | M             |                     |                       | for UL                          | –           |                      |
| >UL DPCCH Slot Format               | M             |                     |                       |                                 | –           |                      |
| > UL SIR Target                     | M             |                     | UL SIR                |                                 | –           |                      |
| >Diversity mode                     | M             |                     |                       |                                 | –           |                      |
| >D Field Length                     | C – FB        |                     |                       |                                 | –           |                      |
| >SSDT cell ID Length                | O             |                     |                       |                                 | –           |                      |
| >S Field Length                     | O             |                     |                       |                                 | –           |                      |
| <b>DL DPCH Information</b>          |               |                     |                       |                                 | YES         | reject               |
| >TFCS                               | M             |                     |                       | For DL                          | –           |                      |
| >DL DPCH Slot Format                | M             |                     |                       |                                 | –           |                      |
| >TFCI signalling mode               | M             |                     |                       |                                 | –           |                      |
| >TFCI presence                      | C- SlotFormat |                     |                       |                                 | –           |                      |
| >Multiplexing Position              | M             |                     |                       |                                 | –           |                      |
| >PDSCH RL ID                        | C-DSCH        |                     | RL ID                 |                                 | –           |                      |
| >PDSCH code mapping                 | C-DSCH        |                     |                       |                                 | –           |                      |
| <b>&gt;Power Offset Information</b> |               | 1                   |                       |                                 | –           |                      |
| >>PO1                               | M             |                     | Power Offset          | Power offset for the TFCI bits  | –           |                      |
| >>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             |                     |                       |                                 | –           |                      |
| <b>DCH Information</b>              |               | 1 to <maxnoof DCHs> |                       |                                 | GLOBAL      | reject               |
| >DCH ID                             | M             |                     |                       |                                 | –           |                      |
| >DCH Combination Ind                | O             |                     |                       |                                 | –           |                      |
| >Limited Power Increase             | M             |                     |                       |                                 | –           |                      |
| >Transport Format Set               | M             |                     |                       | For UL                          | –           |                      |
| >Transport Format Set               | M             |                     |                       | For DL                          | –           |                      |
| >Frame Handling Priority            | M             |                     |                       |                                 | –           |                      |
| >Payload CRC Presence Indicator     | M             |                     |                       |                                 | –           |                      |
| >UL FP mode                         | M             |                     |                       |                                 | –           |                      |

|   |                          |                              |          |          |                     |                        |
|---|--------------------------|------------------------------|----------|----------|---------------------|------------------------|
| >QE-Selector  | M                        |                              |          |          |                     |                        |
| >ToAWS  | M                        |                              |          |          | -                   |                        |
| >ToAWE  | M                        |                              |          |          | -                   |                        |
| <b>DSCH Information</b>   |                          | 0 to<br><maxnoof<br>DSCHs>   |          |          | GLOBAL              | reject                 |
| >DSCH ID  | M                        |                              |          |          | -                   |                        |
| >Transport Format Set   | M                        |                              |          | For DSCH | -                   |                        |
| >Frame handling Priority  | M                        |                              |          |          | -                   |                        |
| >ToAWS  | M                        |                              |          |          | -                   |                        |
| >ToAWE  | M                        |                              |          |          | -                   |                        |
| <b>RL Information</b>   |                          | 1 to<br><maxnoof<br>RLs>     |          |          | EACH                | notify                 |
| >RL ID  | M                        |                              |          |          | -                   |                        |
| >C-ID   | M                        |                              |          |          | -                   |                        |
| >Frame Offset   | M                        |                              |          |          | -                   |                        |
| >Chip Offset  | M                        |                              |          |          | -                   |                        |
| >Propagation Delay  | O                        |                              |          |          | -                   |                        |
| >Diversity Control Field  | C –<br>NotFirstRL        |                              |          |          | -                   |                        |
| <b>&gt;DL Code Information</b>  |                          | 1 to<br><maxnoof-<br>DLCodes |          |          | -                   |                        |
| >>DL Scrambling Code  | M                        |                              |          |          | -                   |                        |
| >>FDD DL<br>Channelisation Code<br>Number                                     | M                        |                              |          |          | -                   |                        |
| >> <a href="#">Transmission Gap<br/>Pattern Sequence<br/>Code Information</a> | <a href="#">C-SF/2</a>   |                              |          |          | =                   |                        |
| >Initial DL transmission<br>Power   | M                        |                              | DL Power |          | -                   |                        |
| >Maximum DL power   | M                        |                              | DL Power |          | -                   |                        |
| >Minimum DL power   | M                        |                              | DL Power |          | -                   |                        |
| >SSDT Cell Identity   | O                        |                              |          |          | -                   |                        |
| >Transmit Diversity<br>Indicator  | C –<br>Diversity<br>mode |                              |          |          |                     |                        |
| <a href="#">Transmission Gap Pattern<br/>Sequence Information</a>             | <a href="#">Q</a>        |                              |          |          | <a href="#">YES</a> | <a href="#">reject</a> |
| <a href="#">Active Pattern Sequence<br/>Information</a>                       | <a href="#">Q</a>        |                              |          |          | <a href="#">YES</a> | <a href="#">reject</a> |



| 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"  |
| <a href="#">SF/2</a> | <u>This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> IE is included and the indicated <i>Downlink Ceompressed mMode</i> method for at least one of the included <i>Transmission Gap Pattern Sequence</i> is set to "SF/2" in the <i>Transmission Gap Pattern Sequence Information</i> IE.</u> |

| 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. |

## 9.1.38 RADIO LINK ADDITION REQUEST

## 9.1.38.1 FDD Message

| IE/Group Name  | Presence           | Range                         | IE type and reference | Semantics description | Criticality         | Assigned Criticality   |
|--|--------------------|-------------------------------|-----------------------|-----------------------|---------------------|------------------------|
| Message Discriminator  | M                  |                               |                       |                       | –                   |                        |
| Message Type   | M                  |                               |                       |                       | YES                 | reject                 |
| Node B Communication Context ID  | M                  |                               |                       |                       | YES                 | reject                 |
| Transaction ID   | M                  |                               |                       |                       | –                   |                        |
| <a href="#">Compressed Mode Deactivation Flag</a>                          | <a href="#">O</a>  |                               |                       |                       | <a href="#">YES</a> | <a href="#">reject</a> |
| <b>RL Information</b>  |                    | <i>1..&lt;maxnoofRL-1&gt;</i> |                       |                       | EACH                | notify                 |
| >RL ID   | M                  |                               |                       |                       | –                   |                        |
| >C-Id  | M                  |                               |                       |                       | –                   |                        |
| >Frame Offset  | M                  |                               |                       |                       | –                   |                        |
| >Chip Offset   | M                  |                               |                       |                       | –                   |                        |
| >Diversity Control Field   | M                  |                               |                       |                       | –                   |                        |
| <b>&gt;DL Code Information</b>   |                    | <i>1..maxnoofDL Codes</i>     |                       |                       | –                   |                        |
| >>DL Scrambling code   | M                  |                               |                       |                       | –                   |                        |
| >>FDD DL channelisation code number  | M                  |                               |                       |                       | –                   |                        |
| <a href="#">&gt;&gt;Transmission Gap Pattern Sequence Code Information</a> | <a href="#">O</a>  |                               |                       |                       | <a href="#">=</a>   |                        |
| >Initial DL transmission power   | O                  |                               | DL Power              |                       | –                   |                        |
| >Maximum DL power  | O                  |                               | DL Power              |                       | –                   |                        |
| >Minimum DL power  | O                  |                               | DL Power              |                       | –                   |                        |
| >SSDT Cell Identity  | O                  |                               |                       |                       | –                   |                        |
| >Transmit Diversity Indicator  | C – Diversity mode |                               |                       |                       |                     |                        |

| 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 |

## 9.1.41 RADIO LINK RECONFIGURATION PREPARE

## 9.1.41.1 FDD Message

| IE/Group Name                      | Presence      | Range              | IE Type and Reference | Semantic Description | Criticality | Assigned Criticality |
|------------------------------------|---------------|--------------------|-----------------------|----------------------|-------------|----------------------|
| Message Discriminator              | M             |                    |                       |                      | –           |                      |
| Message Type                       | M             |                    |                       |                      | YES         | reject               |
| Node B Communication Context ID    | M             |                    |                       |                      | YES         | reject               |
| Transaction ID                     | M             |                    |                       |                      | –           |                      |
| <b>UL DPCH Information</b>         |               | 0..1               |                       |                      | YES         | reject               |
| >UL Scrambling code                | O             |                    |                       |                      | –           |                      |
| >UL SIR Target                     | O             |                    | UL SIR                |                      |             |                      |
| >Min UL Channelisation Code Length | O             |                    |                       |                      | –           |                      |
| >Max Number of UL DPDCHs           | C – CodeLen   |                    |                       |                      | –           |                      |
| >Puncture Limit                    | O             |                    |                       | For UL               | –           |                      |
| >TFCS                              | O             |                    |                       |                      | –           |                      |
| >UL DPCH Slot Format               | O             |                    |                       |                      | –           |                      |
| >SSDT Cell Identity Length         | O             |                    |                       |                      | –           |                      |
| >S-Field Length                    | O             |                    |                       |                      | –           |                      |
| <b>DL DPCH Information</b>         |               | 0..1               |                       |                      | YES         | reject               |
| >TFCS                              | O             |                    |                       |                      | –           |                      |
| >DL DPCH Slot Format               | O             |                    |                       |                      | –           |                      |
| >TFCI Signalling Mode              | O             |                    |                       |                      | –           |                      |
| >TFCI presence                     | C-Slot Format |                    |                       |                      | –           |                      |
| >Multiplexing Position             | O             |                    |                       |                      | –           |                      |
| >PDSCH code mapping                | O             |                    |                       |                      |             |                      |
| >PDSCH RL ID                       | O             |                    | RL ID                 |                      |             |                      |
| <b>DCHs to Modify</b>              |               | 0..<max noofDC Hs> |                       |                      | GLOBAL      | reject               |
| >DCH ID                            | M             |                    |                       |                      | –           |                      |
| >Transport Format Set              | O             |                    |                       | For the UL.          | –           |                      |
| >Transport Format Set              | O             |                    |                       | For the DL.          | –           |                      |
| >Frame Handling Priority           | O             |                    |                       |                      | –           |                      |
| >UL FP Mode                        | O             |                    |                       |                      | –           |                      |
| >ToAWS                             | O             |                    |                       |                      | –           |                      |
| >ToAWE                             | O             |                    |                       |                      | –           |                      |
| <b>DCHs to Add</b>                 |               | 0..<max noofDC Hs> |                       |                      | GLOBAL      | reject               |
| >DCH ID                            | M             |                    |                       |                      | –           |                      |
| >DCH Combination Ind               | O             |                    |                       |                      | –           |                      |
| >Limited Power Increase            | M             |                    |                       |                      | –           |                      |
| >Transport Format Set              | M             |                    |                       | For the UL.          | –           |                      |
| >Transport Format Set              | M             |                    |                       | For the DL.          | –           |                      |
| >Frame Handling Priority           | M             |                    |                       |                      | –           |                      |
| >Payload CRC Presence Indicator    | M             |                    |                       |                      | –           |                      |
| >UL FP Mode                        | M             |                    |                       |                      | –           |                      |
| >QE-Selector                       | M             |                    |                       |                      | –           |                      |
| >ToAWS                             | M             |                    |                       |                      | –           |                      |
| >ToAWE                             | M             |                    |                       |                      | –           |                      |

|   |                        |  |          |             |                     |                        |
|---|------------------------|--|----------|-------------|---------------------|------------------------|
| <b>DCHs to Delete</b>   |                        | <i>0..&lt;max<br/>noofDC<br/>Hs&gt;</i>    |          |             | GLOBAL              | reject                 |
| >DCH ID   | M                      |  |          |             | –                   |                        |
| <b>DSCH to modify</b>   |                        | <i>0..&lt;max<br/>noofDS<br/>CHs&gt;</i>   |          |             | YES                 | reject                 |
| >DSCH ID  | M                      |  |          |             | –                   |                        |
| >Transport Format Set   | O                      |  |          | For the DL. | –                   |                        |
| >Frame Handling Priority  | O                      |  |          |             | –                   |                        |
| >ToAWS  | O                      |  |          |             | –                   |                        |
| >ToAWE  | O                      |  |          |             | –                   |                        |
| <b>DSCH to add</b>  |                        | <i>0..&lt;max<br/>noofDS<br/>CHs&gt;</i>   |          |             | YES                 | reject                 |
| >DSCH ID  | M                      |  |          |             | –                   |                        |
| >Transport Format Set   | M                      |  |          | For the DL. | –                   |                        |
| >Frame Handling Priority  | M                      |  |          |             | –                   |                        |
| >ToAWS  | M                      |  |          |             | –                   |                        |
| >ToAWE  | M                      |  |          |             | –                   |                        |
| <b>DSCH to Delete</b>   |                        | <i>0..&lt;max<br/>noofDS<br/>CHs&gt;</i>   |          |             | YES                 | reject                 |
| >DSCH ID  | M                      |  |          |             | –                   |                        |
| <b>RL Information</b>   |                        | <i>0..&lt;max<br/>noofRLs<br/>&gt;</i>     |          |             | EACH                | reject                 |
| >RL ID  | M                      |  |          |             | –                   |                        |
| <b>&gt;DL Code Information</b>  |                        | <i>0..&lt;max<br/>noofDL<br/>Codes&lt;</i> |          |             | –                   |                        |
| >>DL Scrambling Code  | O                      |  |          |             | –                   |                        |
| >>FDD DL Channelisation<br>Code Number  | O                      |  |          |             | –                   |                        |
| >> <a href="#">Transmission Gap<br/>Pattern Sequence Code<br/>Information</a> | <a href="#">C-SF/2</a> |  |          |             | =                   |                        |
| >Maximum DL Power   | O                      |  | DL Power |             | –                   |                        |
| >Minimum DL Power   | O                      |  | DL Power |             | –                   |                        |
| >SSDT Indication  | O                      |  |          |             | –                   |                        |
| >SSDT Cell Identity   | C -<br>SSDTIndON       |  |          |             | –                   |                        |
| <a href="#">Transmission Gap Pattern<br/>Sequence Information</a>             | <a href="#">Q</a>      |  |          |             | <a href="#">YES</a> | <a href="#">reject</a> |

| 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.  |
| <u>SF/2</u> | <del>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". This IE is present only if Downlink compressed mode method is set to "SF/2" in the <i>Transmission Gap Pattern Sequence Information</i> IE.</del> |

| 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. |

## 9.1.44 RADIO LINK RECONFIGURATION COMMIT

| IE/Group Name                                       | Presence          | Range | IE Type and Reference | Semantic Description | Criticality         | Assigned Criticality   |
|---|-------------------|-------|-----------------------|----------------------|---------------------|------------------------|
| Message Discriminator                               | M                 |       |                       |                      | –                   |                        |
| Message type  | M                 |       |                       |                      | YES                 | ignore                 |
| Node B Communication Context ID                     | M                 |       |                       |                      | YES                 | ignore                 |
| Transaction ID                                      | M                 |       |                       |                      | –                   |                        |
| CFN   | M                 |       |                       |                      | YES                 | ignore                 |
| <a href="#">Active Pattern Sequence Information</a> | <a href="#">O</a> |       |                       |                      | <a href="#">YES</a> | <a href="#">ignore</a> |

## 9.1.46 RADIO LINK RECONFIGURATION REQUEST

## 9.1.46.1 FDD Message

| IE/Group Name                   | Presence | Range               | IE Type and Reference | Semantic Description | Criticality | Assigned Criticality |
|---------------------------------|----------|---------------------|-----------------------|----------------------|-------------|----------------------|
| Message Discriminator           | M        |                     |                       |                      | –           |                      |
| Message Type                    | M        |                     |                       |                      | YES         | reject               |
| Node B Communication Context ID | M        |                     |                       |                      | YES         | reject               |
| Transaction ID                  | M        |                     |                       |                      | –           |                      |
| <b>UL DPCH Information</b>      |          | 0..1                |                       |                      | YES         | reject               |
| >TFCS                           | O        |                     |                       | For the UL.          | –           |                      |
| <b>DL DPCH Information</b>      |          | 0..1                |                       |                      | YES         | reject               |
| >TFCS                           | O        |                     |                       | For the DL.          | –           |                      |
| >TFCI Signalling Mode           | O        |                     |                       |                      | –           |                      |
| >PDSCH code mapping             | O        |                     |                       |                      |             |                      |
| >PDSCH RL ID                    | O        |                     | RL ID                 |                      |             |                      |
| <b>DCHs to Modify</b>           |          | 0..<maxn oofDCHs >  |                       |                      | GLOBAL      | reject               |
| >DCH ID                         | M        |                     |                       |                      | –           |                      |
| >Transport Format Set           | O        |                     |                       | For the UL.          | –           |                      |
| >Transport Format Set           | O        |                     |                       | For the DL.          | –           |                      |
| >Frame Handling Priority        | O        |                     |                       |                      | –           |                      |
| >UL FP Mode                     | O        |                     |                       |                      | –           |                      |
| >ToAWS                          | O        |                     |                       |                      | –           |                      |
| >ToAWE                          | O        |                     |                       |                      | –           |                      |
| <b>DCHs to Add</b>              |          | 0..<maxn oofDCHs >  |                       |                      | GLOBAL      | reject               |
| >DCH ID                         | M        |                     |                       |                      | –           |                      |
| >DCH Combination Ind            | O        |                     |                       |                      | –           |                      |
| >Limited Power Increase         | M        |                     |                       |                      | –           |                      |
| >Transport Format Set           | M        |                     |                       | For the UL.          | –           |                      |
| >Transport Format Set           | M        |                     |                       | For the DL.          | –           |                      |
| >Frame Handling Priority        | M        |                     |                       |                      | –           |                      |
| >Payload CRC Presence Indicator | M        |                     |                       |                      | –           |                      |
| >UL FP mode                     | M        |                     |                       |                      | –           |                      |
| >QE-Selector                    | M        |                     |                       |                      | –           |                      |
| >ToAWS                          | M        |                     |                       |                      | –           |                      |
| >ToAWE                          | M        |                     |                       |                      | –           |                      |
| <b>DCHs to Delete</b>           |          | 0..<maxn oofDCHs >  |                       |                      | GLOBAL      | reject               |
| >DCH ID                         | M        |                     |                       |                      | –           |                      |
| <b>DSCH to Modify</b>           |          | 0..<maxn oofDSCHs > |                       |                      | YES         | reject               |
| >DSCH ID                        | M        |                     |                       |                      | –           |                      |
| >Transport Format Set           | O        |                     |                       | For the DL.          | –           |                      |
| >Frame Handling Priority        | O        |                     |                       |                      | –           |                      |
| >ToAWS                          | O        |                     |                       |                      | –           |                      |
| >ToAWE                          | O        |                     |                       |                      | –           |                      |
| <b>DSCH to Add</b>              |          | 0..<maxn oofDSCHs > |                       |                      | YES         | reject               |

|  |               |  |          |             |            |               |
|--|---------------|--|----------|-------------|------------|---------------|
| >DSCH ID   | M             |  |          |             | -          |               |
| >Transport Format Set                                | M             |  |          | For the DL. | -          |               |
| >Frame Handling Priority                             | M             |  |          |             | -          |               |
| >ToAWS   | M             |  |          |             | -          |               |
| >ToAWE   | M             |  |          |             | -          |               |
| <b>DSCH to Delete</b>                                |               | 0..1                                       |          |             | YES        | reject        |
| >DSCH ID   | M             |  |          |             | -          |               |
| <b>Radio Link Information</b>                        |               | 0..<maxn<br>oofRLs>                        |          |             | EACH       | reject        |
| >RL ID   | M             |  |          |             | -          |               |
| >Maximum DL Power                                    | O             |  | DL Power |             | -          |               |
| >Minimum DL Power                                    | O             |  | DL Power |             | -          |               |
| <b>&gt;DL Code Information</b>                       | <u>C-SF/2</u> | <u>0..&lt;maxn<br/>oofDLCo<br/>des&lt;</u> |          |             | =          |               |
| >>DL Scrambling Code                                 | <u>0</u>      |  |          |             | =          |               |
| >>FDD DL Channelisation Code Number                  | <u>0</u>      |  |          |             | =          |               |
| >>Transmission Gap Pattern sequence Code Information | <u>0</u>      |  |          |             | =          |               |
| Transmission Gap Pattern Sequence Information        | <u>0</u>      |  |          |             | <u>YES</u> | <u>reject</u> |

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

| Condition   | Explanation   |
|-------------|---|
| <u>SF/2</u> | <i>This IE group is present only if the <u>Transmission Gap Pattern Sequence Information</u> IE is included and the indicated Downlink Compressed Mode method for at least one of the included Transmission Gap Pattern Sequence is set to "SF/2". <u>DL-Code-Information</u> is present only if Downlink-compressed mode method is set to "SF/2" in the <u>Transmission-Gap-Pattern Sequence Information</u> IE.</i> |



