

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

TSGRP#9(00)0389

Title: Agreed CRs to TS 25.433

Source: TSG-RAN WG3

Agenda item: 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Num	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Num
R3-002382	25.433	247	3	Updated NBAP UnSync RL Reconfiguration Procedure	F	agreed	3.2.0	3.3.0
R3-002385	25.433	248	1	Combined ASN.1 definition based on agreed CRs	F	agreed	3.2.0	3.3.0

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	247_{r3}
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
Current Version: 3.2.0		
For submission to: RAN#9 <small>list expected approval meeting # here</small>	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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

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

Source: R-WG3 **Date:** 03/09/00

Subject: Updated NBAP Unsynchronised RL Reconfiguration Procedure (Optional IEs).

Work item:

Category: <small>(only one category shall be marked with an X)</small>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
--	--	-----------------	--

Reason for change: Procedure Text needed updating to ensure handling of all optional IEs was included. The structure is changed to enhance clarity.

[R1: A number of corrections/clarifications, after suggestions from Ericsson.](#)
[R2: Further corrections from Ericsson.](#)

Without this CR, the specification will be unclear and incomplete.

Clauses affected: 8.3.2

Other specs affected:	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:
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Other comments: Care must be taken when implementing this and other R3 CRs to this procedure – the structure of this CR is assumed to take precedence.



help.doc

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

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

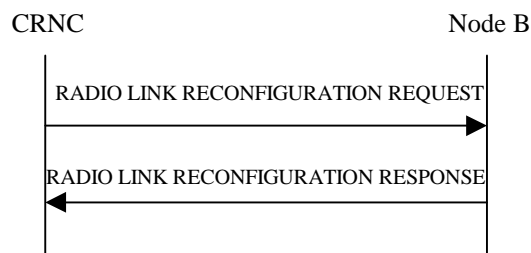


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

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 any DCHs to Modify IEs then the Node B shall treat them each as follows:

- If the ~~RADIO LINK RECONFIGURATION REQUEST message~~ DCHs to Modify IE 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 ~~DCHs to Modify IE 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 ~~DCHs to Modify IE 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 ~~DCHs to Modify IE RADIO LINK RECONFIGURATION REQUEST message~~ includes ~~a DCHs to Modify IE with~~ multiple *DCH Specific Info* IEs then the Node B shall treat the DCHs in the *DCHs to Modify IE* as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the ~~RADIO LINK RECONFIGURATION REQUEST message~~ DCHs to Modify IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs ~~to be modified~~, the Node B shall apply the new *FP Mode* in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the ~~*DCHs to Modify IE RADIO LINK RECONFIGURATION REQUEST* message~~ includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs ~~to be modified~~, the Node B shall apply the new *ToAWS* in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the ~~*DCHs to Modify IE RADIO LINK RECONFIGURATION REQUEST* message~~ includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs ~~to be modified~~, the Node B shall apply the new *ToAWE* in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- ~~[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CcTrCH Id IE for the DL of a DCH to be modified, the Node B shall apply the new CcTrCH Id in the Downlink of this DCH in the new configuration.]~~
- ~~[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CcTrCH Id IE for the UL of a DCH to be modified, the Node B shall apply the new CcTrCH Id in the Uplink of this DCH in the new configuration.]~~

DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH to be Added IEs 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 DCHs in the new configuration. In particular:

- If ~~at the RADIO LINK RECONFIGURATION REQUEST message includes a~~ *DCHs to Add IE* ~~with includes~~ multiple *DCH Specific Info* IEs ~~then the DCH Combination Indicator IE~~ for a DCH to be added, the Node B shall treat the DCHs in the *DCHs to Add IE* as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Node B shall use the Transport channel BER from that DCH ~~shall be as~~ the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ~~ref.~~ [16]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].
- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" ~~shall be used for as~~ the QE in the UL data frames, ~~ref.~~ [16]. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ~~ref.~~ [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ~~ref.~~ [16].
- ~~[TDD - For USCHs with the QE-Selector IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]~~
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received *Frame Handling Priority* should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- ~~[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CcTrCH Id IE for the DL of a DCH to be modified, the Node B shall apply the new CcTrCH Id in the Downlink of this DCH in the new configuration.]~~

~~- [TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CcTrCH Id IE for the UL of a DCH to be modified, the Node B shall apply the new CcTrCH Id in the Uplink of this DCH in the new configuration.]~~

DCH 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 ~~of~~ 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.

[FDD - Physical Channel Modification:]

~~[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an UL DPCH Information IE, then the Node B shall apply the parameters to the new configuration as follows:]~~

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

~~[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes a DL DPCH Information IE, then the Node B shall apply the parameters to the new configuration as follows:]~~

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

~~- [FDD - If the DL DPCH Information IE includes the TFCI Signalling Mode IE, the Node B shall use the use the information when building TFCIs in 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 DL DPCH Information IE RADIO LINK RECONFIGURATION REQUEST message includes the Limited Power Increase IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]~~

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

~~- [FDD - If the DL DPCH Information IE 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 DL DPCH Information IE includes the PDSCH RL ID IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]~~

~~[FDD - If the RADIO LINK RECONFIGURATION REQUEST contains the DL Code Information IE group for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]~~

~~[FDD - If the RADIO LINK RECONFIGURATION REQUEST contains the Transmission Gap Pattern Sequence Code Information IE for any of the allocated DL Channelisation code, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF=2 is active in the new configuration.]~~

~~[FDD - If the RL Information IE is present and includes the Transmission Gap Pattern Sequence Code Information IE the Node B shall store the new information about the Transmission Gap Pattern Sequences, and the Transmission Gap Pattern Sequence Codes to be used in the new Compressed Mode Configuration.] [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Transmission Gap Pattern Sequence Information IE the Node~~

~~B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration.]~~

[TDD - UL/DL CCTrCH Modification]

~~[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL CCTrCH to modify IE or DL CCTrCH to modify IE in the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]~~