### 9.1.59 COMPRESSED MODE PREPARE [FDD]

Void:

| IE/Group Name                                 | Presence | Range  | IE type and reference | Semantics description  | Criticality | Assigned Criticality |
|---|----------|--------|-----------------------|------------------------|-------------|----------------------|
| Message-Discriminator                         | M        |        |                       |                        | -           |                      |
| Message-Type                                  | M        |        |                       |                        | YES         | reject               |
| Node-B-communication-context-ID               | M        |        |                       |                        | YES         | reject               |
| Transaction-ID                                | M        |        |                       |                        | -           |                      |
| <b>CM Pattern Information</b>                 |          | 1 to 8 |                       | Range defined ref. [4] |             |                      |
| >CFN-Offset                                   | M        |        |                       |                        |             |                      |
| >TGP1   | M        |        | Gap-Period            | Refer to [4]           | YES         | reject               |
| >TGP2   | O        |        | Gap-Period            | Refer to [4]           | YES         | reject               |
| >TGL  | M        |        |                       |                        | YES         | reject               |
| >TGD  | M        |        |                       |                        | YES         | reject               |
| >PD   | M        |        |                       |                        | YES         | reject               |
| >UL/DL-compressed-mode-selection              | M        |        |                       |                        | YES         | reject               |
| >Compressed-mode-method                       | M        |        |                       |                        | YES         | reject               |
| >Gap-Position-Mode                            | M        |        |                       |                        | YES         | reject               |
| >SN   | C-Flex   |        | TimeSlot              |                        | YES         | reject               |
| >Downlink-Frame-Type                          | M        |        |                       |                        | YES         | reject               |
| >Scrambling-Code-Change                       | C-SF/2   |        |                       |                        | YES         | reject               |
| >Power-Control-Mode                           | M        |        |                       |                        | YES         | reject               |
| >Power-Resume-Mode                            | M        |        |                       |                        | YES         | reject               |
| >UL-delta-SIR                                 | M        |        |                       |                        | YES         | reject               |
| >UL-delta-SIR-after                           | M        |        |                       |                        | YES         | reject               |
| Transmission Gap Pattern Sequence Information | M        |        |                       |                        | YES         | reject               |

| Condition | Explanation  |
|-----------|--|
| Flex      | This IE is present only if "Gap-position-Mode" equals to 'flexible'. |
| SF/2      | This IE is present only if Compressed-Mode-Method equals to SF/2     |

### 9.1.60 COMPRESSED MODE READY [FDD]

Void:

| IE/Group Name                 | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator         | M        |       |                       |                       | -           |                      |
| Message Type                  | M        |       |                       |                       | YES         | reject               |
| CRNC communication context ID | M        |       |                       |                       | YES         | ignore               |
| Transaction ID                | M        |       |                       |                       | -           |                      |
| Criticality diagnostics       | 0        |       |                       |                       | YES         | ignore               |

### 9.1.5964 COMPRESSED MODE COMMAND [FDD]

| IE/Group Name                       | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator               | M        |       |                       |                       | -           |                      |
| Message Type                        | M        |       |                       |                       | YES         | ignore               |
| Node B communication context ID     | M        |       |                       |                       | YES         | ignore               |
| Transaction ID                      | M        |       |                       |                       | -           |                      |
| CFN                                 | M        |       |                       |                       | YES         | ignore               |
| Active Pattern Sequence Information | M        |       |                       |                       | YES         | ignore               |

### ~~9.1.62 COMPRESSED MODE FAILURE [FDD]~~

Void

| IE/Group Name                 | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------------|----------|-------|-----------------------|-----------------------|-------------|----------------------|
| Message Discriminator         | M        |       |                       |                       | -           |                      |
| Message Type                  | M        |       |                       |                       | YES         | reject               |
| CRNC communication context ID | M        |       |                       |                       | YES         | ignore               |
| Transaction ID                | M        |       |                       |                       | -           |                      |
| Cause                         | M        |       |                       |                       | YES         | ignore               |
| Criticality diagnostics       | 0        |       |                       |                       | YES         | ignore               |

### ~~9.1.63 COMPRESSED MODE CANCEL [FDD]~~

Void

| <b>IE/Group Name</b>            | <b>Presence</b> | <b>Range</b> | <b>IE type and reference</b> | <b>Semantics description</b> | <b>Criticality</b> | <b>Assigned Criticality</b> |
|---------------------------------|-----------------|--------------|------------------------------|------------------------------|--------------------|-----------------------------|
| Message Discriminator           | M               |              |                              |                              | -                  |                             |
| Message Type                    | M               |              |                              |                              | YES                | reject                      |
| Node-B communication context ID | M               |              |                              |                              | YES                | ignore                      |
| Transaction ID                  | M               |              |                              |                              | -                  |                             |

## 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<br>(unknown C-ID,<br>Cell not available,<br>Power level not supported,<br>UL scrambling code already in use,<br>DL radio resources not available,<br>UL radio resources not available,<br>RL Already Activated/allocated,<br>Node B Resources Unavailable,<br>Insufficient physical channel resources,<br>Measurement not supported for the object,<br>Macrodiversity combining not possible,<br>Reconfiguration not allowed,<br>Requested configuration not supported,<br>Synchronization failure,<br>Priority transport channel established,SIB Origination in Node B not Supported,<br>Unspecified, <a href="#">Invalid CM Settings</a> ) |                       |
| >Transport Layer           |          |       |   |                       |
| >Transport Layer Cause     | M        |       | Enumerated<br>(Transport link failure,<br>Transmission port not available,<br>Transport resource unavailable,<br>Unspecified)   |                       |
| >Protocol                  |          |       |   |                       |
| >Protocol Cause            |          |       | Enumerated<br>(Transaction not allowed,<br>Transfer syntax error,<br>Abstract syntax error (reject),<br>Abstract syntax error (ignore and notify),<br>Message not compatible with receiver state,<br>Semantic error,<br><br>Unspecified)  |                       |
| >Misc                      |          |       |   |                       |
| >Miscellaneous Cause       | M        |       | Enumerated<br>(Control processing overload<br>Hardware failure,<br>O&M intervention,<br>Not enough user plane processing resources,<br>Unspecified)   |                       |

## 9.2.1.41 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       |          | 1     |   |                                 |
| >>Procedure Code    |          |       | 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 TERMINATION 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 TERMINATION FAILURE, RL FAILURE, RL RESTORATION, <del>COMPRESSED MODE PREPARATION</del> , <del>COMPRESSED MODE COMMAND</del> , <del>COMPRESSED MODE CANCELLATION</del> ERROR INDICATION, ...) |                                 |
| >>Dmode             | M        |       | ENUMERATED (FDD, TDD, Common)   | Common = common to FDD and TDD. |
| >Type of Message    | M        |       | ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)  |                                 |

### 9.2.2.x Active Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence activation. For details see [16].

| <u>IE/Group Name</u>  | <u>Presence</u> | <u>Range</u>                | <u>IE type and reference</u>         | <u>Semantics description</u>   |
|---|-----------------|-----------------------------|--------------------------------------|--|
| <u>CM Configuration Change</u><br><u>CFN Activation-CFN</u>                                   | <u>M</u>        |                             | <u>CFN</u><br><u>Integer(0..255)</u> | Defines when the old Active pattern sequences, if active, shall be terminated. From this moment on, the new sequences are activated at the given TGCFN.                    |
| <u>Active Pattern Sequence Information</u><br><u>Transmission Gap Pattern Sequence Status</u> |                 | <u>0 to &lt;MaxTGPS&gt;</u> |                                      |  |
| <u>&gt; TGPSI</u>   | <u>M</u>        |                             | <u>Integer(1..&lt;MaxATGPS&gt;)</u>  | If the group is not present, none of the pattern sequences are activated.  |
| <u>&gt; TGPRC</u>   | <u>M</u>        |                             | <u>Integer(0..63)</u>                | The number of transmission gap patterns within the Transmission Gap Pattern Sequence.<br><u>0=Infinity</u>   |
| <u>&gt;TGCFN</u>  | <u>M</u>        |                             | <u>CFN</u><br><u>Integer(0..255)</u> | Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.<br><u>Transmission Gap Pattern Sequence activation time.</u> |

| <u>Range bound</u> | <u>Explanation</u>                                   |
|--------------------|--|
| <u>MaxTGPS</u>     | Maximum number of active pattern sequences. Value 6. |

### 9.2.2. x Compressed Mode Deactivation Flag

Compressed Mode Deactivation Flag indicates whether Compressed Mode shall be deactivated or not in the new RL.

| <u>IE/Group Name</u>                     | <u>Presence</u> | <u>Range</u> | <u>IE type and reference</u> | <u>Semantics description</u> |
|--|-----------------|--------------|------------------------------|------------------------------|
| <u>Compressed Mode Deactivation flag</u> | <u>⓪</u>        |              | <u>ENUMERATED(On, Off)</u>   | <u>On = deactivate.</u>      |

### 9.2.2.x Transmission Gap Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence. For details see [16].

| <u>IE/Group Name</u>                                 | <u>Presence</u> | <u>Range</u>   | <u>IE type and reference</u>                                 | <u>Semantics description</u>   |
|--|-----------------|----------------|--|--|
| <u>Transmission gap pattern Sequence Information</u> |                 | 1 to <MaxTGPS> |  |  |
| > TGPSI  | M               |                | Integer(1..<MaxTGPS>)  | Transmission Gap Pattern Sequence Identifier<br>Establish a reference to the compressed mode pattern sequence. Up to <MaxTGPS> simultaneous compressed mode pattern sequences can be used.   |
| > TGCFN  | M               |                | Integer (0..255)   | Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.  |
| > TGSN   | M               |                | Integer (0..14)  | Transmission Gap Starting Slot Number<br>The slot number of the first transmission gap slot within the TGCFN.  |
| > TGL1   | M               |                | Integer(1..14)   | The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots  |
| > TGL2   | O               |                | Integer (1..14)  | The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.   |
| > TGD  | M               |                | Integer (0, 15.. 269)  | Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0=undefined). |
| > TGPL1  | M               |                | Integer (1..144)   | The duration of transmission gap pattern 1.  |
| > TGPL2  | O               |                | Integer (1..144)   | The duration of transmission gap pattern 2. If omitted, then TGPL2=TGPL1.  |
| > RPP  | M               |                | Enumerated (mode 0, mode 1).                                 | Recovery Period Power control mode during the frame after the transmission gap within the compressed frame. Indicates whether normal PC mode or compressed PC mode is applied  |
| > ITPPRM   | M               |                | Enumerated (mode 0, mode 1).                                 | Initial Transmit Power is the uplink power control method to be used to compute the initial transmit power after the compressed mode gap.  |
| > UL/DL mode   | M               |                | Enumerated (UL only, DL only, UL/DL)                         | Defines whether only DL, only UL, or combined UL/DL compressed mode is used.   |
| > Downlink compressed mode method                    | C-DL            |                | Enumerated (puncturing, SF/2, higher layer scheduling, none) | Method for generating downlink compressed mode gap<br>None means that compressed mode pattern is stopped   |
| > Uplink compressed mode method                      | C-UL            |                | Enumerated (SF/2, none, higher layer)                        | Method for generating uplink compressed mode gap   |

|                       |   |  |                   |  |
|-----------------------|---|--|-------------------|--|
|                       |   |  | scheduling)       |  |
| > Downlink frame type | M |  | Enumerated (A, B) |  |
| DeltaSIR1             | M |  | Integer (0..30)   | Delta in DL SIR target value to be set in the UE during the compressed frames corresponding to the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase)<br><br>Step 0.1  |
| DeltaSIRafter1        | M |  | Integer (0..30)   | Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern..<br><br>Step 0.1   |
| DeltaSIR2             | O |  | Integer (0..30)   | Delta in DL SIR target value to be set in the UE during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase)<br>When omitted, DeltaSIR2 = DeltaSIR1.<br><br>Step 0.1 |
| DeltaSIRafter2        | O |  | Integer (0..30)   | Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern.<br>When omitted, DeltaSIRafter2 = DeltaSIRafter1.<br><br>Step 0.1                                     |

| Condition | Explanation  |
|-----------|--|
| C-UL      | This information element is only sent when the value of the "UL/DL mode" IE is "UL only" or "UL/DL". |
| C-DL      | This information element is only sent when the value of the "UL/DL mode" IE is "DL only" or "UL/DL". |

| Range bound | Explanation  |
|-------------|--|
| MaxTGPS     | Maximum number of transmission gap pattern sequences. Value 6. |

### 9.2.2.x Transmission Gap Pattern Sequence Code Information

This IE indicates whether the alternative scrambling code shall be used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see [16].



| <u>IE/Group Name</u>     | <u>Presence</u> | <u>Range</u> | <u>IE type and reference</u>             | <u>Semantics description</u>  |
|--------------------------|-----------------|--------------|--|---|
| > Scrambling code change | M               |              | Enumerated (code change, no code change) | Indicates whether the alternative scrambling code is used for compressed mode method 'SF/2' |

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

This chapter is for the time being only **INFORMATIVE**.

In case of misalignment with the tabular format of the messages in chapter 9.1 the ASN.1 needs to be aligned with the tabular format.

The setting of the criticality field and the level on which criticality is set for the IEs and sequences of IEs is still to be decided upon.

### 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,  
~~CompressedModePrepare,~~  
~~CompressedModeReady,~~  
 CompressedModeCommand,  
~~CompressedModeFailure,~~  
~~CompressedModeCancel,~~  
 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-compressedModeCancellation,~~  
~~id-compressedModeCommand,~~  
~~id-compressedModePreparation,~~  
 id-dedicatedMeasurementFailure,  
 id-dedicatedMeasurementInitiation,  
 id-dedicatedMeasurementReport,  
 id-dedicatedMeasurementTermination,  
 id-downlinkPowerControl,  
 id-errorIndication,  
 id-physicalSharedChannelReconfiguration,  
 id-privateMessage,  
 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
    compressedModePreparation
    ...
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
    resourceStatusIndication
    auditRequired
    commonMeasurementReport
    commonMeasurementTermination
    commonMeasurementFailure
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
    radioLinkFailure
    radioLinkRestoration
    dedicatedMeasurementReport
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
    downlinkPowerControlFDD
    compressedModeCommand
    compressedModeCancellation
    unblockResource
    errorIndication
    privateMessage
    ...
}

-- *****
--
-- 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
}


*** CompressedModePreparation (FDD only) ***
compressedModePreparation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CompressedModePrepare
    SUCCESSFUL OUTCOME      CompressedModeReady
    UNSUCCESSFUL OUTCOME    CompressedModeFailure
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-compressedModePreparation, ddMode fdd }
    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 ::= {
--itaba
    INITIATING MESSAGE      DL-PowerControlRequest
    MESSAGE DISCRIMINATOR   dedicated
--itaba
    PROCEDURE ID            { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY             ignore
}

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

| -- *** CompressedModeCancellation (FDD only) ***
| compressedModeCancellation NBAP-ELEMENTARY-PROCEDURE ::= {

```

```

INITIATING MESSAGE CompressedModeCancel
MESSAGE DISCRIMINATOR dedicated
PROCEDURE ID { procedureCode id compressedModeCancellation, 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 ***
errorIndication NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      ErrorIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-errorIndication, ddMode common }
  CRITICALITY             ignore
}

-- *** PrivateMessage ***
privateMessage NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      PrivateMessage
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-privateMessage, 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,
|   AvailabilityStatus,
|   BCCH-ModificationTime,
|   BindingID,
|   BlockingPriorityIndicator,
|   BlockSTTD-Indicator,
|   BurstType,
|   Cause,
|   CCTrCH-ID,
|   CellParameterID,
|   CFN,
| CFNOffset,
|   ChipOffset,
|   C-ID,
|   CommonChannelsCapacityConsumptionLaw,
| Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
|   CommonMeasurementType,
|   CommonMeasurementValue,
|   CommonPhysicalChannelID,
|   CommonTransportChannelID,
|   CommunicationControlPortID,
| CompressedModeMethod,
|   ConfigurationGenerationID,
|   CriticalityDiagnostics,
|   CRNC-CommunicationContextID,
|   DCH-CombinationInd,
|   DCH-ID,
|   DedicatedMeasurementObjectType,
|   DedicatedChannelsCapacityConsumptionLaw,
|   DedicatedMeasurementType,
|   DedicatedMeasurementValue,
|   D-FieldLength,
|   DiversityControlField,
|   DiversityMode,
|   DL-DPCH-SlotFormat,
| DL-FrameType,
|   DL-or-Global-CapacityCredit,
|   DL-Power,
|   DL-ScramblingCode,
|   DPCH-ID,
|   DSCH-ID,
-- to do
|   DSCH-TFS,
|   FDD-DL-ChannelisationCodeNumber,
|   FDD-S-CCPCH-Offset,
|   FDD-TPC-DownlinkStepSize,
|   FrameHandlingPriority,
|   FrameOffset,
| GapPeriod,

```



~~GapPositionMode,~~  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
~~PD,~~  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
~~PowerControlMode,~~  
PowerOffset,  
~~PowerResumeMode,~~  
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,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
~~ScramblingCodeChange,~~

```

ScramblingCodeWordNumber,
SecondaryCCPCH-SlotFormat,
S-FieldLength,
SFN,
ShutdownTimer,
SIB-DeletionIndicator,
SIB-Originator,
SSDT-Cell-Identity,
SSDT-CellID-Length,
SSDT-Indication,
STTD-Indicator,
SSDT-SupportIndicator,
SyncCase,
T-Cell,
TDD-ChannelisationCode,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TGD,
TGL,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,
TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
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-AICH-InformationItem-AuditRsp,  
 id-AICH-InformationItem-ResourceStatusInd,  
 id-AICH-ParametersList-CTCH-ReconfRqstFDD,  
 id-AllRLItem-DM-Rprt,  
 id-AllRLItem-DM-Rsp,  
 id-AllRLItem-Set-DM-Rprt,  
 id-AllRLItem-Set-DM-Rsp,  
 id-BCH-InformationItem-AuditRsp,  
 id-BCH-InformationItem-ResourceStatusInd,  
 id-BCCH-ModificationTime,  
 id-BlockingPriorityIndicator,  
 id-Case1Item-Cell-SetupRqstTDD,  
 id-Case2Item-Cell-SetupRqstTDD,  
 id-Cause,  
 id-CCP-InformationItem-AuditRsp,  
 id-CCP-InformationList-AuditRsp,  
 id-CCP-InformationItem-ResourceStatusInd,  
 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-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-SetupRqstFDD,  
 id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
 id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
 id-CommonTransportChannelType-CTCH-SetupRsp,  
 id-CommunicationControlPortID,  
~~id-CM-PatternInformationItem-CompressedModePrep,~~  
~~id-CM-PatternInformationList-CompressedModePrep,~~  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,  
 id-ConfigurationGenerationID,  
 id-CRNC-CommunicationContextID,  
 id-CriticalityDiagnostics,  
 id-DCH-AddListIE-RL-ReconfReady,

id-DCH-AddListIE-RL-ReconfRsp,  
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-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-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-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-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-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
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-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD,  
id-NonCombiningOrIENotPrsentItem-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-ReconfRqstFDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
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-ReconfRqstFDD,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-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-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-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-ReconfigurationFailureList-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-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-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-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-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-InformationItem-RL-ReconfRqstTDD,  
 id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
 id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
 id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
 id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
 id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
 id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
 id-UL-DPCH-Information-RL-ReconfPrepFDD,  
 id-UL-DPCH-Information-RL-ReconfRqstFDD,  
 id-UL-DPCH-Information-RL-SetupRqstFDD,  
 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-SetupRspTDD,  
 id-USCH-InformationList-RL-SetupRqstTDD,



```

id-USCH-ModifyListIE-RL-ReconfReady,
id-USCH-ModifyListIE-RL-ReconfRsp,
id-USCH-SetupListIE-RL-ReconfReady,
id-USCH-SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,
maxNrOfCodes,
maxNrOfCMpatterns,
maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPRACHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSs,
maxNrOfUSCHs,
maxFACHCell,
maxRACHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxLocalCellinNodeB,
maxSF,
maxIB,
maxIBSEG
FROM NBAP-Constants;

. . . Partly omitted . . .

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

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

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

```

|  |                    |  |          |
|--|--------------------|--|----------|
| { ID id-CRNC-CommunicationContextID<br>mandatory }                           | CRITICALITY reject | TYPE CRNC-CommunicationContextID                   | PRESENCE |
| { ID id-UL-DPCH-Information-RL-SetupRqstFDD<br>mandatory }                   | CRITICALITY reject | TYPE UL-DPCH-Information-RL-SetupRqstFDD           | PRESENCE |
| { ID id-DL-DPCH-Information-RL-SetupRqstFDD<br>mandatory }                   | CRITICALITY reject | TYPE DL-DPCH-Information-RL-SetupRqstFDD           | PRESENCE |
| { ID id-DCH-InformationList-RL-SetupRqstFDD<br>PRESENCE mandatory }          | CRITICALITY reject | TYPE DCH-InformationList-RL-SetupRqstFDD           |          |
| { ID id-DSCH-InformationList-RL-SetupRqstFDD<br>PRESENCE optional }          | CRITICALITY reject | TYPE DSCH-InformationList-RL-SetupRqstFDD          |          |
| { ID id-RL-InformationList-RL-SetupRqstFDD<br>PRESENCE mandatory }           | CRITICALITY notify | TYPE RL-InformationList-RL-SetupRqstFDD            |          |
| { ID id-Transmission-Gap-Pattern-Sequence-Information<br>PRESENCE optional } | CRITICALITY reject | TYPE Transmission-Gap-Pattern-Sequence-Information |          |
| { ID id-Active-Pattern-Sequence-Information<br>optional },                   | CRITICALITY reject | TYPE Active-Pattern-Sequence-Information           | PRESENCE |
| ...  |                    |  |          |

```
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,
iE-Extensions              ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
p01-ForTFCL-Bits          PowerOffset,
p02-ForTPC-Bits           PowerOffset,
p03-ForPilotBits          PowerOffset,
iE-Extensions             ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
dCH-ID                    DCH-ID,
dCH-CombinationIndication DCH-CombinationInd          OPTIONAL,
limitedPowerIncrease       LimitedPowerIncrease,
ul-TransportFormatSet     TransportFormatSet,
dl-TransportFormatSet     TransportFormatSet,
frameHandlingPriority      FrameHandlingPriority,
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode                UL-FP-Mode,
qE-Selector               QE-Selector,
toAWS                     ToAWS,
toAWE                     ToAWE,
iE-Extensions             ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

DCH-InformationItem-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,
frameOffset   FrameOffset,
chipOffset    ChipOffset,
propagationDelay PropagationDelay      OPTIONAL,
diversityControlField DiversityControlField  OPTIONAL,
-- This IE is present only if the RL is not the first one in the RL Information
dl-CodeInformationList DL-CodeInformationList-RL-SetupRqstFDD,
initialDL-transmissionPower DL-Power,
maximumDL-power DL-Power,
minimumDL-power DL-Power,
sSDT-Cell-Identity SSDT-Cell-Identity      OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator  OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions  ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRqstFDD-ExtIEs} }   OPTIONAL,
...
}

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

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

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

```

```
DL-CodeInformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
}
```

. . . Partly omitted . . .

```
-- *****
```

```
--
```

```
-- RADIO LINK ADDITION REQUEST FDD
```

```
--
```

```
-- *****
```

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

```
RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID          CRITICALITY reject          TYPE NodeB-CommunicationContextID          PRESENCE
    mandatory } |
  { ID id-RL-InformationList-RL-AdditionRqstFDD          CRITICALITY notify          TYPE RL-InformationList-RL-AdditionRqstFDD
    PRESENCE mandatory } |
  { ID id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD          CRITICALITY reject          TYPE Compressed-Mode-Deactivation-Flag-RL-
    AdditionRqstFDD          PRESENCE optional },
  ...
}
```

```
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},
  ...
}
```

```
RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  c-ID          C-ID,
  frameOffset   FrameOffset,
  chipOffset    ChipOffset,
  diversityControlField DiversityControlField,
  dl-CodeInformationList DL-CodeInformationList-RL-AdditionRqstFDD,
  initialDL-TransmissionPower DL-Power          OPTIONAL,
  maximumDL-Power DL-Power          OPTIONAL,
  minimumDL-Power DL-Power          OPTIONAL,
  sSDT-CellIdentity SSDT-Cell-Identity          OPTIONAL,
```

```

    transmitDiversityIndicator          TransmitDiversityIndicator          OPTIONAL,
    -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions                       ProtocolExtensionContainer { { RL-InformationItem-RL-AdditionRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

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

```

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

```

```

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

```

. . . Partly omitted . . .