[TDD - If the ~~RADIO LINK RECONFIGURATION REQUEST-UL/DL CCTrCH to modify IE~~ includes *TFCS* IE, and/or *Puncture limit* IE the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD – UL/DL CCTrCH Deletion]

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes any DSCH to modify, DSCH to add or DSCH to delete IEs, ~~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.]~~

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

~~If the requested modifications are allowed by the Node B, the Node B has successfully allocated the required resources, and changed to the new configuration it shall respond to the CRNC with the RADIO LINK RECONFIGURATION RESPONSE message.~~

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

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

Compressed Mode Preparation:

~~[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information IE* the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration.]~~

RL Information:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Information IE*, the Node B shall treat it as follows:

- [TDD - If the *DL Time Slot ISCP IE* is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]
- If the *RL Information IE* 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 *RL Information IE* includes the *Minimum DL Power IE*, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.
- [FDD- If the *RL Information IE* contains the *DL Code Information IE group* for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

~~[FDD- If the *RL Information IE* contains the *Transmission Gap Pattern Sequence Code Information IE* for any of the allocated DL Channelisation code, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]~~

~~[FDD- If the *RL Information IE* includes the *Transmission Gap Pattern Sequence Information IE*, the Node B shall apply the new *Transmission Gap Pattern Sequences* in the new *Compressed Mode* configuration.]~~

General

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 the RADIO LINK RECONFIGURATION RESPONSE message, the Node B shall include the *RL Information Response IE* for each affected Radio Link.

The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address IE* and the *Binding ID IE* for any Transport Channels being added or modified ~~when a new transport bearer on Iub is required~~. In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *DCH Information Response IE* 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, *RL Information Response IE group* shall be included only for one of the combined Radio Links.

8.3.5.3 Unsuccessful Operation

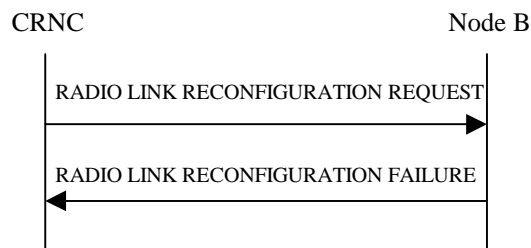


Figure 35: Unsyncronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of coordinated, DCHs requested to be set-up it shall regard the Unsyncronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsyncronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s) the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to “selected” the Node B shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

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

8.3.5.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

9.3.2 Elementary Procedure Definitions PDU Description for NBAP

```

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

-- R3-001917,CR197
NBAP-PDU-Discriptions -- { object identifier to be allocated }--
NBAP-PDU-Discriptions {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Descriptions (0) }
}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

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

    CommonTransportChannelSetupRequestFDD,
    CommonTransportChannelSetupRequestTDD,
    CommonTransportChannelSetupResponse,
    CommonTransportChannelSetupFailure,
    CommonTransportChannelReconfigurationRequestFDD,
    CommonTransportChannelReconfigurationRequestTDD,
    CommonTransportChannelReconfigurationResponse,
    CommonTransportChannelReconfigurationFailure,
    CommonTransportChannelDeletionRequest,
    CommonTransportChannelDeletionResponse,
    BlockResourceRequest,
    BlockResourceResponse,
    BlockResourceFailure,
    UnblockResourceIndication,
    AuditRequiredIndication,
    AuditRequest,
    AuditResponse,
    CommonMeasurementInitiationRequest,

```

```

CommonMeasurementInitiationResponse,
CommonMeasurementInitiationFailure,
CommonMeasurementReport,
CommonMeasurementTerminationRequest,
CommonMeasurementFailureIndication,
CellSetupRequestFDD,
CellSetupRequestTDD,
CellSetupResponse,
CellSetupFailure,
CellReconfigurationRequestFDD,
CellReconfigurationRequestTDD,
CellReconfigurationResponse,
CellReconfigurationFailure,
CellDeletionRequest,
CellDeletionResponse,
ResourceStatusIndication,
SystemInformationUpdateRequest,
SystemInformationUpdateResponse,
SystemInformationUpdateFailure,
-- R3-002305,CR187r3
ResetRequest,
ResetResponse,
RadioLinkSetupRequestFDD,
RadioLinkSetupRequestTDD,
RadioLinkSetupResponseFDD,
RadioLinkSetupResponseTDD,
RadioLinkSetupFailureFDD,
RadioLinkSetupFailureTDD,
RadioLinkAdditionRequestFDD,
RadioLinkAdditionRequestTDD,
RadioLinkAdditionResponseFDD,
RadioLinkAdditionResponseTDD,
RadioLinkAdditionFailureFDD,
RadioLinkAdditionFailureTDD,
RadioLinkReconfigurationPrepareFDD,
RadioLinkReconfigurationPrepareTDD,
RadioLinkReconfigurationReady,
RadioLinkReconfigurationFailure,
RadioLinkReconfigurationCommit,
RadioLinkReconfigurationCancel,
RadioLinkReconfigurationRequestFDD,
RadioLinkReconfigurationRequestTDD,
RadioLinkReconfigurationResponse,
RadioLinkDeletionRequest,
RadioLinkDeletionResponse,
DL-PowerControlRequest,
DedicatedMeasurementInitiationRequest,
DedicatedMeasurementInitiationResponse,
DedicatedMeasurementInitiationFailure,
DedicatedMeasurementReport,
DedicatedMeasurementTerminationRequest,
DedicatedMeasurementFailureIndication,
RadioLinkFailureIndication,

```

```

RadioLinkRestoreIndication,
CompressedModeCommand,
ErrorIndication,
PrivateMessage,
PhysicalSharedChannelReconfigurationRequestTDD,
PhysicalSharedChannelReconfigurationResponseTDD,
PhysicalSharedChannelReconfigurationFailureTDD
FROM NBAP-PDU-Contents

    id-audit,
    id-auditRequired,
    id-blockResource,
    id-cellDeletion,
    id-cellReconfiguration,
    id-cellSetup,
    id-commonMeasurementFailure,
    id-commonMeasurementInitiation,
    id-commonMeasurementReport,
    id-commonMeasurementTermination,
    id-commonTransportChannelDelete,
    id-commonTransportChannelReconfigure,
    id-commonTransportChannelSetup,
    id-compressedModeCommand,
    id-dedicatedMeasurementFailure,
    id-dedicatedMeasurementInitiation,
    id-dedicatedMeasurementReport,
    id-dedicatedMeasurementTermination,
    id-downlinkPowerControl,
    id-errorIndicationForDedicated,
    id-errorIndicationForCommon,
    id-physicalSharedChannelReconfiguration,
    id-privateMessageForDedicated,
    id-privateMessageForCommon,
    id-radioLinkAddition,
    id-radioLinkDeletion,
    id-radioLinkFailure,
    id-radioLinkRestoration,
    id-radioLinkSetup,
-- R3-002305,CR187r3
    id-reset,
    id-resourceStatusIndication,
    id-synchronisedRadioLinkReconfigurationCancellation,
    id-synchronisedRadioLinkReconfigurationCommit,
    id-synchronisedRadioLinkReconfigurationPreparation,
    id-systemInformationUpdate,
    id-unblockResource,
    id-unSynchronisedRadioLinkReconfiguration
FROM NBAP-Constants;

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

```

```

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

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

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

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

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

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

UnsuccessfulOutcome ::= SEQUENCE {

```

```

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

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

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

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

NBAP-ELEMENTARY-PROCEDURES-CLASS-1 NBAP-ELEMENTARY-PROCEDURE ::= {
  cellSetupFDD
  cellSetupTDD
  cellReconfigurationFDD
  cellReconfigurationTDD
  cellDeletion
  commonTransportChannelSetupFDD
  commonTransportChannelSetupTDD
  commonTransportChannelReconfigureFDD
  commonTransportChannelReconfigureTDD
  commonTransportChannelDelete
  audit
  blockResource
  radioLinkSetupFDD
  radioLinkSetupTDD
  systemInformationUpdate
  commonMeasurementInitiation
  radioLinkAdditionFDD
  radioLinkAdditionTDD
  radioLinkDeletion
  -- R3-002305,CR187r3
  reset
  synchronisedRadioLinkReconfigurationPreparationFDD
  synchronisedRadioLinkReconfigurationPreparationTDD
  unSynchronisedRadioLinkReconfigurationFDD
  unSynchronisedRadioLinkReconfigurationTDD
}

```

```

dedicatedMeasurementInitiation      |
physicalSharedChannelReconfiguration |
...                                  ,
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
resourceStatusIndication             |
auditRequired                        |
commonMeasurementReport              |
commonMeasurementTermination        |
commonMeasurementFailure            |
synchronisedRadioLinkReconfigurationCommit
synchronisedRadioLinkReconfigurationCancellation
radioLinkFailure                    |
radioLinkRestoration                |
dedicatedMeasurementReport          |
dedicatedMeasurementTermination     |
dedicatedMeasurementFailure         |
downlinkPowerControlFDD             |
compressedModeCommand               |
unblockResource                     |
errorIndicationForDedicated         |
errorIndicationForCommon            |
privateMessageForDedicated          |
privateMessageForCommon             |
...                                  ,
}

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

-- 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
}

-- R3-002305,CR187r3
-- *** Reset ***
reset NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      ResetRequest
  SUCCESSFUL OUTCOME      ResetResponse
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-reset, ddMode common }
  CRITICALITY             reject
}

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

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

```

```

    CRITICALITY          reject
}

-- *** RadioLinkAddition (TDD) ***
radioLinkAdditionTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      RadioLinkAdditionRequestTDD
    SUCCESSFUL OUTCOME      RadioLinkAdditionResponseTDD
    UNSUCCESSFUL OUTCOME    RadioLinkAdditionFailureTDD
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-radioLinkAddition, ddMode tdd }
    CRITICALITY             reject
}

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

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

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

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

-- *** UnSynchronisedRadioLinkReconfiguration (TDD) ***

```

```

unSynchronisedRadioLinkReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      RadioLinkReconfigurationRequestTDD
    SUCCESSFUL OUTCOME      RadioLinkReconfigurationResponse
    UNSUCCESSFUL OUTCOME    RadioLinkReconfigurationFailure
    MESSAGE DISCRIMINATOR   dedicated
    PROCEDURE ID            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    CRITICALITY             reject
}

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

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

-- Class 2

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

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

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

```

```

}

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

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

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

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

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

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

-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      DedicatedMeasurementReport

```

```

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

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

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

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

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

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

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

```

```

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

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

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

END

```

9.3.3 ~~NBAP~~ PDU Content Definitions

```

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

-- R3-001917,CR197
NBAP-PDU-Contents { object identifier to be allocated }
NBAP-PDU-Contents {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }
}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

```

```

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    -- R3-001914,CR181r1
    AICH-Power,
    AICH-TransmissionTiming,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    -- R3-002230,CR199r2
    BurstType,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,
    CriticalityDiagnostics,
    CPCH-Allowed-Total-Rate,
    CPCHScramblingCodeNumber,
    CPCH-UL-DPCCH-SlotFormat,
    CRNC-CommunicationContextID,
    DCH-ID,
    DedicatedChannelsCapacityConsumptionLaw,
    DedicatedMeasurementType,
    DedicatedMeasurementValue,
    -- R3-001900,CR191r1
    D-FieldLength,
    DiversityControlField,
    DiversityMode,
    DL-DPCH-SlotFormat,
    DL-or-Global-CapacityCredit,
    DL-Power,
    DLPowerAveragingWindowSize,
    DL-ScramblingCode,
    DL-TimeslotISCP,
    DL-TPC-Pattern01Count,