```

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

```

```

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

```

```

RadioLinkReconfigurationPrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY reject          TYPE NodeB-CommunicationContextID          PRESENCE
      mandatory } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD   CRITICALITY reject          TYPE UL-DPCH-Information-RL-ReconfPrepFDD   PRESENCE
      optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD   CRITICALITY reject          TYPE DL-DPCH-Information-RL-ReconfPrepFDD   PRESENCE
      optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD        CRITICALITY reject          TYPE DCH-ModifyList-RL-ReconfPrepFDD        PRESENCE
      optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD           CRITICALITY reject          TYPE DCH-AddList-RL-ReconfPrepFDD           PRESENCE
      optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD        CRITICALITY reject          TYPE DCH-DeleteList-RL-ReconfPrepFDD        PRESENCE
      optional } |
}

```

```

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

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

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
ul-ScramblingCode          UL-ScramblingCode          OPTIONAL,
ul-SIR-Target              UL-SIR                     OPTIONAL,
minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
maxNrOfUL-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL,
-- This IE is present only if minUL-ChannelisationCodeLength equals to 4
ul-PunctureLimit          PunctureLimit              OPTIONAL,
tFCS                      TFCS                      OPTIONAL,
ul-DPCH-SlotFormat        UL-DPCH-SlotFormat        OPTIONAL,
sSDT-CellIDLength         SSDT-CellIDLength         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,
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 {
    dCH-ID                               DCH-ID,
    ul-TransportFormatSet                 TransportFormatSet           OPTIONAL,
    dl-TransportFormatSet                 TransportFormatSet           OPTIONAL,
    frameHandlingPriority                 FrameHandlingPriority        OPTIONAL,
    ul-FP-Mode                            UL-FP-Mode                  OPTIONAL,
    toAWS                                 ToAWS                       OPTIONAL,
    toAWE                                 ToAWE                       OPTIONAL,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
}
```

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

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

```
DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                               DCH-ID,
    dCH-CombinationIndication             DCH-CombinationInd          OPTIONAL,
    limitedPowerIncrease                  LimitedPowerIncrease,
    ul-TransportFormatSet                 TransportFormatSet,
    dl-TransportFormatSet                 TransportFormatSet,
    frameHandlingPriority                 FrameHandlingPriority,
    payloadCRC-PresenceIndicator          PayloadCRC-PresenceIndicator,
    ul-FP-Mode                            UL-FP-Mode,
    qE-Selector                           QE-Selector,
    toAWS                                 ToAWS,
    toAWE                                 ToAWE,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
}
```

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

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD

```
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                               DCH-ID,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
}
```

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

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



```

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

. . . Partly omitted . . .

-- *****
--
-- 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<br>mandatory }                                   | CRITICALITY | reject | TYPE | NodeB-CommunicationContextID                         | PRESENCE |
| { ID id-UL-DPCH-Information-RL-ReconfRqstFDD<br>optional }                            | CRITICALITY | reject | TYPE | UL-DPCH-Information-RL-ReconfRqstFDD                 | PRESENCE |
| { ID id-DL-DPCH-Information-RL-ReconfRqstFDD<br>optional }                            | CRITICALITY | reject | TYPE | DL-DPCH-Information-RL-ReconfRqstFDD                 | PRESENCE |
| { ID id-DCH-ModifyList-RL-ReconfRqstFDD<br>optional }                                 | CRITICALITY | reject | TYPE | DCH-ModifyList-RL-ReconfRqstFDD                      | PRESENCE |
| { ID id-DCH-AddList-RL-ReconfRqstFDD<br>optional }                                    | CRITICALITY | reject | TYPE | DCH-AddList-RL-ReconfRqstFDD                         | PRESENCE |
| { ID id-DCH-DeleteList-RL-ReconfRqstFDD<br>optional }                                 | CRITICALITY | reject | TYPE | DCH-DeleteList-RL-ReconfRqstFDD                      | PRESENCE |
| { ID id-DSCH-ModifyList-RL-ReconfRqstFDD<br>PRESENCE optional }                       | CRITICALITY | reject | TYPE | DSCH-ModifyList-RL-ReconfRqstFDD                     |          |
| { ID id-DSCH-AddList-RL-ReconfRqstFDD<br>optional }                                   | CRITICALITY | reject | TYPE | DSCH-AddList-RL-ReconfRqstFDD                        | PRESENCE |
| { ID id-DSCH-DeleteList-RL-ReconfRqstFDD<br>PRESENCE optional }                       | CRITICALITY | reject | TYPE | DSCH-DeleteList-RL-ReconfRqstFDD                     |          |
| { ID id-RL-InformationList-RL-ReconfRqstFDD<br>optional }                             | CRITICALITY | reject | TYPE | RL-InformationList-RL-ReconfRqstFDD                  | PRESENCE |
| <u>{ ID id-Transmission-Gap-Pattern-Sequence-Information<br/>PRESENCE optional },</u> | CRITICALITY | reject | TYPE | <u>Transmission-Gap-Pattern-Sequence-Information</u> |          |

```

...
}

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

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

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

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
  dl-TFCS                TFCS                OPTIONAL,
  tFCI-SignallingMode    TFCI-SignallingMode    OPTIONAL,
  pDSCH-CodeMapping      PDSCH-CodeMapping     OPTIONAL,
  pDSCH-RL-ID            RL-ID                OPTIONAL,
  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 {
    dCH-ID                               DCH-ID,
    ul-TransportFormatSet                 TransportFormatSet           OPTIONAL,
    dl-TransportFormatSet                 TransportFormatSet           OPTIONAL,
    frameHandlingPriority                 FrameHandlingPriority        OPTIONAL,
    ul-FP-Mode                            UL-FP-Mode                  OPTIONAL,
    toAWS                                 ToAWS                       OPTIONAL,
    toAWE                                 ToAWE                       OPTIONAL,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
```

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

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

```
DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                               DCH-ID,
    dCH-CombinationInd                   DCH-CombinationInd          OPTIONAL,
    limitedPowerIncrease                 LimitedPowerIncrease,
    ul-TransportFormatSet                 TransportFormatSet,
    dl-TransportFormatSet                 TransportFormatSet,
    frameHandlingPriority                 FrameHandlingPriority,
    payloadCRC-PresenceIndicator          PayloadCRC-PresenceIndicator,
    ul-FP-Mode                            UL-FP-Mode,
    qE-Selector                           QE-Selector,
    toAWS                                 ToAWS,
    toAWE                                 ToAWE,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-Add-RL-ReconfRqstFDDItem-ExtIEs } } OPTIONAL,
    ...
}
```

```
DCH-Add-RL-ReconfRqstFDDItem-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 group is 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,
    ...
}

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

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 ::= {
    ...
}

. . . Partly omitted . . .

-- *****
--
-- 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 reject TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
  { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE mandatory },
  ...
}

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

-----
-- *****
-- COMPRESSED MODE PREPARE FDD
-- *****

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

CompressedModePrepare-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
  { ID id-CM-PatternInformationList-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationList-CompressedModePrep PRESENCE mandatory },
  ...
}

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

CM-PatternInformationList-CompressedModePrep ::= SEQUENCE (SIZE (1.. maxNrOfCMpatterns)) OF ProtocolIE-Container {{ CM-PatternInformationItemIE-CompressedModePrep }}

CM-PatternInformationItemIE-CompressedModePrep NBAP-PROTOCOL-IES ::= {
  { ID id-CM-PatternInformationItem-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationItem-CompressedModePrep PRESENCE mandatory },
  ...
}

CM-PatternInformationItem-CompressedModePrep ::= SEQUENCE {
  cFNOffset CFNOffset,
  tGPI GapPeriod,
}

```



```

tGP2          GapPeriod          OPTIONAL,
tGL           TGL,
tGD           TGD,
pD           PD,
ul-DL-CompressedModeSelection  UL-DL-CompressedModeSelection,
compressedModeMethod          CompressedModeMethod,
gapPositionMode                GapPositionMode,
sN          TimeSlot          OPTIONAL,
  This IE is present if Gap position mode = 'flexible position'
dl-FrameType          DL-FrameType,
scramblingCodeChange  ScramblingCodeChange  OPTIONAL,
  This IE is present if Compressed mode method = 'SF/2'
powerControlMode      PowerControlMode,
powerResumeMode       PowerResumeMode,
ul-DeltaSIR           UL-DeltaSIR,
ul-DeltaSIR-after     UL-DeltaSIR-after,
IE-Extensions         ProtocolExtensionContainer { { CM-PatternInformationItem-CompressedModePrep-ExtIEs } } OPTIONAL,
...
}

CM-PatternInformationItem-CompressedModePrep-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
*****
-- COMPRESSED-MODE-READY-FDD
--
*****

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

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

CompressedModeReady-Extensions-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
*****
-- COMPRESSED-MODE-COMMIT-FDD
--
*****

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

```

```

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

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

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

*****
---
--- COMPRESSED MODE FAILURE FDD
---
*****

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

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

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

*****
---
--- COMPRESSED MODE CANCEL FDD
---
*****

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

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

```

```

}
CompressedModeCancel_Extensions_NBAP_PROTOCOL_EXTENSION ::= {
...
}

```

. . . Partly omitted . . .

### 9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC-1,
    maxNrOfTFs,
    maxTTL-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCodeGroups,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxCTFC-DCH-1,
    maxCTFC-DSCH-1,
    maxNrOfSF,
    maxTGPS,

FROM NBAP-Constants

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

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

```

```
-- =====
-- A
-- =====
```

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

```
ActivationCFN ::= INTEGR (0..255)
```

```
Active-Pattern-Sequence-Information ::= SEQUENCE {
    activationCMConfigurationChangeCFN ActivationCFN,
    active-Pattern-Sequence-Informationtransmission-Gap-Pattern-Sequence-Status-List Active-Pattern-Sequence-InformationTransmission-Gap-
Pattern-Sequence-Status-List,
    iE-Extensions ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}
```

```
Active-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
Active-Pattern-Sequence-InformationTransmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
SEQUENCE {
    tGPSI TGPSI,
    tGPRC TGPRC,
    tGCFN TGCFN,
    iE-Extensions ProtocolExtensionContainer { {Active-Pattern-Sequence-InformationTransmission-Gap_Pattern-Sequence-Status-List-ExtIEs} }
OPTIONAL,
    ...
}
```

```
Active-Pattern-Sequence-InformationTransmission-Gap_Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete,
    ...
}
```

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

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

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

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..2047)
-- Time = BCCH-ModificationTime * 2
-- Range 0 to 4094, step 2
-- All even SFN values 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-ActivatedOrAlocated,
    nodeB-Resources-unavailable,
    insufficient-physical-channel-resources,
    measurement-not-supported-for-the-object,
    macrodiversity-combining-not-possible,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    sIB-Origination-in-Node-B-not-Supported,
    unspecified,
    priority-transport-channel-established,
    invalid-CM-settings,
    ...
}

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

```

CCTrCH-ID ::= INTEGER (0..15)

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

CFNOffset ::= INTEGER (0..255)

ChipOffset ::= INTEGER (0..38399)
-- Unit Chip

C-ID ::= INTEGER (0..65535)

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
    SEQUENCE {
        dl-Cost      INTEGER (0..65535),
        ul-Cost      INTEGER (0..65536)
    }

CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iscp,
    ...
}

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,
    ...
}

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD ::= ENUMERATED {
    on,
    off
}
-- on=deactivate

CompressedModeMethod ::= ENUMERATED {
    none,
    puncturing,
    half-SF,
    higher-Layer-Scheduling,

```

```

}
}
-- none = restore the normal mode

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

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-CombinationInd ::= INTEGER (0..255)

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

DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
    SEQUENCE {
        dl-Cost    INTEGER (0..65535),
        ul-Cost    INTEGER (0..65536)
    }
}

DedicatedMeasurementObjectType ::= ENUMERATED {
    r1,
    r1s,

```



```
    all-rl,  
    all-rls,  
    ...  
}  
  
DedicatedMeasurementType ::= ENUMERATED {  
    sir,  
    sir-error,  
    transmitted-code-power,  
    rscp,  
    ...  
}  
  
DedicatedMeasurementValue ::= CHOICE {  
    sIR-Value                SIR-Value,  
    sIR-ErrorValue          SIR-Error-Value,  
    transmittedCodePowerValue Transmitted-Code-Power-Value,  
    rSCP                    RSCP-Value,  
    ...  
}  
  
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

DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --

Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling,
    none
}

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 [TS 25.211] --

FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    ...
}

FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lower priority, 15=higher priority --

FrameOffset ::= INTEGER (0..255)

-- =====

```

```

-- G
-- =====

GapLength ::= INTEGER (1..14)

GapDuration ::= INTEGER (1..144)

GapPeriod ::= INTEGER (0..255)
-- Unit Frame

GapPositionMode ::= ENUMERATED {
-- fixed,
-- flexible,
-- ...
}

-- =====
-- H
-- =====

-- =====
-- I
-- =====

IB-SG-DATA ::= BIT STRING

IB-SG-POS ::= INTEGER (0..2064)
-- 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..50)
-- Unit dBm, Range 0dBm .. 50dBm, Step +1dB

MaximumTransmissionPower ::= INTEGER(0..50)
-- Unit dB, Range 0dB .. 50dB, Step +1dB

MaxNrOfUL-DPDCHs ::= INTEGER (1..6)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- 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
-- =====

NodeB-CommunicationContextID ::= INTEGER (0..1048575)

-- =====
-- O
-- =====

-- =====
-- P
-- =====

PagingIndicatorLength ::= INTEGER (2| 4| 8)

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
```

~~PD ::= INTEGER(0..2047, ...)~~

```

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
}

PowerControlMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range 0dB .. +6dB, Step +0.25dB

PowerResumeMode ::= ENUMERATED {
    v0,

```

```

    v1,
    ...
}

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 [25.213] --

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-DCH,
    non-selected-DCH
}

-- =====
-- 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..15)

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,
    ...
}

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,
    ...
}

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
}

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in 25.225

RSCP-Value-IncrDecrThres ::= INTEGER (0..80)

RSSI-Value ::= INTEGER(0..63)
-- According to mapping in 25.215/25.225

RSSI-Value-IncrDecrThres ::= INTEGER (0..62)

-- =====
-- S
-- =====

ScaledMaxAdjustmentPeriod ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

ScramblingCodeChange ::= ENUMERATED {
code change,
no code change,
...
}

ScramblingCodeWordNumber ::= INTEGER (0..255)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)

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

-- to do, This parameter is present in NBAP tabular but not defined in IE(TS25.433v3.0.0)
SFN ::= INTEGER

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

SIB-DeletionIndicator ::= ENUMERATED {
    noDeletion,

```

```
    deletion,
    ...
}

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 25.215/25.225

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,  
...  
}  
  
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,
    ...
}

```

```

}

TGCFN ::= INTEGER (0..255)

TGD ::= INTEGER (0, 15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

TGPRC ::= INTEGER (0, 1..63)
-- 0 = infinity

TGPSI ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)

TGD ::= INTEGER (0..3839)

TGL ::= INTEGER (3| 4| 7| 10| 14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

TimeSlot-ISCP-Value ::= INTEGER (0..81)
-- According to mapping in 25.225

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,
tGCFN          TGCFN,
    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 25.215/25.225

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

TransmitDiversityIndicator ::= ENUMERATED {
active,
inactive,
...
}

TFCS ::= SEQUENCE {
dSCH                CHOICE {
no-Split-in-TFCI    TFCS-TFCSList,
split-in-TFCI       SEQUENCE {
transportFormatCombination-DCH TFCS-DCHList,
signallingMethod        CHOICE {
tFCI-Range             TFCS-TFC-MapingOnDSCHList,
explicit                TFCS-TFC-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 (1..maxCTFC-1)

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
    SEQUENCE {
        cTFC              TFCS-CTFC-DCH,
        iE-Extensions     ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } }      OPTIONAL,
        ...
    }

TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-CTFC-DCH ::= INTEGER (0..maxCTFC-DCH-1)

TFCS-TFC-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
    SEQUENCE {
        maxTFCI-field2-Value      TFCS-MaxTFCI-field2-Value,
        cTFC-DSCH                  TFCS-CTFC-DSCH,
        iE-Extensions              ProtocolExtensionContainer { { TFCS-TFC-MappingOnDSCHList-ExtIEs } }      OPTIONAL,
        ...
    }

TFCS-TFC-MappingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..511)

TFCS-CTFC-DSCH ::= INTEGER (0..maxCTFC-DSCH-1)

TFCS-TFC-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
    SEQUENCE {

```

```

        cTFC-DSCH          TFCS-CTFC-DSCH,
        iE-Extensions     ProtocolExtensionContainer { { TFCS-TFC-DSCHList-ExtIEs } } OPTIONAL,
    ...
}

TFCS-TFC-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 semistatic parameter, otherwise it is absent
...
}

TransportFormatSet-ModeSSP ::= CHOICE {
tdd                TransportFormatSet-SecondInterleavingMode,
...
}

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 (1..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-CompressedModeSelection ::= ENUMERATED {
    ul-only,
    dl-only,
    both,
    ...
}

UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}

Uplink-Compressed-Mode-Method ::= ENUMERATED {
puncturing,
    sFdiv2,
    higher-layer-scheduling,
none
}

UL-DeltaSIR ::= INTEGER (-60..100)
-- UL-DeltaSIR = DeltaSIR * 10
-- Unit dB, Range 6dB .. 10dB, Step 0.1dB

UL-DeltaSIR-after ::= INTEGER (-60..100)
-- UL-DeltaSIR = DeltaSIR * 10
-- Unit dB, Range 6dB .. 10dB, Step 0.1dB

```

```

UL-DPCCH-SlotFormat ::= INTEGER (0..5)

UL-SIR ::= INTEGER (-82..173)
-- According to mapping in 25.427

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-compressedModeCancellation  INTEGER ::= 13
id-compressedModeCommandIt  INTEGER ::= 14
id-compressedModePreparation  INTEGER ::= 15
id-dedicatedMeasurementFailure  INTEGER ::= 16
id-dedicatedMeasurementInitiation  INTEGER ::= 17
id-dedicatedMeasurementReport   INTEGER ::= 18
id-dedicatedMeasurementTermination  INTEGER ::= 19
id-downlinkPowerControl  INTEGER ::= 20
id-errorIndication      INTEGER ::= 21
id-physicalSharedChannelReconfiguration  INTEGER ::= 37
id-privateMessage       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

-- *****
--
-- Extension constants
--
-- *****

maxPrivateIEs           INTEGER ::= 65535
maxProtocolExtensions   INTEGER ::= 65535

```

```

maxProtocolIEs                INTEGER ::= 65535

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

maxNrOfCodes                   INTEGER ::= 10
maxNrOfCmpatterns              INTEGER ::= 8
maxNrOfDLCodes                 INTEGER ::= 10
maxNrOfErrors                   INTEGER ::= 10
maxNrOfTFCs                     INTEGER ::= 10
maxNrOfTFCs                     INTEGER ::= 10
maxNrOfRLLs                     INTEGER ::= 10
maxNrOfRLLSets                 INTEGER ::= 10
maxNrOfDPCHs                   INTEGER ::= 10
maxNrOfSCCPCHs                 INTEGER ::= 10
maxNrOfPRACHs                   INTEGER ::= 10
maxNrOfDCHs                     INTEGER ::= 10
maxNrOfDSCHs                     INTEGER ::= 10
maxNrOfFACHs                     INTEGER ::= 10
maxNrOfCCTrCHs                 INTEGER ::= 10
maxNrOfPDSCHs                   INTEGER ::= 10
maxNrOfPUSCHs                   INTEGER ::= 10
maxNrOfPDSCHSets               INTEGER ::= 10
maxNrOfPUSCHSets               INTEGER ::= 10
maxNrOfULTSs                     INTEGER ::= 15
maxNrOfUSCHs                     INTEGER ::= 10
maxSF                           INTEGER ::= 10
maxCellInNodeB                 INTEGER ::= 10
maxCCPinNodeB                   INTEGER ::= 10
maxCTFC-1                       INTEGER ::= 10
maxLocalCellInNodeB            INTEGER ::= 10
maxRACHCell                     INTEGER ::= 10
maxPRACHCell                     INTEGER ::= 10
maxSCCPCHCell                   INTEGER ::= 10
maxSCPICHCell                   INTEGER ::= 10
maxTTI-count                     INTEGER ::= 10
maxIBSEG                         INTEGER ::= 10
maxIB                             INTEGER ::= 10
maxFACHCell                     INTEGER ::= 10
maxRateMatching                 INTEGER ::= 10
maxCodeNrComp-1                 INTEGER ::= 10
maxNrOfCodeGroups               INTEGER ::= 10
maxNrOfTFCIGroups               INTEGER ::= 10
maxNrOfTFCI1Combs               INTEGER ::= 10
maxNrOfTFCI2Combs               INTEGER ::= 10
maxCTFC-DCH-1                   INTEGER ::= 10
maxCTFC-DSCH-1                 INTEGER ::= 10
maxNrOfSF                       INTEGER ::= 8

-- *****

```

```
--
-- IEs
--
-- *****
```

|  |                           |
|--|---------------------------|
| <u>id-Active-Pattern-Sequence-Information</u>                  | INTEGER ::= 0             |
| id-AICH-InformationItem-AuditRsp                               | INTEGER ::= 0             |
| id-AICH-InformationItem-ResourceStatusInd                      | INTEGER ::= 1             |
| id-AICH-ParametersList-CTCH-ReconfRqstFDD                      | INTEGER ::= 2             |
| id-AllRLItem-DM-Rprt   | INTEGER ::= 3             |
| id-AllRLItem-DM-Rsp  | INTEGER ::= 4             |
| id-AllRLItem-Set-DM-Rprt                                       | INTEGER ::= 5             |
| id-AllRLItem-Set-DM-Rsp  | INTEGER ::= 6             |
| 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-CommonTransportChannelType-CTCH-SetupRsp                    | INTEGER ::= 39            |
| id-CommunicationControlPortID                                  | INTEGER ::= 40            |
| <del>id-CM-PatternInformationItem-CompressedModePrep</del>     | <del>INTEGER ::= 41</del> |
| <del>id-CM-PatternInformationList-CompressedModePrep</del>     | <del>INTEGER ::= 42</del> |
| <u>id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD</u> | INTEGER ::= xx            |
| id-ConfigurationGenerationID                                   | INTEGER ::= 43            |
| id-CRNC-CommunicationContextID                                 | INTEGER ::= 44            |
| id-CriticalityDiagnostics                                      | INTEGER ::= 45            |

|   |                |
|---|----------------|
| id-DCH-AddListIE-RL-ReconfReady                 | INTEGER ::= 46 |
| id-DCH-AddListIE-RL-ReconfRsp                   | INTEGER ::= 47 |
| 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-ModifyListIE-RL-ReconfReady              | INTEGER ::= 60 |
| id-DCH-ModifyListIE-RL-ReconfRsp                | INTEGER ::= 61 |
| 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               | INTEGER ::= 66 |
| 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-ReconfRqstTDD   | INTEGER ::= 71 |
| id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD    | INTEGER ::= 72 |
| id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD | INTEGER ::= 73 |
| id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD   | INTEGER ::= 74 |
| id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD   | INTEGER ::= 75 |
| 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-InformationListIE-RL-ReconfPrepTDD   | INTEGER ::= 80 |
| 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-ModifyListIE-RL-ReconfReady                 | INTEGER ::= 110 |
| id-DSCH-ModifyListIE-RL-ReconfRsp                   | INTEGER ::= 111 |
| id-DSCH-ModifyList-RL-ReconfPrepFDD                 | INTEGER ::= 112 |
| id-DSCH-ModifyList-RL-ReconfRqstFDD                 | INTEGER ::= 113 |
| id-DSCH-SetupListIE-RL-ReconfReady                  | INTEGER ::= 114 |
| id-DSCH-SetupListIE-RL-ReconfRsp                    | INTEGER ::= 115 |
| id-FACH-InformationItem-AuditRsp                    | INTEGER ::= 116 |
| id-FACH-InformationItem-ResourceStatusInd           | INTEGER ::= 117 |
| id-FACHItem-CTCH-SetupRsp                           | INTEGER ::= 118 |
| id-FACH-ParametersList-CTCH-ReconfRqstFDD           | INTEGER ::= 119 |
| 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-MaxAdjustmentPeriod                              | 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-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD | INTEGER ::= 141 |
| id-NonCombiningOrIENotPrsentItem-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 |



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|   |                 |
|---|-----------------|
| id-PCH-InformationItem-ResourceStatusInd          | INTEGER ::= 152 |
| id-PCHItem-CTCH-SetupRsp                          | INTEGER ::= 153 |
| id-PCH-Parameters-CTCH-ReconfRqstFDD              | INTEGER ::= 154 |
| 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-ReconfRqstFDD             | INTEGER ::= 167 |
| 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-PRACH-ParametersList-CTCH-ReconfRqstFDD        | INTEGER ::= 174 |
| 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 |

201

|                 |
|-----------------|
| INTEGER ::= 152 |
| INTEGER ::= 153 |
| INTEGER ::= 154 |
| INTEGER ::= 155 |
| INTEGER ::= 156 |
| INTEGER ::= 157 |
| INTEGER ::= 158 |
| INTEGER ::= 159 |
| INTEGER ::= 160 |
| INTEGER ::= 161 |
| INTEGER ::= 162 |
| INTEGER ::= 163 |
| INTEGER ::= 164 |
| INTEGER ::= 165 |
| INTEGER ::= 166 |
| INTEGER ::= 167 |
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| INTEGER ::= 194 |
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| INTEGER ::= 197 |
| INTEGER ::= 198 |
| INTEGER ::= 199 |
| INTEGER ::= 200 |
| INTEGER ::= 201 |
| INTEGER ::= 202 |
| INTEGER ::= 203 |
| INTEGER ::= 204 |

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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-ReconfigurationFailureList-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-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-ReconfRqstTDD

**202**

INTEGER ::= 205  
INTEGER ::= 206  
INTEGER ::= 207  
INTEGER ::= 208  
INTEGER ::= 209  
INTEGER ::= 210  
INTEGER ::= 211  
INTEGER ::= 212  
INTEGER ::= 213  
INTEGER ::= 214  
INTEGER ::= 215  
INTEGER ::= 216  
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INTEGER ::= 252  
INTEGER ::= 253  
INTEGER ::= 254  
INTEGER ::= 255  
INTEGER ::= 256  
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        |
| <u>id-Transmission-Gap-Pattern-Sequence-Information</u>      | <u>INTEGER ::= xxx</u> |
| id-UARFCNforNt   | INTEGER ::= 280        |
| id-UARFCNforNd   | INTEGER ::= 281        |
| id-UARFCNforNu   | INTEGER ::= 282        |
| id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD                | INTEGER ::= 283        |
| id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD                 | INTEGER ::= 284        |
| id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD              | INTEGER ::= 285        |
| id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD                | INTEGER ::= 286        |
| id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD                | INTEGER ::= 287        |
| 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-InformationListIE-RL-ReconfPrepTDD                | INTEGER ::= 292        |
| 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        |

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id-USCH-InformationList-RL-SetupRqstTDD  
id-USCH-ModifyListIE-RL-ReconfReady  
id-USCH-ModifyListIE-RL-ReconfRsp  
id-USCH-SetupListIE-RL-ReconfReady  
id-USCH-SetupListIE-RL-ReconfRsp

END

**204**

INTEGER ::= 310  
INTEGER ::= 311  
INTEGER ::= 312  
INTEGER ::= 313  
INTEGER ::= 314

## 9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Packed Encoding Rules (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

**3GPP TSG-RAN WG3 Meeting #13  
Oahu, USA, 22-26 May 2000**

**Document R3-001657**

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

|   |  |  |   |
|---|--|--|---|
| <b>CHANGE REQUEST</b>   |  | Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly. |   |
| <b>25.433</b>   | <b>CR</b>  | <b>164</b>   | Current Version: <b>3.1.0</b>   |
| GSM (AA.BB) or 3G (AA.BBB) specification number ↑                                     |  | ↑ CR number as allocated by MCC support team   |   |
| For submission to: <b>TSG RAN#8</b><br><i>list expected approval meeting # here</i> ↑ | for approval <input checked="" type="checkbox"/> | for information <input type="checkbox"/>   | strategic <input type="checkbox"/> (for SMG use only)<br>non-strategic <input type="checkbox"/> |

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

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

**Source:** R-WG3 **Date:** June 20, 2000

**Subject:** NBAP ASN.1 merge files

**Work item:**

|  |  |                 |  |
|--|--|-----------------|--|
| <b>Category:</b>                                     | 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"/>            |
| <i>(only one category shall be marked with an X)</i> | 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:** ASN.1 merge of all WG3 agreed CRs.

**Clauses affected:**

**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:**



help.doc



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

```

--9.3.2 PDU Description for NBAP
-- *****
--
-- Elementary Procedure definitions
--
-- *****

NBAP-PDU-Discriptions -- { object identifier to be allocated }--
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,
-- R3-001609,CR146r1
-- CompressedModePrepare,
-- CompressedModeReady,
CompressedModeCommand,
-- CompressedModeFailure,
-- CompressedModeCancel,
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,
-- R3-001609,CR146r1
id-compressedModeCancellation,
id-compressedModeCommandIt,
id-compressedModePreparation,
id-dedicatedMeasurementFailure,
id-dedicatedMeasurementInitiation,
id-dedicatedMeasurementReport,
id-dedicatedMeasurementTermination,
id-downlinkPowerControl,
-- R3-001320,CR113
id-errorIndicationForDedicated,
id-errorIndicationForCommon,
id-physicalSharedChannelReconfiguration,
-- R3-001320,CR113
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
  -- R3-001609, CR146r1
  compressedModePreparation
  ...
}

```

```

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
    resourceStatusIndication
    auditRequired
    commonMeasurementReport
    commonMeasurementTermination
    commonMeasurementFailure
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
    radioLinkFailure
    radioLinkRestoration
    dedicatedMeasurementReport
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
    downlinkPowerControlFDD
    compressedModeCommand
    compressedModeCancellation
    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
}

-- R3-001609,CR146r1

*** CompressedModePreparation (FDD only) ***
compressedModePreparation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE    CompressedModePrepare
  SUCCESSFUL OUTCOME    CompressedModeReady
  UNSUCCESSFUL OUTCOME  CompressedModeFailure
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID          { procedureCode id-compressedModePreparation, ddMode fdd }
  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
}

-- R3-001609,CR146r1
-- *** CompressedModeCommand (FDD only) ***
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CompressedModeCommand
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID             { procedureCode id-compressedModeCommand, ddMode fdd }
    CRITICALITY              ignore
}

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

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

-- R3-001320,CR113
-- *** 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

```

```

-- R3-001609,CR146r1
  Active-Pattern-Sequence-Information,
  AddorDeleteIndicator,
  AICH-TransmissionTiming,
-- R3-001604,CR68r10
  APPreambleSignature,
  APSubChannelNumber,
  AvailabilityStatus,
  BCCH-ModificationTime,
  BindingID,
  BlockingPriorityIndicator,
  BlockSTTD-Indicator,
  BurstType,
  Cause,
  CCTrCH-ID,
-- R3-001604,CR68r10
  CDSUBchannelNumbers,
  CellParameterID,
  CFN,
-- R3-001609,CR146r1
CFNOffset,
-- R3-001604,CR68r10
  Channel-Assignment-Indication,
  ChipOffset,
  C-ID,
-- R3-001231,CR88r2
  Closedlooptimingadjustmentmode,
  CommonChannelsCapacityConsumptionLaw,
-- R3-001609,CR146r1
  Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
  CommonMeasurementType,
  CommonMeasurementValue,
  CommonPhysicalChannelID,
  CommonTransportChannelID,
  CommunicationControlPortID,
-- R3-001609,CR146r1
CompressedModeMethod,
  ConfigurationGenerationID,
-- R3-001575,CR107r3
  ConstantValue,
  CriticalityDiagnostics,
-- R3-001604,CR68r10
  CPCH-Allowed-Total-Rate,
  CPCHScramblingCodeNumber,
  CPCH-UL-DPCCH-SlotFormat,
  CRNC-CommunicationContextID,
-- R3-001614,CR133r2
DCH-CombinationInd,
  DCH-ID,
-- R3-001476,CR150r1
DedicatedMeasurementObjectType,
  DedicatedChannelsCapacityConsumptionLaw,
  DedicatedMeasurementType,

```

```

DedicatedMeasurementValue,
D-FieldLength,
DiversityControlField,
DiversityMode,
DL-DPCH-SlotFormat,
-- R3-001609,CR146r1
DL-FrameType,
DL-or-Global-CapacityCredit,
DL-Power,
-- R3-001590,CR96r5
DLPowerAveragingWindowSize,
DL-ScramblingCode,
-- R3-001453,CR159
DL-TimeslotISCP,
-- R3-001489,CR128r1
DL-TPC-Pattern01Count,
DPCH-ID,
DSCH-ID,
-- to do
DSCH-TFS,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
-- R3-001489,CR128r1
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset,
-- R3-001609,CR146r1
GapPeriod,
GapPositionMode,
IB-SG-DATA,
IB-SG-POS,
IB-SG-REP,
IB-Type,
IndicationType,
LimitedPowerIncrease,
Local-Cell-ID,
MaximumDL-PowerCapability,
MaximumTransmissionPower,
-- R3-001604,CR68r10
Max-Number-of-PCPCHes,
MaxNrOfUL-DPDCHs,
MaxPRACH-MidambleShifts,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinSpreadingFactor,
MinUL-ChannelisationCodeLength,
MultiplexingPosition,
-- R3-001604,CR68r10
NEOT,
NFmax,
-- R3-001255,CR89r3

```

```

N-INSYNC-IND,
N-OUTSYNC-IND,
NodeB-CommunicationContextID,
-- R3-001604,CR68r10
NStartMessage,
PagingIndicatorLength,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
-- R3-001604,CR68r10
PCP-Length,
-- R3-001609,CR146r1
PD,
PDSCH-CodeMapping,
PDSCHSet-ID,
PDSCH-ID,
PICH-Mode,
PowerAdjustmentType,
-- R3-001609,CR146r1
PowerControlMode,
PowerOffset,
-- R3-001590,CR96r5
PowerRaiseLimit,
-- R3-001609,CR146r1
PowerResumeMode,
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,
-- R3-001611,CR123r3
ScaledMaxAdjustmentPeriod,
ScaledAdjustmentRatio,
ScaledMaxAdjustmentStep,
-- R3-001609,CR146r1
ScramblingCodeChange,
-- R3-001532,CR136r1
ScramblingCodeWordNumber,
SecondaryCCPCH-SlotFormat,
S-FieldLength,

```



```

SFN,
ShutdownTimer,
--R3-001230,CR87r2
SIB-DeletionIndicator,
SIB-Originator,
SSDT-Cell-Identity,
SSDT-CellID-Length,
SSDT-Indication,
STTD-Indicator,
SSDT-SupportIndicator,
SyncCase,
T-Cell,
-- R3-001255,CR89r3
T-RLFAILURE,
TDD-ChannelisationCode,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
-- R3-001609,CR146r1
TGD,
TGL,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,
-- R3-001609,CR146r1
TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
-- R3-001609,CR146r1
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
UL-DPCCCH-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

-- R3-001609,CR146r1
  id-Active-Pattern-Sequence-Information,
-- R3-001611,CR123r3
  id-AdjustmentRatio,
  id-AICH-InformationItem-AuditRsp,
  id-AICH-InformationItem-ResourceStatusInd,
-- R3-001529,CR138r1
  id-AICH-ParametersList-CTCH-ReconfRqstFDD,
-- R3-001529,CR138r1
  id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
-- R3-001476,CR150r1
  id-AllRLItem-DM-Rqst,
  id-AllRLItem-Set-DM-Rqst,
  id-AllRLItem-DM-Rprt,
  id-AllRLItem-DM-Rsp,
  id-AllRLItem-Set-DM-Rprt,
  id-AllRLItem-Set-DM-Rsp,
-- R3-001604,CR68r10
  id-AP-AICH-InformationItem-AuditRsp,
  id-AP-AICH-InformationItem-ResourceStatusInd,
  id-AP-AICH-ParametersList-CTCH-ReconfRqstFDD,
  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,
-- R3-001450,CR158
  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,
-- R3-001604,CR68r10
  id-CDCA-ICH-InformationItem-AuditRsp,
  id-CDCA-ICH-InformationItem-ResourceStatusInd,
  id-CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD,
  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,
-- R3-001231,CR88r2
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,
-- R3-001529,CR138r1
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,
-- R3-001527,CR137r1
id-CommonTransportChannelType-CTCH-SetupRsp,
id-CommunicationControlPortID,
-- R3-001609,CR146r1
id-CM-PatternInformationItem-CompressedModePrep,
id-CM-PatternInformationList-CompressedModePrep,
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
id-ConfigurationGenerationID,
-- R3-001604,CR68r10
id-CPCH-InformationItem-AuditRsp,
id-CPCH-InformationItem-ResourceStatusInd,
id-CPCHItem-CM-Rprt,
id-CPCHItem-CM-Rqst,
id-CPCHItem-CM-Rsp,
id-CPCHItem-CTCH-SetupRsp,
-- R3-001604,CR68r9r10
id-CPCHListItem-CTCH-ReconfRqstFDD,
id-CPCH-Parameters-CTCH-SetupRsp,
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,
id-CRNC-CommunicationContextID,
id-CriticalityDiagnostics,
-- R3-001204,CR97r1
id-DCH-AddListIE-RL-ReconfReady,
id-DCH-AddListIE-RL-ReconfRsp,
id-DCH-AddList-RL-ReconfPrepFDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-AddList-RL-ReconfRqstFDD,
id-DCH-AddList-RL-ReconfRqstTDD,

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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,
-- R3-001204,CR97r1
id-DCH-InformationResponseListIE-RL-ReconfReady,
id-DCH-InformationResponseListIE-RL-ReconfRsp,
id-DCH-InformationResponseItem-RL-SetupRspTDD,
id-DCH-InformationResponseListIE-RL-SetupRspTDD,
-- R3-001204,CR97r1
id-DCH-ModifyListIE-RL-ReconfReady,
id-DCH-ModifyListIE-RL-ReconfRsp,
id-DCH-ModifyList-RL-ReconfPrepFDD,
id-DCH-ModifyList-RL-ReconfPrepTDD,
id-DCH-ModifyList-RL-ReconfRqstFDD,
id-DCH-ModifyList-RL-ReconfRqstTDD,
-- R3-001476,CR150r1
id-DedicatedMeasurementObjectType,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
-- R3-001350,CR103r1
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-ReconfRqstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,
-- R3-001350,CR103r1
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
-- R3-001350,CR103r1
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,
-- R3-001350,CR103r1
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,
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,

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id-DL-ReferencePowerInformationItem-DL-PC-Rqst,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rqst,
-- R3-001489,CR128r1
  id-DL-TPC-Pattern01Count,
-- R3-001575,CR107r3
  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,
-- R3-001204,CR97r1
  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,
-- R3-001204,CR97r1
id-DSCH-ModifyListIE-RL-ReconfReady,
id-DSCH-ModifyListIE-RL-ReconfRsp,
id-DSCH-ModifyList-RL-ReconfPrepFDD,
id-DSCH-ModifyList-RL-ReconfRqstFDD,
-- R3-001204,CR97r1
id-DSCH-SetupListIE-RL-ReconfReady,
id-DSCH-SetupListIE-RL-ReconfRsp,
id-FACH-InformationItem-AuditRsp,
id-FACH-InformationItem-ResourceStatusInd,
id-FACHItem-CTCH-SetupRsp,
-- R3-001529,CR138r1
id-FACH-ParametersList-CTCH-ReconfRqstFDD,
id-FACH-ParametersList-CTCH-ReconfRqstTDD,
-- R3-001527,CR137r1
  id-FACH-ParametersList-CTCH-SetupRsp,
-- R3-001529,CR138r1
  id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,