```



```

DPCH-ID,
DSCH-ID,
-- R3-002206,CR200r1
to do
DSCH-TFS,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset,
-- R3-001978,CR185r2
IB-OC-ID,
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,
-- R3-002230,CR199r2
MidambleShiftAndBurstType,
-- R3-002289,CR177r3
MinimumDL-PowerCapability,
MinSpreadingFactor,
MinUL-ChannelisationCodeLength,
MultiplexingPosition,
NEOT,
NFmax,
N-INSYNC-IND,
N-OUTSYNC-IND,
NodeB-CommunicationContextID,
NStartMessage,
PagingIndicatorLength,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PCP-Length,
PDSCH-CodeMapping,
PDSCHSet-ID,
PDSCH-ID,
PICH-Mode,
-- R3-001914,CR181r1
PICH-Power,
PowerAdjustmentType,
PowerOffset,
PowerRaiseLimit,

```

```

PRACH-Midamble,
PreambleSignatures,
PreambleThreshold,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
SCH-TimeSlot,
PunctureLimit,
PUSCHSet-ID,
PUSCH-ID,
QE-Selector,
RACH-SlotFormat,
RACH-SubChannelNumbers,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
ResourceOperationalState,
-- R3-002218,CR190r3
RetentionPriority,
RL-Set-ID,
RL-ID,
-- R3-001977,CR194r2
RSSI-Value,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
S-FieldLength,
SFN,
ShutdownTimer,
SIB-Originator,
SSDT-Cell-Identity,
SSDT-CellID-Length,
SSDT-Indication,
STTD-Indicator,
SSDT-SupportIndicator,
SyncCase,
T-Cell,
T-RLFFAILURE,
TDD-ChannelisationCode,
-- R3-002211,CR169r3
TDD-DPCHOffset,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,

```

```

ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,

TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
-- R3-001977,CR194r2
UL-InterferenceLevel,
UL-ScramblingCode,
-- R3-001977,CR194r2
UL-TimeslotISCP-Value,
-- R3-002085,CR208
UL-TimeslotISCP-Value-IncrDecrThres,
USCH-ID
FROM NBAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-Container{},
-- R3-002227,CR227
ProtocolIE-Single-Container{},
ProtocolIE-ContainerList{},
NBAP-PRIVATE-IES,
NBAP-PROTOCOL-IES,
NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers

id-Active-Pattern-Sequence-Information,
id-AdjustmentRatio,
id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rqst,
id-AllRLItem-Set-DM-Rqst,
id-AP-AICH-InformationItem-AuditRsp,
id-AP-AICH-InformationItem-ResourceStatusInd,
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CauseLevel-PSCH-ReconfFailureTDD,