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-- R3-001450,CR158
  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,
-- R3-001590,CR96r5
  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,
-- R3-001611,CR123r3
  id-MaxAdjustmentPeriod,
  id-MaxAdjustmentStep,
  id-MaximumTransmissionPower,
-- R3-001640,CR149r2
  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,
-- R3-001497,CR124r1
  id-NonCombiningOrFirstRLIENotPresentItem-RL-SetupFailureFDD,
  id-NonCombiningOrFirstRLIENotPresentItem-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,
-- R3-001529,CR138r1
  id-PCH-Parameters-CTCH-ReconfRqstFDD,
  id-PCH-Parameters-CTCH-ReconfRqstTDD,
-- R3-001527,CR137r1
  id-PCH-Parameters-CTCH-SetupRsp,
-- R3-001529,CR138r1

```

```

id-PCH-ParametersItem-CTCH-ReconfRqstFDD,
id-PCH-ParametersItem-CTCH-SetupRqstFDD,
id-PCH-ParametersItem-CTCH-SetupRqstTDD,
id-PCH-InformationItem-AuditRsp,
-- R3-001604,CR68r10
id-PCPCH-InformationItem-AuditRsp,
id-PCPCH-InformationItem-ResourceStatusInd,
id-PCPCHItem-CTCH-SetupRqstFDD,
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD,
-- R3-001529,CR138r1
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,
-- R3-001529,CR138r1
id-PICH-Parameters-CTCH-ReconfRqstFDD,
id-PICH-Parameters-CTCH-ReconfRqstTDD,
id-PowerAdjustmentType,
id-PRACH-InformationItem-AuditRsp,
id-PRACH-InformationItem-ResourceStatusInd,
-- R3-001575,CR107r3
id-PRACHConstant,
id-PRACHItem-CTCH-SetupRqstFDD,
id-PRACHItem-CTCH-SetupRqstTDD,
-- R3-001529,CR138r1
id-PRACHListIE-CTCH-ReconfRqstFDD,
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,
-- R3-001529,CR138r1
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,
-- R3-001575,CR107r3
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,

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id-RACHItem-CTCH-SetupRsp,
id-RACHItem-CM-Rprt,
id-RACHItem-CM-Rqst,
id-RACHItem-CM-Rsp,
-- R3-001527,CR137r1
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,
-- R3-001450,CR158
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,
id-RL-ReconfigurationFailureList-RL-ReconfFailure,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-SetItem-DM-Rqst,
id-RL-Set-InformationItem-DM-Rsp,

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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,
-- R3-001450,CR158
  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,
-- R3-001529,CR138r1
  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,
-- R3-001450,CR158
  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,
-- R3-001255,CR89r3
  id-Synchronisation-Configuration-Cell-ReconfRqst,
  id-Synchronisation-Configuration-Cell-SetupRqst,
id-SyncCase,
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,
id-T-Cell,
-- R3-001609,CR146r1
  id-Transmission-Gap-Pattern-Sequence-Information,
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,

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id-TransmissionDiversityApplied,
id-UARFCNforNt,
id-UARFCNforNd,
id-UARFCNforNu,
-- R3-001350,CR103r1
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
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,
-- R3-001350,CR103r1
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
-- R3-001350,CR103r1
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,
-- R3-001350,CR103r1
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,
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,
-- R3-001450,CR158
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,
-- R3-001204,CR97r1
id-USCH-InformationResponseListIE-RL-ReconfReady,
id-USCH-InformationResponseListIE-RL-ReconfRsp,
id-USCH-InformationResponseListIE-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,

```

```

-- R3-001204,CR97r1
id USCH ModifyListIE-RL-ReconfReady,
id USCH ModifyListIE-RL-ReconfRsp,
id USCH SetupListIE-RL-ReconfReady,
id USCH SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,
maxNrOfCodes,
--R3-001609,CR146r1
maxNrOfCmpatterns,
-- R3-001604,CR68r10
maxNrOfCPCHs,
maxNrOfDCHs,
maxNrOfDLCodes,
-- R3-001453,CR159
mMaxNrOfDLTSS,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
-- R3-001604,CR68r10
maxNrOfPCPCHs,
--R3-001127,CR104
maxNrOfPRACHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSs,
maxNrOfUSCHs,
-- R3-001604,CR68r10
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
-- R3-001604,CR68r10
maxNoofLen,
maxRACHCell,
-- R3-001604,CR68r10
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxLocalCellinNodeB,
--R3-001127,CR104
maxNrOfSlotFormatsPRACHmaxSF,
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,
    -- R3-001604,CR68r10
    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,
    -- R3-001585,CR156r2
    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 ::= {
...
}

-- R3-001585,CR156r2
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits      PowerOffset,
    pO3-ForPilotBits      PowerOffset,
    iE-Extensions         ProtocolExtensionContainer { { PowerOffsetInformation-CTCHRL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PowerOffsetInformation-CTCHRL-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, --- R3-000655, CR24r1
    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,
    --- R3-001532, CR136r1
    scramblingCodeWordNumber        ScramblingCodeWordNumber,
    tFCS                             TFCS,
    preambleSignatures              PreambleSignatures,
    allowedSlotFormatInformationList 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 ::= {
    ...
}

-- R3-001127,CR104
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACHmaxSF)) 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 ::= {
    ...
}

```

```

}

-- R3-001604,CR68r10
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,
  pCPCHChannelInformation        PCPCHChannelInformationList-CTCH-SetupRqstFDD,
  vVCAMMapping-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          ASubChannelNumber OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AP-AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    dl-ScramblingCode            DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    aP-AICH-Power                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 {
    cCTrCH-ID          CCTrCH-ID,
    tFCS              TFCS,
    secondaryCCPCH-parameterList  Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
    iE-Extensions    ProtocolExtensionContainer {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}  OPTIONAL,
    ...
}

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

Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD }}

Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  CRITICALITY reject  TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  PRESENCE
      mandatory },
    ...
}

```

```

}

Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    tdd-ChannelisationCode           TDD-ChannelisationCode,
    timeslot                          TimeSlot,
    burstType                         BurstType,
    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 ::= {
-- R3-001527,CR137r1
  { ID id-FACH-ParametersList-CTCH-SetupRsp  CRITICALITY ignorereject  TYPE FACH-ParametersList-CTCH-SetupRsp  PRESENCE optional
  }|
  { ID id-PCH-Parameters-CTCH-SetupRsp  CRITICALITY ignorereject  TYPE PCH-Parameters-CTCH-SetupRsp  PRESENCE optional
  }|
  { ID id-RACH-Parameters-CTCH-SetupRsp  CRITICALITY ignorereject  TYPE RACH-Parameters-CTCH-SetupRsp  PRESENCE optional }|
-- R3-001604,CR68r9r10
  { ID id-CPCH-Parameters-CTCH-SetupRsp  CRITICALITY ignore  TYPE CPCH-Parameters-CTCH-SetupRsp  PRESENCE optional }|
  { ID id-CommonTransportChannelType-CTCH-SetupRsp  CRITICALITY ignore  TYPE CommonTransportChannelType-CTCH-SetupRsp  PRESENCE
  mandatory }|
  { ID id-CriticalityDiagnostics  CRITICALITY ignore  TYPE CriticalityDiagnostics  PRESENCE
  optional },
  ...
}

CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
-- R3-001527,CR137r1

```

```

CommonTransportChannelType-CTCH-SetupRsp ::= SEQUENCE {
    fACH FACH-CTCH-SetupRsp OPTIONAL,
    One of the channels FACH or PCH or both must be present
    pCH PCH-CTCH-SetupRsp OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    rACH RACH-CTCH-SetupRsp,
    iE-Extensions ProtocolExtensionContainer { { CommonTransportChannelType-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

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

FACH-CTCH-SetupRsp ::= ProtocolIE-Container ({ FACHIE-CTCH-SetupRsp })

FACHIE-CTCH-SetupRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FACHItem-CTCH-SetupRsp CRITICALITY ignore TYPE FACHItem-CTCH-SetupRsp PRESENCE mandatory },
    ...
}

FACHItem-CTCH-SetupRsp ::= SEQUENCE {
    fACH-ParametersList-CTCH-SetupRsp FACH-ParametersList-CTCH-SetupRsp OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { FACHItem-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

FACHItem-CTCH-SetupRsp-ExtIEs 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 ::= {
    ...
}

-- R3-001527,CR137r1
PCH-CTCH-SetupRsp ::= ProtocolIE-Container ({ PCHIE-CTCH-SetupRsp })

PCHIE-CTCH-SetupRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PCHItem-CTCH-SetupRsp CRITICALITY ignore TYPE PCHItem-CTCH-SetupRsp PRESENCE mandatory },
    ...
}

```

```

PCHItem-CTCH-SetupRsp ::= SEQUENCE {
  pCH-Parameters-CTCH-SetupRsp PCH-Parameters-CTCH-SetupRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { PCHItem-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
  ...
}

```

```

PCHItem-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-CTCH-SetupRsp ::= ProtocolIE-Container { { RACHIE-CTCH-SetupRsp } }

```

```

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

```

```

RACHItem-CTCH-SetupRsp ::= SEQUENCE {
  rACH-Parameters-CTCH-SetupRsp RACH-Parameters-CTCH-SetupRsp,
  iE-Extensions ProtocolExtensionContainer { { RACHItem-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
  ...
}

```

```

RACHItem-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 ::= {
  ...
}

```

```

-- R3-001652,CR68r10

```

```

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 }|
  -- R3-001529,CR138r1
  { ID      id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD CRITICALITY reject TYPE      CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE
  mandatory },

```

```

{ ID id-FACH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject TYPE FACH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional
}+
{ ID id-PCH-Parameters-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PCH-Parameters-CTCH-ReconfRqstFDD PRESENCE optional }+
{ ID id-PICH-Parameters-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PICH-Parameters-CTCH-ReconfRqstFDD PRESENCE optional
}+
{ ID id-PRACH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional
}+
{ ID id-AICH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AICH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional
},
...
}

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

-- R3-001529,CR138r1
CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
secondary-CCPCH-parameters Secondary-CCPCHList-CTCH-ReconfRqstFDD,
pRACH-parameters PRACHList-CTCHList-ReconfRqstFDD,
-- R3-001604,CR68r9r10
cPCH-parameters CPCHList-CTCH-ReconfRqstFDD,
...
}

-- R3-001529,CR138r1
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 ::= {
    ...
}

-- R3-001529,CR138r1

```

```

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 ::= {
  ...
}

-- R3-001127,CR104
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..maxNrOfPRACHCells)) 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 ::= {
  ...
}

-- R3-001127,CR104
AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfSlotFormatsPRACHmaxSF)) 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 ::= {

```

```

}
...
}
-- R3-001127,CR104
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..maxNrOfPRACHCells)) 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 ::= {
  ...
}
-- R3-001604,CR68r10
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,
-- R3-001604,CR68r10
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 ::= {
    ...
}

-- R3-001604,CR68r10
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 {
    -- R3-001498,CR162
    commonPhysicalTransportChannelID          CommonPhysicalTransportChannelID,
    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 }|
  -- R3-001637,CR140r1
  -- 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,
  -- R3-001604,CR68r10
  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 ::= {
    ...
}

-- R3-001604,CR68r10
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,
-- R3-001604,CR68r10
    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 ::= {
    ...
}
-- R3-001604,CR68r10
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,
    -- R3-001604,CR68r10
    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 {
    -- R3-001640,CR149r2
    commonMeasurementValue      CommonMeasurementValue,
    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 {
    -- R3-001640,CR149r2
    commonMeasurementValue      CommonMeasurementValue,
    measurementAvailabilityIndicator  MeasurementAvailabilityIndicator-CommonMeasurementReport,
    iE-Extensions          ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }} OPTIONAL,
    ...
}

RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
-- R3-001604,CR68r10
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 ::= {
  ...
}

-- R3-001640,CR149r2
MeasurementAvailabilityIndicatorItem-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 {
  cCommonmeasurementValue    CommonMeasurementValue,
  ie-Extensions              ProtocolExtensionContainer { { MeasurementAvailableItem-CommonMeasurementReport-ExtTIEs } }    OPTIONAL,
  ...
}

MeasurementAvailableItem-CommonMeasurementReport-ExtTIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

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

```

MeasurementnotAvailableItem-CommonMeasurementReport ::= NULL

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

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

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

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

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

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

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

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

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

```
CellSetupRequestFDD ::= SEQUENCE {
```

```

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

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID    id-Local-Cell-ID                CRITICALITY    reject        TYPE    Local-Cell-ID
  PRESENCE    mandatory    }|
  { ID    id-C-ID                          CRITICALITY    reject        TYPE    C-ID                PRESENCE
  mandatory    }|
  { ID    id-ConfigurationGenerationID     CRITICALITY    reject        TYPE    ConfigurationGenerationID
  PRESENCE    mandatory    }|
  { ID    id-T-Cell                        CRITICALITY    reject        TYPE    T-Cell
  PRESENCE    mandatory    }|
  { ID    id-UARFCNforNu                   CRITICALITY    reject        TYPE    UARFCN
  PRESENCE    mandatory    }|
  { ID    id-UARFCNforNd                   CRITICALITY    reject        TYPE    UARFCN
  PRESENCE    mandatory    }|
  { ID    id-MaximumTransmissionPower     CRITICALITY    reject        TYPE    MaximumTransmissionPower
  PRESENCE    mandatory    }|
  -- R3-001231,CR88r2
  { ID    id-Closed-Loop-Timing-Adjustment-Mode CRITICALITY    reject        TYPE    Closedlooptimingadjustmentmode
  PRESENCE    optional    }|
  { ID    id-PrimaryScramblingCode        CRITICALITY    reject        TYPE    PrimaryScramblingCode
  PRESENCE    mandatory    }|
  -- R3-001489,CR128r1
  { ID    id-DL-TPC-Pattern01Count        CRITICALITY    reject        TYPE    DL-TPC-Pattern01Count
  PRESENCE    mandatory    }|
  -- R3-001255,CR89r3
  { ID    id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY    reject        TYPE    Synchronisation-Configuration-Cell-SetupRqst
  PRESENCE    mandatory    }|
  { ID    id-PrimarySCH-Information-Cell-SetupRqstFDD CRITICALITY    reject        TYPE    PrimarySCH-Information-Cell-SetupRqstFDD
  PRESENCE    mandatory    }|
  { ID    id-SecondarySCH-Information-Cell-SetupRqstFDD CRITICALITY    reject        TYPE    SecondarySCH-Information-Cell-SetupRqstFDD
  PRESENCE    mandatory    }|
  { ID    id-PrimaryCPICH-Information-Cell-SetupRqstFDD CRITICALITY    reject        TYPE    PrimaryCPICH-Information-Cell-SetupRqstFDD
  PRESENCE    mandatory    }|
  { ID    id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD CRITICALITY    reject        TYPE    SecondaryCPICH-InformationList-Cell-
  SetupRqstFDD PRESENCE    optional    }|
  { ID    id-PrimaryCCPCH-Information-Cell-SetupRqstFDD CRITICALITY    reject        TYPE    PrimaryCCPCH-Information-Cell-SetupRqstFDD
  PRESENCE    mandatory    }|
  -- R3-001590,CR96r5
  { ID    id-Limited-power-increase-information-Cell-SetupRqstFDD CRITICALITY    reject        TYPE    Limited-power-increase-information-Cell-
  SetupRqstFDD PRESENCE    mandatory    },
  ...
}

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

-- R3-001255,CR89r3
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 ::= {
    ...
}

-- R3-001590,CR96r5
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 }|
-- R3-001575,CR107r3
    { 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 }|
-- R3-001255,CR89r3
    { ID id-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 }|
    -- R3-001255,CR89r3
    { 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 ::= {
...
}

```

```
-- R3-001255,CR89r3
```

```

Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE {
  n-INSYNC-IND          N-INSYNC-IND OPTIONAL,
  n-OUTSYNC-IND         N-OUTSYNC-IND OPTIONAL,
  t-RLFAILURE          T-RLFAILURE OPTIONAL,
  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 }|
-- R3-001255,CR89r3
    { ID      id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY  reject      TYPE  Synchronisation-Configuration-Cell-ReconfRqst
    PRESENCE  optional }|
    { ID      id-SCH-Information-Cell-ReconfRqstTDD CRITICALITY  reject      TYPE  SCH-Information-Cell-ReconfRqstTDD
    PRESENCE  optional }|
    { ID      id-PCCPCH-Information-Cell-ReconfRqstTDD CRITICALITY  reject      TYPE  PCCPCH-Information-Cell-ReconfRqstTDD
    PRESENCE  optional }|
    { ID      id-MaximumTransmissionPower           CRITICALITY  reject      TYPE  MaximumTransmissionPower             PRESENCE
    optional }|
-- R3-001575,CR107r3
    { ID      id-DPCHConstant                       CRITICALITY  reject      TYPE  ConstantValue                       PRESENCE
    optional }|
    { ID      id-PUSCHConstant                      CRITICALITY  reject      TYPE  ConstantValue                       PRESENCE
    optional }|
    { ID      id-PRACHConstant                      CRITICALITY  reject      TYPE  ConstantValue                       PRESENCE
    optional }|
    { ID      id-TimeSlotConfigurationList-Cell-ReconfRqstTDD CRITICALITY  reject      TYPE  TimeSlotConfigurationList-Cell-ReconfRqstTDD
    PRESENCE  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,
-- R3-001604,CR68r10
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 ::= {
    ...
}

-- R3-001604,CR68r10
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 {
  -- R3-001498,CR162
  commonPhysicalTransportChannelID             CommonPhysicalTransportChannelID,
  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

--R3-001230,CR87r2
MIB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
  iB-Type          IB-Type,
  sIB-DeletionIndicator          SIB-DeletionIndicator          OPTIONAL,

```

```

| -- This IE shall be present if the IB-Type is not equal to "MIB"
  deletionIndicator      DeletionIndicator-SystemInfoUpdate,
  iE-Extensions          ProtocolExtensionContainer { { MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs } }    OPTIONAL,
  ...
}

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

| --R3-001230,CR87r2
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 rejectignore 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"
| --R3-001230,CR87r2
  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 }}

| --R3-001230,CR87r2
SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
| { ID id-SegmentInformationListIE-SystemInfoUpdate    CRITICALITY rejectignore TYPE SegmentInformationListIE-SystemInfoUpdate    PRESENCE
mandatory },
  ...
}

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

| --R3-001230,CR87r2
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 }|
-- R3-001609,CR146r1
    { 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,
    -- R3-001258,CR94r2
    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 {
    -- R3-001614,CR133r2
    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,  
 -- R3-001614,CR133r2  
~~dCH-CombinationIndication~~ ~~DCH-CombinationInd~~ ~~OPTIONAL,~~  
 -- R3-001258,CR94r2  
~~limitedPowerIncrease~~ ~~LimitedPowerIncrease,~~  
 ul-TransportFormatSet TransportFormatSet,  
 dl-TransportFormatSet TransportFormatSet,  
 frameHandlingPriority FrameHandlingPriority,  
 -- R3-001614,CR133r2  
~~payloadCRC-PresenceIndicator~~ ~~PayloadCRC-PresenceIndicator,~~  
~~ul-FP-Mode~~ ~~UL-FP-Mode,~~  
 qE-Selector QE-Selector,  
 -- R3-001614,CR133r2  
~~toAWS~~ ~~ToAWS,~~  
~~toAWE~~ ~~ToAWE,~~  
 iE-Extensions ProtocolExtensionContainer { { DCH-SpecificInformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,  
 ...  
}

DCH-SpecificInformationItem-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,
    -- R3-001489,CR128r1
    firstRLS-indicator      FirstRLS-Indicator,
    frameOffset          FrameOffset,
    chipOffset           ChipOffset,
    propagationDelay     PropagationDelay           OPTIONAL,
    diversityControlField DiversityControlField     OPTIONAL,
    -- This IE is present only if the RL is not the first one in the RL Information
    dl-CodeInformationList DL-CodeInformationList-RL-SetupRqstFDD,
    initialDL-transmissionPower DL-Power,
    maximumDL-power       DL-Power,
    minimumDL-power       DL-Power,
    sSDT-Cell-Identity    SSdT-Cell-Identity       OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
    -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions         ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

DL-CodeInformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dl-ScramblingCode      DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    -- R3-001609,CR146r1
    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 optional }|
  { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD
  PRESENCE optional }|
  { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationList-RL-SetupRqstTDD
  PRESENCE optional }|
  { ID id-DCH-InformationList-RL-SetupRqstTDD CRITICALITY reject TYPE DCH-InformationList-RL-SetupRqstTDD
  PRESENCE optional }|
  { ID id-DSCH-InformationList-RL-SetupRqstTDD CRITICALITY reject TYPE DSCH-InformationList-RL-SetupRqstTDD
  PRESENCE optional }|
  { ID id-USCH-InformationList-RL-SetupRqstTDD CRITICALITY reject TYPE USCH-InformationList-RL-SetupRqstTDD
  PRESENCE optional }|
  { ID id-RL-Information-RL-SetupRqstTDD CRITICALITY reject TYPE RL-Information-RL-SetupRqstTDD
  PRESENCE mandatory },
  ...
}

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

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

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

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

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

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

```

```

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

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

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

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

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID            CCTrCH-ID,
    tFCS                 TFCS,
    tFCI-Coding          TFCI-Coding,
    punctureLimit        PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
    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 {
-- R3-001614,CR133r2
    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,
-- R3-001258,CR94r2
    limitedPowerIncrease              LimitedPowerIncrease,
    ul-CCTrCH-ID                     CCTrCH-ID,
    dl-CCTrCH-ID                     CCTrCH-ID,
-- R3-001614,CR133r2
    dCH-CombinationIndication        DCH-CombinationIndication OPTIONAL,
    ul-TransportFormatSet            TransportFormatSet,
    dl-TransportFormatSet            TransportFormatSet,
    frameHandlingPriority             FrameHandlingPriority OPTIONAL,
-- R3-001614,CR133r2
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
-- R3-001565,CR119r2
    qE-Selector                       QE-Selector,
-- R3-001614,CR133r2
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-SpecificInformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-SpecificInformationItem-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-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-RL-SetupRspFDD DiversityIndication-RL-SetupRspFDD OPTIONAL,
    -- 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.is present only if the RL is not the first one in the RL-Information
    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,
    -- R3-001497,CR124r1
    nonCombiningOrFirstRLIENotPresent      NonCombiningOrFirstRLIENotPresent-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 ::= {
    ...
}

-- R3-001497,CR124r1
NonCombiningOrFirstRLIENotPresent-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIENotPresentIE-RL-SetupRspFDD }}

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

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

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

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

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

```

```

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

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

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

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

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

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

-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

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

RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID                CRITICALITY    ignore                TYPE CRNC-CommunicationContextID
PRESENCE    mandatory    }|
    { ID    id-NodeB-CommunicationContextID              CRITICALITY    ignore                TYPE NodeB-CommunicationContextID
PRESENCE    mandatory    }|
    { ID    id-CommunicationControlPortID               CRITICALITY    ignore                TYPE    CommunicationControlPortID
PRESENCE    mandatory    }|
    { ID    id-RL-InformationResponse-RL-SetupRspTDD     CRITICALITY    ignore                TYPE RL-InformationResponse-RL-SetupRspTDD
PRESENCE    mandatory    }|
    { ID    id-CriticalityDiagnostics                   CRITICALITY    ignore                TYPE CriticalityDiagnostics
PRESENCE    optional    },
    ...
}

```



```

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

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                               RL-ID,
    uL-InterferenceList-RL-SetupRspTDD UL-InterferenceList-RL-SetupRspTDD,
    dCH-InformationResponseList         DCH-InformationResponseList-RL-SetupRspTDD,
    dSCH-InformationResponseList         DSCH-InformationResponseList-RL-SetupRspTDD    OPTIONAL,
    uSCH-InformationResponseList         USCH-InformationResponseList-RL-SetupRspTDD    OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs } }    OPTIONAL,
    ...
}

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

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

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot                            TimeSlot,
    ul-InterferenceLevel                 UL-InterferenceLevel,
    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 } |
  -- R3-001469,CR112r1
  { ID id-NodeB-CommunicationContextID                            CRITICALITY ignore TYPE NodeB-CommunicationContextID
    PRESENCE mandatoryoptional } |
  { ID id-CommunicationControlPortID                             CRITICALITY ignore TYPE CommunicationControlPortID
    PRESENCE optionalmandatory } |
  -- R3-001450,CR158
  { ID id-CauseLevel-RL-SetupFailureFDD                          CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD
    PRESENCE mandatory } |
  { ID id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespList-
  RL-SetupFailureFDD PRESENCE mandatory } |
  { ID id-Successful-RL-InformationRespList-RL-SetupFailureFDD   CRITICALITY ignore TYPE Successful-RL-InformationRespList-
  RL-SetupFailureFDD PRESENCE optional } |
  { ID id-CriticalityDiagnostics                                CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
}
...
}
RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
-- R3-001450,CR158
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,
  -- R3-001637,CR140r1, R3-001497,CR124r1

```

```

diversityIndication          DiversityIndication-RL-SetupFailureFDD OPTIONAL,
-- 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 9.1.1 is present if at least one of the RL is not the first one in the RL information
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,
    nonCombiningOrFirstRLIENotPresent NonCombiningOrFirstRLIENotPresent-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 ::= {
...
}

-- R3-001497,CR124r1
NonCombiningOrFirstRLIENotPresent-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIENotPresentIE-RL-SetupFailureFDD }}

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

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

```

```

NonCombiningOrFirstRLIENotPresentItem-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 ::= {
    ...
}

-- *****
--
-- 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
      PRESENCE mandatory }|
-- R3-001450,CR158
{ ID id-CauseLevel-RL-SetupFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD
  PRESENCE mandatory }|
{ ID id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResp-RL-
SetupFailureTDD PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
  ...
}

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

-- R3-001450,CR158
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 }|7
-- R3-001609,CR146r1
{ 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,
-- R3-001609,CR146r1
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,
}

-- R3-001637,CR140r1
-- 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 ::= {
...
}

-- R3-001469,CR112r1
DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHRLs)) 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,
    -- R3-001637,CR140r1
    -- 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 } |
  -- R3-001450,CR158
  { ID      id-CauseLevel-RL-AdditionFailureFDD     CRITICALITY  ignore      TYPE  CauseLevel-RL-AdditionFailureFDD
    PRESENCE  mandatory } |
  { ID      id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD CRITICALITY  ignore      TYPE  Unsuccessful-RL-InformationRespList-
  RL-AdditionFailureFDD      PRESENCE  mandatory } |
  { ID      id-Successful-RL-InformationRespList-RL-AdditionFailureFDD CRITICALITY  ignore      TYPE  Successful-RL-InformationRespList-
  RL-AdditionFailureFDD      PRESENCE  mandatory } |
  { ID      id-CriticalityDiagnostics              CRITICALITY  ignore      TYPE  CriticalityDiagnostics
    PRESENCE  optional } ,
  ...
}

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

-- R3-001450,CR158
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,
  -- R3-001637,CR140r1
  -- 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} }
    ...
}

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}}
    ...
}

RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY   ignore   TYPE   CRNC-CommunicationContextID
      PRESENCE  mandatory }|
    -- R3-001450,CR158
    { ID      id-CauseLevel-RL-AdditionFailureTDD    CRITICALITY   ignore   TYPE   CauseLevel-RL-AdditionFailureTDD
      PRESENCE  mandatory }|
    { ID      id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD CRITICALITY   ignore   TYPE   Unsuccessful-RL-InformationResp-RL-
    AdditionFailureTDD PRESENCE  mandatory }|
    { ID      id-CriticalityDiagnostics              CRITICALITY   ignore   TYPE   CriticalityDiagnostics
      PRESENCE  optional },
    ...
}

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

```

```

}
...
}
-- R3-001450,CR158
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-RL-InformationList-RL-ReconfPrepFDD    CRITICALITY reject          TYPE RL-InformationList-RL-ReconfPrepFDD    PRESENCE
    optional } }
-- R3-001609, CR146r1
{ 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,
    -- R3-001258,CR94r2
    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 {
    -- R3-001614,CR133r2
    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,            |
| <del>-- R3-001614,CR133r2</del> |   |                      |
| <del>ul-FP-Mode</del>           | <del>UL-FP-Mode</del>   | <del>OPTIONAL,</del> |
| <del>toAWS</del>                | <del>ToAWS</del>  | <del>OPTIONAL,</del> |
| <del>toAWE</del>                | <del>ToAWE</del>  | <del>OPTIONAL,</del> |
| iE-Extensions                   | ProtocolExtensionContainer { { DCH-Modify <u>Specific</u> Item-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 {

|   |  |                      |
|---|--|----------------------|
| <del>-- R3-001614,CR133r2</del>         |  |                      |
| <del>payloadCRC-PresenceIndicator</del> | <del>PayloadCRC-PresenceIndicator,</del>   |                      |
| <del>ul-FP-Mode</del>                   | <del>UL-FP-Mode,</del>   |                      |
| <del>toAWS</del>                        | <del>ToAWS,</del>  |                      |
| <del>toAWE</del>                        | <del>ToAWE,</del>  |                      |
| <del>dCH-SpecificInformationList</del>  | <del>DCH-AddSpecificInformationList-RL-ReconfPrepFDD,</del>                      |                      |
| <del>iE-Extensions</del>                | <del>ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepFDD-ExtIEs} }</del> | <del>OPTIONAL,</del> |
| <del>...</del>                          |  |                      |

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,                                  |                      |
| <del>-- R3-001614,CR133r2</del>         |  |                      |
| <del>dCH-CombinationIndication</del>    | <del>DCH-CombinationInd</del>            | <del>OPTIONAL,</del> |
| <del>-- R3-001258,CR94r2</del>          |  |                      |
| <del>limitedPowerIncrease</del>         | <del>LimitedPowerIncrease,</del>         |                      |
| ul-TransportFormatSet                   | TransportFormatSet,                      |                      |
| dl-TransportFormatSet                   | TransportFormatSet,                      |                      |
| frameHandlingPriority                   | FrameHandlingPriority,                   |                      |
| <del>-- R3-001614,CR133r2</del>         |  |                      |
| <del>payloadCRC-PresenceIndicator</del> | <del>PayloadCRC-PresenceIndicator,</del> |                      |



```

ul-FP-Mode          UL-FP-Mode,
qE-Selector           QE-Selector,
-- R3-001614,CR133r2
toAWS              ToAWS,
toAWE              ToAWE,
iE-Extensions         ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

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

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    dl-CodeInformationList  DL-CodeInformationList-RL-ReconfPrepFDD    OPTIONAL,
    maxDL-Power            DL-Power                OPTIONAL,
    minDL-Power            DL-Power                OPTIONAL,
    sSDT-Indication        SSDT-Indication                OPTIONAL,
    sSDT-Cell-Identity     SSDT-Cell-Identity                OPTIONAL,
    -- The IE may be present if the SSDT Indication is set to SSDT Active in the UE
    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,
    -- R3-001609,CR146r1
    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
      PRESENCE mandatory } |
    -- R3-001350,CR103r1
    { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepTDD
      PRESENCE optional } |
}

```

```

{ ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE optional } |
{ ID id-DSCH-information-AddList-RL-ReconfPrepTDD
  PRESENCE optional } |
{ ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE optional } |
{ ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE optional } |
{ ID id-USCH-information-AddList-RL-ReconfPrepTDD
  PRESENCE optional } |
{ ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE optional } |
{ ID id-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 OPTIONAL,
  tFCI-Coding       TFCI-Coding OPTIONAL,
  punctureLimit     PunctureLimit OPTIONAL,
  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 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-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
...
}

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

-- R3-001350,CR103r1
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
    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 OPTIONAL,
    tFCI-Coding       TFCI-Coding OPTIONAL,
    punctureLimit     PunctureLimit OPTIONAL,
    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 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-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 {
    cCCTrCH-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 {
    -- R3-001614,CR133r2
    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-cCCTrCH-ID CCTrCH-ID OPTIONAL,
    dl-cCCTrCH-ID CCTrCH-ID OPTIONAL,
    ul-TransportFormatSet TransportFormatSet OPTIONAL,
    dl-TransportFormatSet TransportFormatSet OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    -- R3-001614,CR133r2
    ul-FP-Mode UL-FP-Mode OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE 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 {
-- R3-001614,CR133r2
  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,
-- R3-001258,CR94r2
  limitedPowerIncrease              LimitedPowerIncrease,
  ul-CCTrCH-ID                     CCTrCH-ID,
  dl-CCTrCH-ID                       CCTrCH-ID,
-- R3-001614,CR133r2
  dCH-CombinationIndication         DCH-CombinationIndication OPTIONAL,
  ul-TransportFormatSet             TransportFormatSet,
  dl-TransportFormatSet             TransportFormatSet,
  frameHandlingPriority              FrameHandlingPriority,
-- R3-001614,CR133r2
  payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
  ul-FP-Mode                        UL-FP-Mode,
-- R3-001565,CR119r2
  qE-Selector                       QE-Selector,
-- R3-001614,CR133r2
  toAWS                             ToAWS,
  toAWE                             ToAWE,
  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,
    cTrCH-ID               CTrCH-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,
    cTrCH-ID               CTrCH-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,
    cTrCH-ID              CTrCH-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,
    cTrCH-ID              CTrCH-ID,
    transportFormatSet    TransportFormatSet,
    -- R3-001565,CR119r2
    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,
    -- R3-001204,CR97r1
dCH-AddList-RL-ReconfReady          DCH-AddList-RL-ReconfReady          OPTIONAL,
dCH-ModifyList-RL-ReconfReady       DCH-ModifyList-RL-ReconfReady       OPTIONAL,
dSCH-SetupList-RL-ReconfReady       DSCH-SetupList-RL-ReconfReady       OPTIONAL,
dSCH-ModifyList-RL-ReconfReady      DSCH-ModifyList-RL-ReconfReady      OPTIONAL,
uSCH-SetupList-RL-ReconfReady       USCH-SetupList-RL-ReconfReady       OPTIONAL,
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,
uSCH-ModifyList-RL-ReconfReady       USCH-ModifyList-RL-ReconfReady       OPTIONAL,
    iE-Extensions  ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

-- R3-001204,CR97r1
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 (01..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 ::= {
_____
_____
}

DCH-AddList-RL-ReconfReady ::= ProtocolIE-Container {{ DCH-AddListIEs-RL-ReconfReady }}

DCH-AddListIEs-RL-ReconfReady-NBAP-PROTOCOL-IES ::= {
_____ { ID id-DCH-AddListIE-RL-ReconfReady CRITICALITY ignore TYPE DCH-AddListIE-RL-ReconfReady PRESENCE mandatory },
_____
_____
}

DCH-AddListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfReady

DCH-AddItem-RL-ReconfReady ::= SEQUENCE {
_____ dCH-ID _____ DCH-ID,
_____ bindingID _____ BindingID,
_____ transportLayerAddress _____ TransportLayerAddress,
_____ IE-Extensions _____ ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfReady-ExtIEs } } _____ OPTIONAL,
_____
_____
}

DCH-AddItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
_____
_____
}

DCH-ModifyList-RL-ReconfReady ::= ProtocolIE-Container {{ DCH-ModifyListIEs-RL-ReconfReady }}

DCH-ModifyListIEs-RL-ReconfReady-NBAP-PROTOCOL-IES ::= {
_____ { ID id-DCH-ModifyListIE-RL-ReconfReady CRITICALITY ignore TYPE DCH-ModifyListIE-RL-ReconfReady PRESENCE mandatory },
_____
_____
}

DCH-ModifyListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfReady

DCH-ModifyItem-RL-ReconfReady ::= SEQUENCE {
_____ dCH-ID _____ DCH-ID,
_____ bindingID _____ BindingID,
_____ transportLayerAddress _____ TransportLayerAddress,
_____ IE-Extensions _____ ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfReady-ExtIEs } } _____ OPTIONAL,
_____
_____
}

```



```

    ...
}

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

DSCH-SetupList-RL-ReconfReady ::= ProtocolIE-Container {{ DSCH-SetupListIEs-RL-ReconfReady }}

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

DSCH-SetupListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-SetupItem-RL-ReconfReady

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

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

DSCH-ModifyList-RL-ReconfReady ::= ProtocolIE-Container {{ DSCH-ModifyListIEs-RL-ReconfReady }}

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

DSCH-ModifyListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfReady

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

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

USCH-SetupList-RL-ReconfReady ::= ProtocolIE-Container {{ USCH-SetupListIEs-RL-ReconfReady }}

USCH-SetupListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-SetupListIE-RL-ReconfReady CRITICALITY ignore TYPE USCH-SetupListIE-RL-ReconfReady PRESENCE mandatory },

```

```

...
}

USCH-SetupListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-SetupItem-RL-ReconfReady

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

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

USCH-ModifyList-RL-ReconfReady ::= ProtocolIE-Container { { USCH-ModifyListIEs-RL-ReconfReady } }

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

USCH-ModifyListIE-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-ModifyItem-RL-ReconfReady

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

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

-- *****
--
-- 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 } |

```

```

-- R3-001450,CR158
{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE
  mandatory } |
{ ID id-CauseLevelRL-ReconfigurationFailureList-RL-ReconfFailure CRITICALITY ignore TYPE CauseLevelRL-ReconfigurationFailureList-RL-
ReconfFailure PRESENCE optionalmandatory } |
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
  PRESENCE optional },
...
}

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

-- R3-001540,CR158
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 } |
  -- R3-001609,CR146r1
  { 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    TFCI-SignallingMode    OPTIONAL,
  pDSCH-CodeMapping      PDSCH-CodeMapping    OPTIONAL,
  pDSCH-RL-ID            RL-ID                OPTIONAL,
  -- R3-001258,CR94r2
  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 {
-- R3-001614,CR133r2
  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,
-- R3-001614,CR133r2
ul-FP-Mode            UL-FP-Mode            OPTIONAL,
toAWS                 ToAWS                 OPTIONAL,
toAWE                 ToAWE                 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 {
-- R3-001614,CR133r2
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,
-- R3-001614,CR133r2
dCH-CombinationInd    DCH-CombinationInd    OPTIONAL,
-- R3-001258,CR49r2
limitedPowerIncrease   LimitedPowerIncrease,
ul-TransportFormatSet TransportFormatSet,
dl-TransportFormatSet TransportFormatSet,
frameHandlingPriority FrameHandlingPriority,
-- R3-001614,CR133r2
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode            UL-FP-Mode,
qE-Selector          QE-Selector,
-- R3-001614,CR133r2
toAWS                 ToAWS,
toAWE                 ToAWE,
iE-Extensions        ProtocolExtensionContainer { { DCH-AddSpecific-RL-ReconfRqstFDDItem-ExtIEs} }    OPTIONAL,

```

```

}
...
}
DCH-AddSpecific-RL-ReconfRqstFDDItem-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,
-- R3-001609,CR146r1
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,
...
}

-- R3-001609,CR146r1
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    } |
-- R3-001350,CR103r1
{ ID      id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE    UL-CCTrCH-InformationList-RL-ReconfRqstTDD
  PRESENCE  optional    } |
    { ID      id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE    UL-CCTrCH-InformationModifyList-RL-
ReconfRqstTDD          PRESENCE  optional    } |
    { ID      id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE    UL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD          PRESENCE  optional    } |
    { ID      id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE    DL-CCTrCH-InformationModifyList-RL-
ReconfRqstTDD          PRESENCE  optional    } |
{ ID      id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE    DL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD          PRESENCE  optional    } |
    { ID      id-DCH-ModifyList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE    DCH-ModifyList-RL-ReconfRqstTDD
      PRESENCE  optional    } |
    { ID      id-DCH-AddList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE    DCH-AddList-RL-ReconfRqstTDD
      PRESENCE  optional    } |
    { ID      id-DCH-DeleteList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE    DCH-DeleteList-RL-ReconfRqstTDD
      PRESENCE  optional    } |
    { ID      id-DSCH-Information-ModifyList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE    DSCH-Information-ModifyList-RL-ReconfRqstTDD
      PRESENCE  optional    } |
    { ID      id-DSCH-Information-AddList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE    DSCH-Information-AddList-RL-ReconfRqstTDD
      PRESENCE  optional    } |
}

```

```

{ ID id-DSCH-Information-DeleteList-RL-ReconfRqstTDD          CRITICALITY reject      TYPE DSCH-Information-DeleteList-RL-ReconfRqstTDD
  PRESENCE optional } |
{ ID id-USCH-Information-ModifyList-RL-ReconfRqstTDD          CRITICALITY reject      TYPE USCH-Information-ModifyList-RL-ReconfRqstTDD
  PRESENCE optional } |
{ ID id-USCH-Information-AddList-RL-ReconfRqstTDD             CRITICALITY reject      TYPE USCH-Information-AddList-RL-ReconfRqstTDD
  PRESENCE optional } |
{ ID id-USCH-Information-DeleteList-RL-ReconfRqstTDD          CRITICALITY reject      TYPE USCH-Information-DeleteList-RL-ReconfRqstTDD
  PRESENCE optional } |
{ ID id-RL-Information-RL-ReconfRqstTDD                       CRITICALITY ignore      TYPE RL-Information-RL-ReconfRqstTDD
  PRESENCE optional },
...
}

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

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

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

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

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

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

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

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

```

```

}
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-
InformationModifyItemIE-RL-ReconfRqstTDD}}
DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-InformationModifyItem-RL-
ReconfRqstTDD          PRESENCE      mandatory},
    ...
}
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS          OPTIONAL,
    punctureLimit            PunctureLimit OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs } }
    OPTIONAL,
    ...
}
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}
DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-InformationDeleteItem-RL-
ReconfRqstTDD          PRESENCE      mandatory},
    ...
}
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } }
    OPTIONAL,
    ...
}
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstTDD
DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    -- R3-001614,CR133r2
    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,
-- R3-001614,CR133r2
ul-FP-Mode UL-FP-Mode OPTIONAL,
toAWS ToAWS OPTIONAL,
toAWE ToAWE 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 {
-- R3-001614,CR133r2
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,