```

```

id-CauseLevel-RL-AdditionFailureFDD,
id-CauseLevel-RL-AdditionFailureTDD,
id-CauseLevel-RL-ReconfFailure,
id-CauseLevel-RL-SetupFailureFDD,
id-CauseLevel-RL-SetupFailureTDD,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-CDCA-ICH-InformationItem-AuditRsp,
id-CDCA-ICH-InformationItem-ResourceStatusInd,
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
id-C-ID,
id-Closed-Loop-Timing-Adjustment-Mode,
id-CombiningItem-RL-AdditionFailureFDD,
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rqst,
id-CommonMeasurementObjectType-CM-Rsp,
id-CommonMeasurementType,
id-CommonPhysicalChannelID,
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,
-- R3-002305,CR187r3
  id-CommunicationContextInfoItem-Reset,
  id-CommunicationContextItem-Reset,
  id-CommunicationControlPortID,
-- R3-002305,CR187r3
  id-CommunicationControlPortInfoItem-Reset,
  id-CommunicationControlPortItem-Reset,
  id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
  id-ConfigurationGenerationID,
  id-CPCH-InformationItem-AuditRsp,
  id-CPCH-InformationItem-ResourceStatusInd,
  id-CPCHItem-CM-Rprt,
  id-CPCHItem-CM-Rqst,
  id-CPCHItem-CM-Rsp,
  id-CPCHListItem-CTCH-ReconfRqstFDD,
  id-CPCH-Parameters-CTCH-SetupRsp,
  id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,
  id-CRNC-CommunicationContextID,

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

-- R3-002272,CR165r3

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id-DSCH-AddList-RL-ReconfRqstFDD,
id-DSCH-DeleteItem-RL-ReconfPrepFDD,
id-DSCH-DeleteItem-RL-ReconfRqstFDD,
id-DSCH-DeleteList-RL-ReconfPrepFDD,
-- R3-002272,CR165r3
id-DSCH-DeleteList-RL-ReconfRqstFDD,
id-DSCH-ID,
id-DSCH-information-AddList-RL-ReconfPrepTDD,
-- R3-002272,CR165r3
id-DSCH-Information-AddList-RL-ReconfRqstTDD,
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,
-- R3-002272,CR165r3
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,
-- R3-002272,CR165r3
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,
id-DSCH-InformationResponseListIE-RL-ReconfReady,
id-DSCH-InformationResponseListIE-RL-ReconfRsp,
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,
id-DSCH-InformationList-RL-SetupRqstFDD,
id-DSCH-InformationList-RL-SetupRqstTDD,
id-DSCH-ModifyItem-RL-ReconfPrepFDD,
id-DSCH-ModifyItem-RL-ReconfRqstFDD,
id-DSCH-ModifyList-RL-ReconfPrepFDD,
-- R3-002272,CR165r3
id-DSCH-ModifyList-RL-ReconfRqstFDD,
id-FACH-InformationItem-AuditRsp,
id-FACH-InformationItem-ResourceStatusInd,
id-FACHItem-CTCH-SetupRsp,
id-FACH-ParametersList-CTCH-ReconfRqstTDD,
id-FACH-ParametersList-CTCH-SetupRsp,
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,
id-GeneralCauseItem-PSCH-ReconfFailureTDD,
id-GeneralCauseItem-RL-AdditionFailureFDD,
id-GeneralCauseItem-RL-AdditionFailureTDD,
id-GeneralCauseItem-RL-ReconfFailure,
id-GeneralCauseItem-RL-SetupFailureFDD,
id-GeneralCauseItem-RL-SetupFailureTDD,
id-IndicationType-ResourceStatusInd,
id-Limited-power-increase-information-Cell-SetupRqstFDD,
id-Local-Cell-ID,
id-Local-Cell-InformationItem-AuditRsp,
id-Local-Cell-InformationItem-ResourceStatusInd,
id-Local-Cell-InformationItem2-ResourceStatusInd,
id-Local-Cell-InformationList-AuditRsp,
id-AdjustmentPeriod,
id-MaxAdjustmentStep,
id-MaximumTransmissionPower,

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id-MeasurementAvailableItem-CommonMeasurementReport,
 id-MeasurementnotAvailableItem-CommonMeasurementReport,
 id-MeasurementAvailableItem-DedicatedMeasurementReport,
 id-MeasurementnotAvailableItem-DedicatedMeasurementReport,
 id-MeasurementFilterCoefficient,
 id-MeasurementID,
 id-MIB-SIB-InformationList-SystemInfoUpdateRqst,
 id-NodeBInformation-AuditRep,
 id-No-DeletionItem-SystemInfoUpdate,
 id-No-FailureItem-ResourceStatusInd,
 id-Non-CombiningItem-RL-AdditionFailureFDD,
 id-Non-CombiningItem-RL-AdditionRspFDD,
 id-Non-CombiningItem-RL-AdditionRspTDD,
 id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,
 id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,
 id-NodeB-CommunicationContextID,
 id-P-CCPCH-InformationItem-AuditRsp,
 id-P-CCPCH-InformationItem-ResourceStatusInd,
 id-P-CPICH-InformationItem-AuditRsp,
 id-P-CPICH-InformationItem-ResourceStatusInd,
 id-P-SCH-InformationItem-AuditRsp,
 id-P-SCH-InformationItem-ResourceStatusInd,
 id-PCCPCH-Information-Cell-ReconfRqstTDD,
 id-PCCPCH-Information-Cell-SetupRqstTDD,
 id-PCH-InformationItem-ResourceStatusInd,
 id-PCHItem-CTCH-SetupRsp,
 id-PCH-Parameters-CTCH-ReconfRqstTDD,
 id-PCH-Parameters-CTCH-SetupRsp,
 id-PCH-ParametersItem-CTCH-ReconfRqstFDD,
 id-PCH-ParametersItem-CTCH-SetupRqstFDD,
 id-PCH-ParametersItem-CTCH-SetupRqstTDD,
 id-PCH-InformationItem-AuditRsp,
 id-PCPCH-InformationItem-AuditRsp,
 id-PCPCH-InformationItem-ResourceStatusInd,
 id-PCPCHItem-CTCH-SetupRqstFDD,
 id-PCPCH-ParametersList-CTCH-ReconfRqstFDD,
 id-PICH-ParametersItem-CTCH-ReconfRqstFDD,
 id-PICH-InformationItem-ResourceStatusInd,
 id-PD,
 id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,
 id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,
 id-PDSCHSets-AddList-PSCH-ReconfRqst,
 id-PDSCHSets-DeleteList-PSCH-ReconfRqst,
 id-PDSCHSets-ModifyList-PSCH-ReconfRqst,
 id-PICH-InformationItem-AuditRsp,
 id-PICH-Parameters-CTCH-ReconfRqstTDD,
 id-PowerAdjustmentType,
 id-PRACH-InformationItem-AuditRsp,
 id-PRACH-InformationItem-ResourceStatusInd,
 id-PRACHConstant,
 id-PRACHItem-CTCH-SetupRqstFDD,
 id-PRACHItem-CTCH-SetupRqstTDD,
 id-PRACHListIE-CTCH-ReconfRqstFDD,

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id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,
id-PrimarySCH-Information-Cell-ReconfRqstFDD,
id-PrimarySCH-Information-Cell-SetupRqstFDD,
id-PrimaryScramblingCode,
id-ProcedureScopeType-DL-PC-Rqst,
id-SCH-Information-Cell-ReconfRqstTDD,
id-SCH-Information-Cell-SetupRqstTDD,
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCHConstant,
id-PUSCHSets-AddList-PSCH-ReconfRqst,
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,
id-RACH-InformationItem-AuditRsp,
id-RACH-InformationItem-ResourceStatusInd,
id-RACHItem-CTCH-SetupRsp,
id-RACHItem-CM-Rprt,
id-RACHItem-CM-Rqst,
id-RACHItem-CM-Rsp,
id-RACH-Parameters-CTCH-SetupRsp,
id-RACH-ParametersItem-CTCH-SetupRqstFDD,
id-RACH-ParameterItem-CTCH-SetupRqstTDD,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
-- R3-002305,CR187r3
id-ResetIndicator,
id-RL-ID,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rqst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-AdditionRqstFDD,
id-RL-informationItem-RL-DeletionRqst,
id-RL-InformationItem-RL-FailureInd,
id-RL-InformationItem-RL-ReconfPrepFDD,
id-RL-InformationItem-RL-ReconfRqstFDD,
id-RL-InformationItem-RL-RestoreInd,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-AdditionRqstFDD,
id-RL-informationList-RL-DeletionRqst,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationList-RL-ReconfRqstFDD,
id-RL-InformationList-RL-SetupRqstFDD,
id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReady,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReady,

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id-RL-InformationResponseList-RL-ReconfRsp,
 id-RL-InformationResponseList-RL-SetupRspFDD,
 id-RL-InformationResponse-RL-AdditionRspTDD,
 id-RL-InformationResponse-RL-SetupRspTDD,
 id-RL-Information-RL-AdditionRqstTDD,
 id-RL-Information-RL-ReconfRqstTDD,
 id-RL-Information-RL-ReconfPrepTDD,
 id-RL-Information-RL-SetupRqstTDD,
 id-RLItem-DM-Rprt,
 id-RLItem-DM-Rqst,
 id-RLItem-DM-Rsp,
 id-RLItem-RL-FailureInd,
 id-RLItem-RL-RestoreInd,
 id-RL-ReconfigurationFailureItem-RL-ReconfFailure,
 id-RL-Set-InformationItem-DM-Rprt,
 id-RL-SetItem-DM-Rqst,
 id-RL-Set-InformationItem-DM-Rsp,
 id-RL-Set-InformationItem-RL-FailureInd,
 id-RL-Set-InformationItem-RL-RestoreInd,
 id-RL-SetItem-DM-Rprt,
 id-RL-SetItem-DM-Rsp,
 id-RL-SetItem-RL-FailureInd,
 id-RL-SetItem-RL-RestoreInd,
 id-RLSpecificCauseItem-RL-AdditionFailureFDD,
 id-RLSpecificCauseItem-RL-AdditionFailureTDD,
 id-RLSpecificCauseItem-RL-ReconfFailure,
 id-RLSpecificCauseItem-RL-SetupFailureFDD,
 id-RLSpecificCauseItem-RL-SetupFailureTDD,
 id-S-CCPCH-InformationItem-AuditRsp,
 id-S-CCPCH-InformationItem-ResourceStatusInd,
 id-S-CPICH-InformationItem-AuditRsp,
 id-S-CPICH-InformationItem-ResourceStatusInd,
 id-SCH-InformationItem-AuditRsp,
 id-SCH-InformationItem-ResourceStatusInd,
 id-S-SCH-InformationItem-AuditRsp,
 id-S-SCH-InformationItem-ResourceStatusInd,
 id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,
 id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,
 id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD,
 id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,
 id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,
 id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,
 id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,
 id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,
 id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,
 id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,
 id-SecondarySCH-Information-Cell-ReconfRqstFDD,
 id-SecondarySCH-Information-Cell-SetupRqstFDD,
 id-SegmentInformationListIE-SystemInfoUpdate,
 id-ServiceImpactingItem-ResourceStatusInd,
 id-SetSpecificCauseItem-PSCH-ReconfFailureTDD,
 id-SFN,
 id-ShutdownTimer,

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id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,
id-Synchronisation-Configuration-Cell-ReconfRqst,
id-Synchronisation-Configuration-Cell-SetupRqst,
id-SyncCase,
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,
id-T-Cell,
-- R3-002272,CR165r3
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,
id-TFCI2-BearerInformationResponse-RL-SetupRspFDD,
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,
id-Transmission-Gap-Pattern-Sequence-Information,
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,
id-TransmissionDiversityApplied,
id-UARFCNforNt,
id-UARFCNforNd,
id-UARFCNforNu,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,
id-UL-DPCH-InformationList-RL-SetupRqstTDD,
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,
id-USCH-information-AddList-RL-ReconfPrepTDD,
id-USCH-Information-AddList-RL-ReconfRqstTDD,
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,

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id-USCH-Information-ModifyList-RL-ReconfRqstTDD,
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,
id-USCH-InformationResponseListIE-RL-ReconfReady,
id-USCH-InformationResponseListIE-RL-ReconfRsp,
id-USCH-InformationResponseListIE-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,

maxNrOfCCTrCHs,
maxNrOfCodes,
maxNrOfCPCHs,
maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDLTSS,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPCPCHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSS,
maxNrOfUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
-- R3-002305,CR187r3
maxCommunicationContext,
maxLocalCellinNodeB,
maxNrOfSlotFormatsPRACH,
maxIB,
maxIBSEG
FROM NBAP-Constants;

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

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

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

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

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

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCH-CTCH-SetupRqstFDD,
    pRACH-parameters                PRACH-CTCH-SetupRqstFDD,
    pCPCHes-parameters              PCPCH-CTCH-SetupRqstFDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-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 }7
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset              FDD-S-CCPCH-Offset,
    dl-ScramblingCode              DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    tFCS                            TFCS,
    secondary-CCPCH-SlotFormat      SecondaryCCPCH-SlotFormat,
    tFCI-Presence                   TFCI-Presence  OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any value 8 to 17
    multiplexingPosition            MultiplexingPosition,
    powerOffsetInformation           PowerOffsetInformation-CTCH-SetupRqstFDD,
    sTTD-Indicator                  sTTD-Indicator,
    fACH-Parameters                 FACH-ParametersList-CTCH-SetupRqstFDD  OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    pCH-Parameters                 PCH-Parameters-CTCH-SetupRqstFDD  OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    iE-Extensions                   ProtocolExtensionContainer  { { Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs } }  OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

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    ...
}

PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
    p01-ForTFCI-Bits          PowerOffset,
    p03-ForPilotBits         PowerOffset,
    iE-Extensions            ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}

PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }-
    ...
}

PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportFormatSet           TransportFormatSet,
    toAWS                         ToAWS,
    toAWE                         ToAWE,
    pCH-Power                    DL-Power,
    pICH-Parameters              PICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,