```

```

-- R3-001258,CR94r2
limitedPowerIncrease LimitedPowerIncrease,
ul-CCTrCH-ID CCTrCH-ID,
dl-CCTrCH-ID CCTrCH-ID,
-- R3-001614,CR133r2
dCH-CombinaionInd DCH-CombinationInd OPTIONAL,
ul-TransportFormatSet TransportFormatSet,
dl-TransportFormatSet TransportFormatSet,
frameHandlingPriority FrameHandlingPriority,
-- R3-001614,CR133r2
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode UL-FP-Mode,
-- R3-001565,CR119r2
qE-Selector qE-Selector,
-- R3-001614,CR133r2
toAWS ToAWS,
toAWE ToAWE,
iE-Extensions ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

```

```

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

```

```

DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD

```

```

DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
dCH-ID DCH-ID,
iE-Extensions ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

}

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

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

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

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

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

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

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

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

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

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

USCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    ...
}

```

```
-- R3-001565,CR119r2
```

```

    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,
    -- R3-001453,CR159
    timeslotISCPInfoList          TimeslotISCPInfoList-RL-ReconfRqstTDD  OPTIONAL,
    iE-Extensions    ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

-- R3-001453,CR159
TimeslotISCPInfoList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..mMaxNrOfDLTSS)) 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,
    -- R3-001204,CR97r1
    dCH-AddList-RL-ReconfRsp          DCH-AddList-RL-ReconfRsp          OPTIONAL,
    dCH-ModifyList-RL-ReconfRsp       DCH-ModifyList-RL-ReconfRsp       OPTIONAL,
    dSCH-SetupList-RL-ReconfRsp       DSCH-SetupList-RL-ReconfRsp       OPTIONAL,
    dSCH-ModifyList-RL-ReconfRsp       DSCH-ModifyList-RL-ReconfRsp       OPTIONAL,
    uSCH-SetupList-RL-ReconfRsp       USCH-SetupList-RL-ReconfRsp       OPTIONAL,
    uSCH-ModifyList-RL-ReconfRsp       USCH-ModifyList-RL-ReconfRsp       OPTIONAL,
    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 ::= {
    ...
}

-- R3-001204,CR97r1
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 (01..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 ::= {
  ...
}

DCH-AddList-RL-ReconfRsp ::= ProtocolIE-Container {{ DCH-AddListIEs-RL-ReconfRsp }}

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

DCH-AddListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRsp

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

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

DCH-ModifyList-RL-ReconfRsp ::= ProtocolIE-Container {{ DCH-ModifyIEs-RL-ReconfRsp }}

```

```

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

DCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRsp

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

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

DSCH-SetupList-RL-ReconfRsp ::= ProtocolIE-Container {{ DSCH-SetupListIEs-RL-ReconfRsp }}

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

DSCH-SetupListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-SetupItem-RL-ReconfRsp

DSCH-SetupItem-RL-ReconfRsp ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  IE-Extensions ProtocolExtensionContainer { { DSCH-SetupItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
  ...
}

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

DSCH-ModifyList-RL-ReconfRsp ::= ProtocolIE-Container {{ DSCH-ModifyListIEs-RL-ReconfRsp }}

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

DSCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfRsp

DSCH-ModifyItem-RL-ReconfRsp ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  bindingID BindingID,

```

```

transportLayerAddress TransportLayerAddress,
iE-Extensions ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
...
}

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

USCH-SetupList-RL-ReconfRsp ::= ProtocolIE-Container { { USCH-SetupListIEs-RL-ReconfRsp } }

USCH-SetupListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
{ ID id-USCH-SetupListIE-RL-ReconfRsp CRITICALITY ignore TYPE USCH-SetupListIE-RL-ReconfRsp PRESENCE mandatory },
...
}

USCH-SetupListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-SetupItem-RL-ReconfRsp

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

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

USCH-ModifyList-RL-ReconfRsp ::= ProtocolIE-Container { { USCH-ModifyListIEs-RL-ReconfRsp } }

USCH-ModifyListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
{ ID id-USCH-ModifyListIE-RL-ReconfRsp CRITICALITY ignore TYPE USCH-ModifyListIE-RL-ReconfRsp PRESENCE mandatory },
...
}

USCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-ModifyItem-RL-ReconfRsp

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

USCH-ModifyItem-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'
    -- R3-001611,CR123r3
    { ID id-MaxAdjustmentStep                    CRITICALITY ignore     TYPE ScaledMaxAdjustmentStep                PRESENCE conditional } |
    -- This IE is present only 'Adjustment Type " equals to 'Common' or 'Individual'
    { ID id-MaxAdjustmentPeriod                  CRITICALITY ignore     TYPE ScaledMaxAdjustmentPeriod              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
    } |
    -- R3-001476,CR150r1
    { ID      id-DedicatedMeasurementObjectType  CRITICALITY  reject      TYPE      DedicatedMeasurementObjectType  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,
    -- R3-001476,CR150r1
    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 ::= {
    ...
}

-- R3-001476,CR150r1
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,
-- R3-001476,CR150r1
all-RL AllRL-DM-Rsp,
all-RLS AllRL-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 ::= {
...
}

-- R3-001476,CR150r1
AllRL-DM-Rsp ::= ProtocolIE-Container {{ AllRLIE-DM-Rsp }}

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

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

AllRLItem-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 ::= {
  ...
}

-- R3-001476,CR150r1
AllRL-Set-DM-Rsp ::= ProtocolIE-Container {{ AllRLIE-Set-DM-Rsp }}

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

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

AllRLItem-Set-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 ::= {
    ...
}

-- R3-001476,CR150r1
AllRL-DM-Rprt ::= ProtocolIE-Container {{ AllRLIE-DM-Rprt }}

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

AllRLItem-DM-Rprt ::= SEQUENCE {

```

```


rL-InformationList-DM-Rprt RL-InformationList-DM-Rprt,
iE-Extensions ProtocolExtensionContainer { { AllRLItem-DM-Rprt-ExtIEs } } OPTIONAL,
...
}
}
AllRLItem-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,
-- R3-001640,CR149r2

dedicatedMeasurementValue DedicatedMeasurementValue,
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 ::= {
...
}
-- R3-001476,CR150r1

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


```

```

}

AllRLItem-Set-DM-Rprt ::= SEQUENCE {
  rl-Set-InformationList-DM-Rprt RL-Set-InformationList-DM-Rprt,
  ie-Extensions ProtocolExtensionContainer { { AllRLItem-Set-DM-Rprt-ExtIEs } } OPTIONAL,
  ...
}

AllRLItem-Set-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,
  -- R3-001640,CR149r2
  dedicatedMeasurementValue DedicatedMeasurementValue,
  measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
  ie-Extensions ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
  ...
}

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

-- R3-001640,CR149r2
MeasurementAvailabilityIndicatorItem-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-EXTENSIONS ::= {
  ...
}

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
    } ,
  -- R3-001469,CR112r1
  { ID id CriticalityDiagnostics              CRITICALITY ignore          TYPE CriticalityDiagnostics              PRESENCE optional
    } ,
  ...
}

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 ::= {
  ...
}

-- R3-001609,CR146r1
-- *****

```

```

--
-- 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 ignorereject TYPE NodeB-CommunicationContextID PRESENCE
  mandatory } |
  { ID id-Active-Pattern-Sequence-Information CRITICALITY ignorereject TYPE Active-Pattern-Sequence-Information PRESENCE
  mandatory },
  ...
}

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

*****
--
-- COMPRESSED MODE PREPARE FDD
--
-- *****
CompressedModePrepare ::= SEQUENCE {
  protocolIEs      ProtocolIE-Container    {{CompressedModePrepare-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModePrepare-Extensions}} OPTIONAL,
  ...
}

CompressedModePrepare-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
  { ID id-CM-PatternInformationList-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationList-CompressedModePrep
  PRESENCE mandatory },
  ...
}

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

```

```

CM-PatternInformationList-CompressedModePrep ::= SEQUENCE (SIZE (1.. maxNrOfCMpatterns)) OF ProtocolIE-Container {{ CM-PatternInformationItemIE-
CompressedModePrep }}

CM-PatternInformationItemIE-CompressedModePrep NBAP-PROTOCOL-IES ::= {
  { ID id-CM-PatternInformationItem-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationItem-CompressedModePrep
  PRESENCE mandatory},
  ...
}

CM-PatternInformationItem-CompressedModePrep ::= SEQUENCE {
  cFNOffset CFNOffset,
  tGP1 GapPeriod,
  tGP2 GapPeriod OPTIONAL,
  tGL TGL,
  tGD TGD,
  pD PD,
  ul-DL-CompressedModeSelection UL-DL-CompressedModeSelection,
  compressedModeMethod CompressedModeMethod,
  gapPositionMode GapPositionMode,
  sN TimeSlot OPTIONAL,
  -- This IE is present if Gap position mode = 'flexible position' --
  dl-FrameType DL-FrameType,
  scramblingCodeChange ScramblingCodeChange OPTIONAL,
  -- This IE is present if Compressed mode method = 'SF/2' --
  powerControlMode PowerControlMode,
  powerResumeMode PowerResumeMode,
  ul-DeltaSIR UL-DeltaSIR,
  ul-DeltaSIR-after UL-DeltaSIR-after,
  iE-Extensions ProtocolExtensionContainer {{ CM-PatternInformationItem-CompressedModePrep-ExtIEs }} OPTIONAL,
  ...
}

CM-PatternInformationItem-CompressedModePrep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
*****
--
-- COMPRESSED MODE READY FDD
--
*****

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

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

```

```

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

-----
-- COMPRESSED MODE COMMIT FDD
-----

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

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

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

-----
-- COMPRESSED MODE FAILURE FDD
-----

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

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

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

-----
-- COMPRESSED MODE CANCEL FDD
-----

```



```

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

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

CompressedModeCancel-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 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,
    -- R3-001469,CR112r1
    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      PUSCH-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}} OPTIONAL,
    ...
}

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}} OPTIONAL,
    ...
}

```

```

PhysicalSharedChannelReconfigurationFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
-- R3-001450,CR158
  { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }+
  { 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 ::= {
  ...
}

-- R3-001540,CR158
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,
-- R3-001528,CR121r1
    maxCTFC-1,
    maxNrOfTFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCodeGroups,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
-- R3-001528,CR121r1
    maxNrOfTFCI2Combs-1,
maxCTFC-DCH-1,
maxCTFC-DSCH-1,
    maxNrOfSF,
-- R3-001609,CR146r1
    maxTGPS7
FROM NBAP-Constants

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

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

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

-- R3-001604,CR68r10
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,
    -- R3-001309,CR125
    v1,
    ...
}

```

```

-- R3-001604,CR68r10

```

```

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
-- =====

-- R3-001591,CR147r2
BCCH-ModificationTime ::= INTEGER (0..5112047)
-- Time = BCCH-ModificationTime * 82
-- Range 0 to 408894, step 82
-- All even 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-ActivatedOrAlocated,  
nodeB-Resources-unavailable,  
insufficient-physical-channel-resources,  
measurement-not-supported-for-the-object,  
--R3-00126209,CR93r32  
macrodiversity-combining-resources-not-availablepossible,  
reconfiguration-not-allowed,  
requested-configuration-not-supported,  
synchronisation-failure,  
sIB-Origination-in-Node-B-not-Supported,  
unspecified,  
priority-transport-channel-established,  
--R3-001230,CR87r2  
bCCH-scheduling-error,  
-- R3-001640,CR149r2  
measurement-temporarily-not-available,  
-- R3-001231,CR88r2  
no-closed-loop-timing-adjustment-mode-configured,  
-- R3-001609,CR146r1  
invalid-CM-settings,  
...  
}  
  
CauseTransport ::= ENUMERATED {  
transport-link-failure,  
transmission-port-not-available,  
transport-resource-unavailable,  
unspecified,  
...
```

```

}

CCTrCH-ID ::= INTEGER (0..15)

-- R3-001604,CR68r10
CDSUBChannelNumbers ::= BIT STRING (SIZE (12))

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

-- R3-001609,CR146r1
CFNOFFSET ::= INTEGER (0..255)

-- R3-001604,CR68r10
Channel-Assignment-Indication ::= ENUMERATED {
    cA-Active,
    cA-Inactive
}

ChipOffset ::= INTEGER (0..38399)
-- Unit Chip

C-ID ::= INTEGER (0..65535)

-- R3-001231,CR88r2
ClosedLoopTimingAdjustmentMode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
    SEQUENCE {
        dl-Cost      INTEGER (0..65535),
        -- R3-001469,CR112r1
        ul-Cost      INTEGER (0..65535)
    }

CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iscp,
    -- R3-001604,CR68r10
    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,
-- R3-001604,CR68r10
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)

-- R3-001609,CR146r1
Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD ::= ENUMERATED {
    on,
    off
}
-- on=deactivate

CompressedModeMethod ::= ENUMERATED {
none,
puncturing,
half-SF,
higher-Layer-Scheduling,
...
}
none = restore the normal mode

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

-- R3-001575,CR107r3
ConstantValue ::= INTEGER (-10..10)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB

-- R3-001604,CR68r10
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
-- =====

-- R3-001614,CR133r2
DCH-CombinationInd ::= INTEGER (0..255)

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

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

```

```

-- R3-001476,CR150r1
DedicatedMeasurementObjectType ::= ENUMERATED {
  r1,
  r1s,
  all-r1,
  all-r1s,
  ...
}

DedicatedMeasurementType ::= ENUMERATED {
  sir,
  sir-error,
  transmitted-code-power,
  rscp,
  --R3-001130,CR84r1
  round-trip-time,
  -- R3-001484,CR118r1
  rx-timing-deviation,
  ...
}

DedicatedMeasurementValue ::= CHOICE {
  sIR-Value SIR-Value,
  sIR-ErrorValue SIR-Error-Value,
  transmittedCodePowerValue Transmitted-Code-Power-Value,
  rSCP RSCP-Value,
  --R3-001130,CR84r1
  roundTripTime Round-Trip-Time-Value,
  -- R3-001484,CR118r1
  rxTimingDeviationValue Rx-Timing-Deviation-Value,
  ...
}

-- R3-001604,CR68r10
Detected-PCPCH-access-preambles ::= INTEGER (0..240)
-- According to mapping in [4]

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

-- R3-001609,CR146r1
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
-- R3-001590,CR96r5
DLPowerAveragingWindowSize ::= INTEGER (1..60)
DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --
-- R3-001453,CR159
DL-TimeslotISCP ::= INTEGER (0..91)
-- R3-001489,CR128r1
DL-TPC-Pattern01Count ::= INTEGER (0..30,...)
-- R3-001609,CR146r1
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)
-- R3-001445,CR154
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [7]{TS-25-211} --
```

```
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
-- R3-001283,CR135
    step-size1-5,
    step-size2,
    ...
}
```

```
-- R3-001489,CR128r1
FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS,
    ...
}
```

```
FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lower priority, 15=higher priority --
```

```
FrameOffset ::= INTEGER (0..255)
```

```
-- =====
-- G
-- =====
```

```
-- R3-001609,CR146r1
GapLength ::= INTEGER (1..14)
```

```
GapDuration ::= INTEGER (1..144)
GapPeriod ::= INTEGER (0..255)
-- Unit Frame
```

```
GapPositionMode ::= ENUMERATED {
```

```

    fixed,
    flexible,
    ...
}

-- =====
-- H
-- =====

-- =====
-- I
-- =====

IB-SG-DATA ::= BIT STRING

-- R3-001469,CR112r1
IB-SG-POS ::= INTEGER (0..204664)
-- 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,
    ...
}

-- R3-001609,CR146r1
ITPPRM ::= ENUMERATED {
```

```

    mode-0,
    mode-1
}

-- =====
-- J
-- =====

-- =====
-- K
-- =====

-- =====
-- L
-- =====

Local-Cell-ID ::= INTEGER (0..268435455)

-- =====
-- M
-- =====

-- R3-001278,CR132
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)

-- R3-001604,CR68r10
Max-Number-of-PCPCHes ::= INTEGER (1..64)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

-- R3-001640,CR149r2
MeasurementAvailabilityIndicator ::= ENUMERATED {
    measurementAvailable,
    measurementnotAvailable
}

--R3-001132,CR83r1
MeasurementFilterCoefficient ::= INTEGER (1..256)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
-- =====

-- R3-001604,CR68r10
NEOT ::= INTEGER (0..8)

NFmax ::= INTEGER (1..64)

-- R3-001255,CR89r3
N-INSYNC-IND ::= INTEGER (1..256)

N-OUTSYNC-IND ::= INTEGER (1..256)

NodeB-CommunicationContextID ::= INTEGER (0..1048575)

-- R3-001604,CR68r10
NStartMessage ::= INTEGER (1..8)

-- =====
-- O
-- =====

```

```
-- =====
-- P
-- =====
```

```
--R3-001138,CR91r1
```

```
PagingIndicatorLength ::= INTEGER (2|4|8)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
```

```
-- R3-001604,CR68r10
```

```
PCP-Length ::= ENUMERATED{
    v0,
    v8
}
```

```
-- R3-001609,CR146r1
```

```
PD ::= INTEGER(0..2047, ...)
```

```
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
}

-- R3-001609,CR146r1
PowerControlMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range 0dB .. +6dB, Step +0.25dB

-- R3-001590,CR96r5
PowerRaiseLimit ::= INTEGER (0..10)

-- R3-001609,CR146r1
PowerResumeMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PreambleSignatures ::= BIT STRING (SIZE (16))
-- R3-001445,CR154
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 [9]{25-213} --

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
-- =====

| -- R3-001565,CR119r2
QE-Selector ::= ENUMERATED {
|   selected-DCH,
|   non-selected-DCH
| }

-- =====
-- 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)
```

```
-- R3-001528,CR121r1
```

```
RefTFCNumber ::= INTEGER (0..315)
```

```
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,
    --R3-001130,CR84r1
    round-trip-time        Round-Trip-Time-IncrDecrThres,
    -- R3-001604,CR68r10
    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,
    --R3-001130,CR84r1
    round-trip-time                Round-Trip-Time-Value,
    -- R3-001484,CR118r1
    rx-timing-deviation          Rx-Timing-Deviation-Value,
    -- R3-001604,CR68r10
    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)

```

```

-- R3-001609,CR146r1
RPM ::= ENUMERATED {
  mode-0,
  mode-1
}

--R3-001130,CR84r1
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)
-- R3-001484,CR118r1
-- According to mapping in [5]25-225

RSCP-Value-IncrDecrThres ::= INTEGER (0..80)

-- R3-001233,CR92r2
RSSI-Value ::= INTEGER(0..6213)
-- R3-001484,CR118r1
-- According to mapping in [4]/[5]25-215/25-225

-- R3-001233,CR92r2
RSSI-Value-IncrDecrThres ::= INTEGER (0..620)

-- R3-001484,CR118r1
Rx-Timing-Deviation-Value ::= INTEGER (0..2047)

-- =====
-- S
-- =====

-- R3-001611,CR123r3
ScaledMaxAdjustmentPeriod ::= INTEGER(1..30050)
-- Unit FrameMaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledAdjustmentRatio ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

ScaledMaxAdjustmentStep ::= INTEGER(1..10)
-- Unit SlotMaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

-- R3-001609,CR146r1
ScramblingCodeChange ::= ENUMERATED {
  code change,
  no code change,
  ...
}

-- R3-001532,CR136r1
ScramblingCodeWordNumber ::= INTEGER (0..15255)

```

```
SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)

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

-- R3-001568,CR145r2
-- to do, This parameter is present in NBAP tabular but not defined in IE(TS25.433v3.0.0)
SFN ::= INTEGER (0..4095)

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

--R3-001230,CR87r2
SIB-DeletionIndicator ::= ENUMERATED {
noDeletion,
deletion,
...
}

SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
    ...
}

SIR-Error-Value ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value ::= INTEGER (0..63)
-- R3-001445,CR154
-- According to mapping in [4]/[5]25.215/25.225

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,
    ...
}

-- R3-001255,CR89r3
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,
...
}

-- R3-001609,CR146r1
TGD ::= INTEGER (0|7-15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

TGPRC ::= INTEGER (0|1-63)
-- 0 = infinity

TGPSI ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)
TGD ::= INTEGER (0..3839)

--R3-001138,CR91r1
TGL ::= INTEGER (3|4|7|10|14)ENUMERATED {
v3,
v4,
v7,
v10,
v14
}

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {

```

```

    ul,
    dl,
    ...
}

TimeSlot-ISCP-Value ::= INTEGER (0..81)
-- R3-001445,CR154
-- According to mapping in [5]25-225

TimeSlot-ISCP-Value-IncrDecrThres ::= INTEGER (0..80)

TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
    ...
}

ToAWE ::= INTEGER (0..2559)
-- Unit ms

ToAWS ::= INTEGER (0..1279)
-- Unit ms

-- R3-001609,CR146r1
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)
-- R3-001445,CR154
-- According to mapping in [4]/[5]25.215/25.225

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [4]/[5]25.215/25.225

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

TransmitDiversityIndicator ::= ENUMERATED {
  active,
  inactive,
  ...
}

-- R3-001528,CR121r1
TFCS ::= SEQUENCE {
  dSCHtFCSvalues CHOICE {
    no-Split-in-TFCI TFCS-TFCSList,
    split-in-TFCI SEQUENCE {
      transportFormatCombination-DCH TFCS-DCHList,
      signallingMethod CHOICE {
        tFCI-Range TFCS-TFC-MappingOnDSCHList,
        explicit TFCS-TFC-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 ::= {
  ...
}

-- R3-001528,CR121r1
TFCS-CTFC ::= INTEGER (01..maxCTFC1)

-- R3-001528,CR121r1
TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE {
    cTFC                TFCS-CTFCDCH,
    iE-Extensions       ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } }    OPTIONAL,
    ...
  }

TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001528,CR121r1
TFCS-CTFC-DCH ::= INTEGER (01..maxCTFC-DCH1)

TFCS-TFCMappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value    TFCS-MaxTFCI-field2-Value,
    cTFC-DSCH              TFCS-CTFCDSCH,
    iE-Extensions          ProtocolExtensionContainer { { TFCS-TFCMappingOnDSCHList-ExtIEs } }    OPTIONAL,
    ...
  }

TFCS-TFCMappingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001528,CR121r1
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs1544)

TFCS-CTFC-DSCH ::= INTEGER (01..maxCTFC-DSCH1)

TFCS-TFCDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH              TFCS-CTFCDSCH,
    iE-Extensions          ProtocolExtensionContainer { { TFCS-TFCDSCHList-ExtIEs } }    OPTIONAL,
    ...
  }

```

```

}
| TFCS-TFEDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
TransportFormatSet ::= SEQUENCE {
  dynamicParts      TransportFormatSet-DynamicPartList,
  semi-staticPart   TransportFormatSet-Semi-staticPart,
  iE-Extensions     ProtocolExtensionContainer { { TransportFormatSet-ExtIEs} }    OPTIONAL,
  ...
}
TransportFormatSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
  SEQUENCE {
    nrOfTransportBlocks      TransportFormatSet-NrOfTransportBlocks,
    transportBlockSize       TransportFormatSet-TransportBlockSize    OPTIONAL,
    -- This IE is only present if "Number of Transport Blocks" is greater than 0
    mode                     TransportFormatSet-ModeDP,
    iE-Extensions           ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs} }    OPTIONAL,
    ...
  }
TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
  SEQUENCE {
    transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval,
    iE-Extensions                 ProtocolExtensionContainer { { TransmissionTimeIntervalList-ExtIEs} }    OPTIONAL,
    ...
  }
TransmissionTimeIntervalList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
  transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval    OPTIONAL,
  -- This IE is mandatory if not defined sa dynamic parameter. Otherwise it is absent
  channelCoding                 TransportFormatSet-ChannelCodingType,
  codingRate                    TransportFormatSet-CodingRate                  OPTIONAL,
  -- This IE is only present if channelCoding is 'convolutional' or 'turbo'
  rateMatchingAttribute         TransportFormatSet-RateMatchingAttribute,
  cRC-Size                     TransportFormatSet-CRC-Size,
  mode                         TransportFormatSet-ModeSSP,
  iE-Extensions                 ProtocolExtensionContainer { { TransportFormatSet-Semi-staticPart-ExtIEs} }    OPTIONAL,
  ...
}

```

```

}

TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
    ...
}

TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}

TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    ...
}

TransportFormatSet-ModeDP ::= CHOICE {
    tdd          TransmissionTimeIntervallList,
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent
    --R3-001136,CR90r1
    notApplicable          NULL,
    ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
    tdd          TransportFormatSet-SecondInterleavingMode,
    --R3-001136,CR90r1
    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,
    ...
}

```

--R3-001197,CR100r1

```

TransportFormatSet-TransportBlockSize ::= INTEGER (10..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)

```

-- R3-001609,CR146r1

```

UL-DL-CompressedModeSelection ::= ENUMERATED {
    ul-only,
    dl-only,
    both,
    ...
}

```

-- R3-001609,CR146r1

```

UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}

```

```

Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling
}

```

```

UL-DeltaSIR ::= INTEGER (-60..100)

```

```

-- UL-DeltaSIR = DeltaSIR * 10

```

```

-- Unit dB, Range -6dB .. 10dB, Step 0.1dB

```

```

UL-DeltaSIR-after ::= INTEGER (-60..100)
UL-DeltaSIR = DeltaSIR * 10
Unit dB, Range -6dB .. 10dB, Step 0.1dB

UL-DPCCH-SlotFormat ::= INTEGER (0..5)

UL-SIR ::= INTEGER (-82..173)
-- R3-001445,CR154
-- According to mapping in [16]25.427

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
-- R3-001609, CR146r1
id-compressedModeCancellation INTEGER ::= 13
id-compressedModeCommandInit INTEGER ::= 14
id-compressedModePreparation INTEGER ::= 15
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
maxNrOfCMPatterns      INTEGER ::= 8
-- R3-001453,CR159
mmaxNrOfDLTSSs          INTEGER ::= 15
--R3-001127,CR104
maxNrOfDLCodes              INTEGER ::= 810
maxNrOfErrors               INTEGER ::= 25610
-- R3-001528,CR121r1
maxNrOfTFs                  INTEGER ::= 3210
maxNrOfTFCs                 INTEGER ::= 102410
maxNrOfRLs                  INTEGER ::= 1610
maxNrOfRLSets               INTEGER ::= maxNrOfRLs10
--R3-001192,CR109
maxNrOfDPCHs                INTEGER ::= 24010
maxNrOfSCCPCHs              INTEGER ::= 810
-- R3-001604,CR68r10
maxNrOfCPCHs                INTEGER ::= 10 -- temporary value
maxNrOfPCPCHs               INTEGER ::= 64
maxNrOfPRACHs          INTEGER ::= 10
maxNrOfDCHs                 INTEGER ::= 12810
maxNrOfDSCHs                INTEGER ::= 3210
maxNrOfFACHs                INTEGER ::= 810
--R3-001192,CR109
maxNrOfCCTrCHs              INTEGER ::= 1610
maxNrOfPDSCHs               INTEGER ::= 25610
maxNrOfPUSCHs               INTEGER ::= 25610
maxNrOfPDSCHSets            INTEGER ::= 25610
maxNrOfPUSCHSets            INTEGER ::= 25610
maxNrOfULTSs                INTEGER ::= 15
maxNrOfUSCHs                INTEGER ::= 3210
-- R3-001604,CR68r10
maxAPSigNum                  INTEGER ::= 16
maxNrOfSlotFormatsPRACHmaxSF      INTEGER ::= 810
maxCellInNodeB              INTEGER ::= 25610
maxCCPinNodeB               INTEGER ::= 25610
-- R3-001604,CR68r10
maxCPCHCell                  INTEGER ::= 64
-- R3-001528,CR121r1
maxCTFC-1                    INTEGER ::= 1677721510
maxLocalCellInNodeB         INTEGER ::= maxCellInNodeB10
-- R3-001604,CR68r10
maxNoofLen                   INTEGER ::= 7
maxRACHCell                  INTEGER ::= maxPRACHCell10
maxPRACHCell                 INTEGER ::= 1610
-- R3-001604,CR68r10

```

```

maxPCPCHCell          INTEGER ::= 64
maxSCCPCHCell         INTEGER ::= 3210
maxSCPICHCell         INTEGER ::= 3210
-- R3-001528,CR121r1
maxTTI-count          INTEGER ::= 410
maxIBSEG              INTEGER ::= 1610
maxIB                  INTEGER ::= 3210
maxFACHCell           INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell110
-- R3-001528,CR121r1
maxRateMatching       INTEGER ::= 25610
maxCodeNrComp-1       INTEGER ::= 25610
maxNrOfCodeGroups     INTEGER ::= 25610
maxNrOfTFClGroups     INTEGER ::= 25610
maxNrOfTFClCombs      INTEGER ::= 51210
maxNrOfTFCl2Combs     INTEGER ::= 102410
-- R3-001528,CR121r1
maxNrOfTFCl2Combs-1   INTEGER ::= 1023
maxCTFC-DCH-1         INTEGER ::= 10
maxCTFC-DSCH-1        INTEGER ::= 10
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
id-AICH-ParametersList-CTCH-ReconfRqstFDD  INTEGER ::= 2
-- R3-001476,CR150r1
id-AllRLItem-DM-Rprt                       INTEGER ::= 3
id-AllRLItem-DM-Rsp                       INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                   INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                   INTEGER ::= 6
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            |
| <del>-- R3-001527,CR137r1</del>                            |                           |
| <del>id-CommonTransportChannelType-CTCH-SetupRsp</del>     | <del>INTEGER ::= 39</del> |
| id-CommunicationControlPortID                              | INTEGER ::= 40            |
| <del>-- R3-001609,CR146r1</del>                            |                           |
| <del>id-CM-PatternInformationItem-CompressedModePrep</del> | <del>INTEGER ::= 41</del> |
| <del>id-CM-PatternInformationList-CompressedModePrep</del> | <del>INTEGER ::= 42</del> |
| id-ConfigurationGenerationID                               | INTEGER ::= 43            |
| id-CRNC-CommunicationContextID                             | INTEGER ::= 44            |
| id-CriticalityDiagnostics                                  | INTEGER ::= 45            |
| <del>-- R3-001204,CR97r1</del>                             |                           |
| <del>id-DCH-AddListIE-RL-ReconfReady</del>                 | <del>INTEGER ::= 46</del> |
| <del>id-DCH-AddListIE-RL-ReconfRsp</del>                   | <del>INTEGER ::= 47</del> |
| 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            |
| <del>-- R3-001204,CR97r1</del>                             |                           |
| <del>id-DCH-ModifyListIE-RL-ReconfReady</del>              | <del>INTEGER ::= 60</del> |
| <del>id-DCH-ModifyListIE-RL-ReconfRsp</del>                | <del>INTEGER ::= 61</del> |
| 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            |
| <del>-- R3-001476,CR150r1</del>                            |                           |
| <del>id-DedicatedMeasurementObjectType</del>               | <del>INTEGER ::= 66</del> |
| id-DedicatedMeasurementObjectType-DM-Rprt                  | INTEGER ::= 67            |
| id-DedicatedMeasurementObjectType-DM-Rqst                  | INTEGER ::= 68            |
| id-DedicatedMeasurementObjectType-DM-Rsp                   | INTEGER ::= 69            |

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| id-DedicatedMeasurementType                              | INTEGER ::= 70             |
| <del>-- R3-001350,CR103r1</del>                          |                            |
| <del>id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD</del> | <del>INTEGER ::= 71</del>  |
| id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD             | INTEGER ::= 72             |
| id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD          | INTEGER ::= 73             |
| <del>-- R3-001350,CR103r1</del>                          |                            |
| <del>id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD</del> | <del>INTEGER ::= 74</del>  |
| <del>id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD</del> | <del>INTEGER ::= 75</del>  |
| 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             |
| <del>-- R3-001350,CR103r1</del>                          |                            |
| <del>id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD</del> | <del>INTEGER ::= 80</del>  |
| 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            |
| <del>-- R3-001204,CR97r1</del>                           |                            |
| <del>id-DSCH-ModifyListIE-RL-ReconfReady</del>           | <del>INTEGER ::= 110</del> |
| <del>id-DSCH-ModifyListIE-RL-ReconfRsp</del>             | <del>INTEGER ::= 111</del> |
| id-DSCH-ModifyList-RL-ReconfPrepFDD                      | INTEGER ::= 112            |
| id-DSCH-ModifyList-RL-ReconfRqstFDD                      | INTEGER ::= 113            |
| <del>-- R3-001204,CR97r1</del>                           |                            |
| <del>id-DSCH-SetupListIE-RL-ReconfReady</del>            | <del>INTEGER ::= 114</del> |
| <del>id-DSCH-SetupListIE-RL-ReconfRsp</del>              | <del>INTEGER ::= 115</del> |
| id-FACH-InformationItem-AuditRsp                         | INTEGER ::= 116            |
| id-FACH-InformationItem-ResourceStatusInd                | INTEGER ::= 117            |

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|---|----------------------------|
| id-FACHItem-CTCH-SetupRsp                                   | INTEGER ::= 118            |
| <del>-- R3-001529,CR138r1</del>                             |                            |
| <del>id-FACH-ParametersList-CTCH-ReconfRqstFDD</del>        | <del>INTEGER ::= 119</del> |
| 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            |
| <del>-- R3-001611,CR123r3</del>                             |                            |
| id-MaxAdjustmentPeriod                                      | 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            |
| <del>-- R3-001497,CR124r1</del>                             |                            |
| id-NonCombiningOrFirstRLIENotPresentItem-RL-SetupFailureFDD | INTEGER ::= 141            |
| id-NonCombiningOrFirstRLIENotPresentItem-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            |
| <del>-- R3-001529,CR138r1</del>                             |                            |
| <del>id-PCH-Parameters-CTCH-ReconfRqstFDD</del>             | <del>INTEGER ::= 154</del> |
| 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            |

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-- R3-001529,CR138r1
id-PICH-Parameters-CTCH-ReconfRqstFDD INTEGER ::= 167
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-PRACH-ParametersList-CTCH-ReconfRqstFDD INTEGER ::= 174
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

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| 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            |
| <del>-- R3-001540,CR158</del>                                |                            |
| <del>id-RL-ReconfigurationFailureList-RL-ReconfFailure</del> | <del>INTEGER ::= 237</del> |
| 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            |

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| 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            |
| <del>-- R3-001350,CR103r1</del>                              |                            |
| <del>id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD</del>     | <del>INTEGER ::= 283</del> |
| id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD                 | INTEGER ::= 284            |
| id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD              | INTEGER ::= 285            |
| <del>-- R3-001350,CR103r1</del>                              |                            |
| <del>id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD</del>     | <del>INTEGER ::= 286</del> |
| <del>id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD</del>     | <del>INTEGER ::= 287</del> |
| 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            |
| <del>-- R3-001350,CR103r1</del>                              |                            |
| <del>id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD</del>     | <del>INTEGER ::= 292</del> |
| 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            |
| <del>-- R3-001204,CR97r1</del>                               |                            |
| <del>id-USCH-ModifyListIE-RL-ReconfReady</del>               | <del>INTEGER ::= 311</del> |
| <del>id-USCH-ModifyListIE-RL-ReconfRsp</del>                 | <del>INTEGER ::= 312</del> |
| <del>id-USCH-SetupListIE-RL-ReconfReady</del>                | <del>INTEGER ::= 313</del> |
| <del>id-USCH-SetupListIE-RL-ReconfRsp</del>                  | <del>INTEGER ::= 314</del> |
| <del>-- R3-001609,CR146r1</del>                              |                            |
| <del>id-Active-Pattern-Sequence-Information</del>            | <del>INTEGER ::= 315</del> |
| <del>-- R3-001529,CR138r1</del>                              |                            |
| <del>id-AICH-ParametersListIE-CTCH-ReconfRqstFDD</del>       | <del>INTEGER ::= 316</del> |

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| -- R3-001611,CR123r3                                     |                          |
| id-AdjustmentRatio                                       | INTEGER ::= 317          |
| -- R3-001476,CR150r1                                     |                          |
| id-AllRLItem-DM-Rqst                                     | INTEGER ::= 318          |
| id-AllRLItem-Set-DM-Rqst                                 | INTEGER ::= 319          |
| -- R3-001604,CR68r10                                     |                          |
| id-AP-AICH-InformationItem-AuditRsp                      | INTEGER ::= 320          |
| id-AP-AICH-InformationItem-ResourceStatusInd             | INTEGER ::= 321          |
| <del>id-AP-AICH-ParametersList-CTCH-ReconfRqstFDD</del>  | <del>INTEGER ::= 1</del> |
| id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD           | INTEGER ::= 322          |
| -- R3-001529,CR138r1                                     |                          |
| id-FACH-ParametersListIE-CTCH-ReconfRqstFDD              | INTEGER ::= 323          |
| -- R3-001540,CR158                                       |                          |
| 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          |
| -- R3-001604,CR68r10                                     |                          |
| id-CDCA-ICH-InformationItem-AuditRsp                     | INTEGER ::= 330          |
| id-CDCA-ICH-InformationItem-ResourceStatusInd            | INTEGER ::= 331          |
| <del>id-CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD</del> | <del>INTEGER ::= 1</del> |
| id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD          | INTEGER ::= 332          |
| -- R3-001231,CR88r2                                      |                          |
| id-Closed-Loop-Timing-Adjustment-Mode                    | INTEGER ::= 333          |
| -- R3-001529,CR138r1                                     |                          |
| id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD          | INTEGER ::= 334          |
| -- R3-001609,CR146r1                                     |                          |
| id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD  | INTEGER ::= 335          |
| -- R3-001604,CR68r10                                     |                          |
| 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          |
| -- R3-001604,CR68r9r10                                   |                          |
| id-CPCHListItem-CTCH-ReconfRqstFDD                       | INTEGER ::= 341          |
| id-CPCH-Parameters-CTCH-SetupRsp                         | INTEGER ::= 342          |
| id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD              | INTEGER ::= 343          |
| <del>id-CPCHItem-CTCH-SetupRsp</del>                     | <del>INTEGER ::= 1</del> |
| -- R3-001204,CR97r1                                      |                          |
| id-DCH-InformationResponseListIE-RL-ReconfReady          | INTEGER ::= 344          |
| id-DCH-InformationResponseListIE-RL-ReconfRsp            | INTEGER ::= 345          |
| -- R3-001350,CR103r1                                     |                          |
| 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          |

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| 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 |
| -- R3-001489,CR128r1                                       |                 |
| id-DL-TPC-Pattern01Count                                   | INTEGER ::= 358 |
| -- R3-001575,CR107r3                                       |                 |
| id-DPCHConstant  | INTEGER ::= 359 |
| -- R3-001204,CR97r1  |                 |
| id-DSCH-InformationResponseListIE-RL-ReconfReady           | INTEGER ::= 360 |
| id-DSCH-InformationResponseListIE-RL-ReconfRsp             | INTEGER ::= 361 |
| -- R3-001527,CR137r1                                       |                 |
| id-FACH-ParametersList-CTCH-SetupRsp                       | INTEGER ::= 362 |
| -- R3-001540,CR158   |                 |
| 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 |
| -- R3-001590,CR96r5  |                 |
| id-Limited-power-increase-information-Cell-SetupRqstFDD    | INTEGER ::= 369 |
| -- R3-001640,CR149r2                                       |                 |
| id-MeasurementAvailableItem-CommonMeasurementReport        | INTEGER ::= 370 |
| id-MeasurementnotAvailableItem-CommonMeasurementReport     | INTEGER ::= 371 |
| id-MeasurementAvailableItem-DedicatedMeasurementReport     | INTEGER ::= 372 |
| id-MeasurementnotAvailableItem-DedicatedMeasurementReport  | INTEGER ::= 373 |
| -- R3-001527,CR137r1                                       |                 |
| id-PCH-Parameters-CTCH-SetupRsp                            | INTEGER ::= 374 |
| -- R3-001529,CR138r1                                       |                 |
| id-PCH-ParametersItem-CTCH-ReconfRqstFDD                   | INTEGER ::= 375 |
| -- R3-001604,CR68r10                                       |                 |
| 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 |
| -- R3-001529,CR138r1                                       |                 |
| id-PICH-ParametersItem-CTCH-ReconfRqstFDD                  | INTEGER ::= 380 |
| -- R3-001575,CR107r3                                       |                 |
| id-PRACHConstant   | INTEGER ::= 381 |
| -- R3-001529,CR138r1                                       |                 |
| id-PRACHListIE-CTCH-ReconfRqstFDD                          | INTEGER ::= 382 |
| -- R3-001529,CR138r1                                       |                 |
| id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD               | INTEGER ::= 383 |
| -- R3-001575,CR107r3                                       |                 |
| id-PUSCHConstant   | INTEGER ::= 384 |
| -- R3-001527,CR137r1                                       |                 |
| id-RACH-Parameters-CTCH-SetupRsp                           | INTEGER ::= 385 |
| -- R3-001540,CR158   |                 |
| id-RLSpecificCauseItem-RL-AdditionFailureFDD               | INTEGER ::= 386 |
| id-RLSpecificCauseItem-RL-AdditionFailureTDD               | INTEGER ::= 387 |
| id-RLSpecificCauseItem-RL-ReconfFailure                    | INTEGER ::= 388 |



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| id-RLSpecificCauseItem-RL-SetupFailureFDD                  | INTEGER ::= 389 |
| id-RLSpecificCauseItem-RL-SetupFailureTDD                  | INTEGER ::= 390 |
| -- R3-001529,CR138r1                                       |                 |
| id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD                | INTEGER ::= 391 |
| -- R3-001540,CR158   |                 |
| id-SetSpecificCauseItem-PSCH-ReconfFailureTDD              | INTEGER ::= 392 |
| -- R3-001255,CR89r3  |                 |
| id-Synchronisation-Configuration-Cell-ReconfRqst           | INTEGER ::= 393 |
| id-Synchronisation-Configuration-Cell-SetupRqst            | INTEGER ::= 394 |
| -- R3-001609,CR146r1                                       |                 |
| id-Transmission-Gap-Pattern-Sequence-Information           | INTEGER ::= 395 |
| -- R3-001350,CR103r1                                       |                 |
| 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 |
| -- R3-001540,CR158   |                 |
| id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD         | INTEGER ::= 408 |
| id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD         | INTEGER ::= 409 |
| -- R3-001204,CR97r1  |                 |
| id-USCH-InformationResponseListIE-RL-ReconfReady           | INTEGER ::= 410 |
| id-USCH-InformationResponseListIE-RL-ReconfRsp             | INTEGER ::= 411 |

END