```

```

    ...
}

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

PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    -- R3-001914,CR181r1
    pICH-Power                       DLPICH-Power,
    pICH-Mode                         PICH-Mode,
    sTTD-Indicator                   STTD-Indicator,
    iE-Extensions                    ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

PRACH-CTCH-SetupRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ PRACHIE-CTCH-SetupRqstFDD }}

PRACHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACHItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PRACHItem-CTCH-SetupRqstFDD PRESENCE mandatory }~
    ...
}

PRACHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    scramblingCodeNumber             ScramblingCodeNumber,
    tFCS                             TFCS,
    preambleSignatures               PreambleSignatures,
    allowedSlotFormatInformationList-CTCH-SetupRqstFDD,
    rACH-SubChannelNumbers           RACH-SubChannelNumbers,
    ul-punctureLimit                 PunctureLimit,
    preambleThreshold                PreambleThreshold,
    rACH-Parameters                  RACH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                    ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    rACHSlotFormat                   RACH-SlotFormat,

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```

    iE-Extensions
    OPTIONAL,
    ...
}

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

RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD }}

RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE RACH-ParametersItem-CTCH-SetupRqstFDD    PRESENCE mandatory }
    ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID                CommonTransportChannelID,
    transportFormatSet                       TransportFormatSet,
    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,
    DLR3-001914,CR181r1 AICH-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-ContainerProtocolIE-Single-Container {{ PCPCHIE-CTCH-SetupRqstFDD }}

PCPCHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCPCHItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE PCPCHItem-CTCH-SetupRqstFDD    PRESENCE optional }
    ...
}

PCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    cPCH-Parameters                        CPCH-Parameters-CTCH-SetupRqstFDD,

```

```

    iE-Extensions          ProtocolExtensionContainer { { PCPCHItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

CPCH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportFormatSet            TransportFormatSet,
    aPPreambleScramblingCode      CPCHScramblingCodeNumber,
    cDPreambleScramblingCode      CPCHScramblingCodeNumber,
    tFCS                          TFCS,
    cDSignatures                  PreambleSignatures          OPTIONAL,
    cdSubChannelNumbers           CDSubChannelNumbers        OPTIONAL,
    -- this IE may be present only if the CD Signatures is present --
    punctureLimit                 PunctureLimit,
    cPCH-UL-DPCCH-SlotFormat      CPCH-UL-DPCCH-SlotFormat,
    uL-SIR                        UL-SIR,
    initialDL-transmissionPower    DL-Power,
    maximumDLPower                DL-Power,
    minimumDLPower                DL-Power,
    pO2-ForTPC-Bits               PowerOffset,
    pO3-ForPilotBits              PowerOffset,
    fDD-TPC-DownlinkStepSize      FDD-TPC-DownlinkStepSize,
    nStartMessage                 NStartMessage,
    nEOT                           NEOT,
    channel-Assignment-Indication Channel-Assignment-Indication,
    cPCH-Allowed-Total-Rate        CPCH-Allowed-Total-Rate,
    pCPCHChannelInformationList    PCPCHChannelInformationList-CTCH-SetupRqstFDD,
    vCAMMapping-Information        VCAMMapping-InformationList-CTCH-SetupRqstFDD OPTIONAL,
    -- this IE is only present if the Channel Assignment Indication is equal to CA Active --
    aP-AICH-Parameters             AP-AICH-Parameters-CTCH-SetupRqstFDD,
    cdCA-ICH-Parameters            CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                  ProtocolExtensionContainer { { CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

PCPCHChannelInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPCPCHs)) OF PCPCHChannelInformationItem-CTCH-SetupRqstFDD

PCPCHChannelInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID        CommonPhysicalChannelID,
    cPCHScramblingCodeNumber       CPCHScramblingCodeNumber,
    dL-ScramblingCode              DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    pCP-Length                     PCP-Length,
    uCSM-Information               UCSM-Information-CTCH-SetupRqstFDD OPTIONAL,
    -- this IE is only present if the Channel Assignment Indication is equal to CA Inactive --
}

```



```

    iE-Extensions          ProtocolExtensionContainer { { PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength    MinUL-ChannelisationCodeLength,
    nFmax                              NFmax,
    channelRequestParameters          ChannelRequestParametersList-CTCH-SetupRqstFDD OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

ChannelRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF ChannelRequestParametersItem-CTCH-SetupRqstFDD

ChannelRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    aPPreambleSignature              APPreambleSignature,
    aPSubChannelNumber              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              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,
    -- R3-002260,CR220r1
    aP-AICH-Power                AICHDL-Power,
    cSICH-Power                  AICHDL-Power,
    -- R3-002319,CR238
    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,
    -- R3-002260,CR220r1
    cDCA-ICH-Power              AICHDL-Power,
    -- R3-002319,CR238
    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-ContainerProtocolIE-Single-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,
  -- R3-001921,CR173r1
  tFCI-Coding                               TFCI-Coding,
  punctureLimit                             PunctureLimit,
  secondaryCCPCH-parameterList              Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
  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-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}} OPTIONAL,
  ...
}

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

Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-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,
    -- R3-002230,CR199r2
    burstType                        BurstType,
    midambleShiftAndBurstType        MidambleShiftAndBurstType,
    tdd-PhysicalChannelOffset         TDD-PhysicalChannelOffset,
    repetitionPeriod                  RepetitionPeriod,
    repetitionLength                  RepetitionLength,
    s-CCPCH-Power                     DL-Power,
    fACH-ParametersList              FACH-ParametersList-CTCH-SetupRqstTDD OPTIONAL,
    pCH-Parameters                  PCH-Parameters-CTCH-SetupRqstTDD OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    iE-Extensions                     ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-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,
    -- R3-001921,CR173r1
    cCTrCH-ID                        CCTrCH-ID,
    dl-TransportFormatSet             TransportFormatSet,
    toAWS                              ToAWS,
    toAWE                              ToAWE,
    iE-Extensions                     ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}

PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

```

```

| -----
| }
|
PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
|   commonTransportChannelID          CommonTransportChannelID,
|   -- R3-001921,CR173r1
|   cCTrCH-ID                         cCTrCH-ID,
|   dl-TransportFormatSet             TransportFormatSet,
|   toAWS                             ToAWS,
|   toAWE                              ToAWE,
|   pICH-Parameters                   PICH-Parameters-CTCH-SetupRqstTDD,
|   iE-Extensions                     ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
|   ...
| }
|
PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
|   ...
| }
|
PICH-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
|   commonPhysicalChannelID           CommonPhysicalChannelID,
|   tdd-ChannelisationCode            TDD-ChannelisationCode,
|   timeSlot                          TimeSlot,
|   -- R3-002230,CR199r2
|   burstType                         BurstType OPTIONAL,
|   midambleShiftAndBurstType         MidambleShiftAndBurstType,
|   tdd-PhysicalChannelOffset         TDD-PhysicalChannelOffset,
|   repetitionPeriod                  RepetitionPeriod,
|   repetitionLength                  RepetitionLength,
|   pagingIndicatorLength             PagingIndicatorLength,
|   -- R3-001914,CR181r1
|   pICH-Power                        DLPICH-Power,
|   iE-Extensions                     ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
|   ...
| }
|
PICH-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
|   ...
| }
|
PRACH-CTCH-SetupRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-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,
|   -- R3-002184,CR221
|   tFCS                             TFCS,
|   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-ContainerProtocolIE-Single-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,
-- R3-002184,CR221
uL-TransportFormatSet      TransportFormatSet,
iE-Extensions                  ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs } }  OPTIONAL,
...
}

RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

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

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

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

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

```

```

    ...
}

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCHList-CTCH-ReconfRqstFDD,
    pRACH-parameters                PRACHList-CTCH-ReconfRqstFDD,
    cPCH-parameters                 CPCHList-CTCH-ReconfRqstFDD,
    ...
}

```



```

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

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

FACH-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-ContainerProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-ReconfRqstFDD }}

PCH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersItem-CTCH-ReconfRqstFDD    CRITICALITY reject    TYPE PCH-ParametersItem-CTCH-ReconfRqstFDD    PRESENCE mandatory }_
  ...
}

PCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonTransportChannelID    CommonTransportChannelID,
  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-ContainerProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-ReconfRqstFDD }}

PICH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PICH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }T
    ...
}

PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
-- R3-001883,CR192r1
    commonPhysicalTransportChannelID          CommonPhysicalTransportChannelID,
-- R3-001914,CR181r1
    pICH-Power                                DLPICH-Power,
    iE-Extensions                            ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

| PRACHList-CTCH-ReconfRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ PRACHListIEs-CTCH-ReconfRqstFDD }}

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

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

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

| PRACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

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

```

```

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

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

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

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

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

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

| AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}

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

AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-ParametersItem-CTCH-ReconfRqstFDD

AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    -- R3-001883,CR192r1
    commonPhysicalTransportChannelID          CommonPhysicalTransportChannelID,
    -- R3-001914,CR181r1
    aICH-Power                                  DLAICH-Power,
    iE-Extensions                              ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} }  OPTIONAL,
    ...
}

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

| CPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ CPCHListIE-CTCH-ReconfRqstFDD }}

```

```

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

CPCHListItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  CPCH-ParametersListItem-CTCH-ReconfRqstFDD CPCH-ParametersListItem-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-ContainerProtocolIE-Single-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 }T
  ...
}

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-ContainerProtocolIE-Single-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 }T
  ...
}

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

AP-AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalTransportChannelID CommonPhysicalTransportChannelID,
  ...
}

```

```

-- R3-002260,CR220r1
aP-AICH-Power          AICHDL-Power,
cSICH-Power            AICHDL-Power OPTIONAL,
iE-Extensions          ProtocolExtensionContainer { { AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}

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

CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-ContainerProtocolIE-Single-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 {
-- R3-001883,CR192r1
commonPhysicalTransportChannelID          CommonPhysicalTransportChannelID,
-- R3-002260,CR220r1
cDCA-ICH-Power          AICHDL-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-ContainerProtocolIE-Single-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,
    pR3-001914,CR181r1ICH-Power          DLPICH-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}}
    ...
}

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}}
    ...
}

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}}
    ...
}

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-ContainerProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID      id-Cell-InformationItem-AuditRsp      CRITICALITY  ignore      TYPE      Cell-InformationItem-AuditRsp      PRESENCE      optional }7
    ...
}

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-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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 }T
    ...
}

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-ContainerProtocolIE-Single-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 }T
    ...
}

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-ContainerProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}

```

```

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

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-ContainerProtocolIE-Single-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 }T
  ...
}

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-ContainerProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}

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

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-ContainerProtocolIE-Single-Container {{ PICH-InformationIE-AuditRsp }}
PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-InformationItem-AuditRsp CRITICALITY ignore TYPE PICH-InformationItem-AuditRsp PRESENCE mandatory }7
  ...
}
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-ContainerProtocolIE-Single-Container {{ FACH-InformationItemIE-
AuditRsp }}
FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-InformationItem-AuditRsp CRITICALITY ignore TYPE FACH-InformationItem-AuditRsp PRESENCE mandatory }7
  ...
}
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-ContainerProtocolIE-Single-Container {{ PRACH-InformationItemIE-
AuditRsp }}
PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-InformationItem-AuditRsp CRITICALITY ignore TYPE PRACH-InformationItem-AuditRsp PRESENCE mandatory }7
  ...
}
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-ContainerProtocolIE-Single-Container {{ RACH-InformationItemIE-
AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-AuditRsp CRITICALITY ignore TYPE RACH-InformationItem-AuditRsp PRESENCE mandatory }7
    ...
}

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-ContainerProtocolIE-Single-Container {{ AICH-InformationItemIE-
AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-InformationItem-AuditRsp CRITICALITY ignore TYPE AICH-InformationItem-AuditRsp PRESENCE mandatory }7
    ...
}

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-ContainerProtocolIE-Single-Container {{ PCPCH-InformationItemIE-
AuditRsp }}

```

```

PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-InformationItem-AuditRsp  CRITICALITY ignore TYPE PCPCH-InformationItem-AuditRsp  PRESENCE optional }7
  ...
}

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-ContainerProtocolIE-Single-Container {{ CPCH-InformationItemIE-
AuditRsp }}

CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-InformationItem-AuditRsp  CRITICALITY ignore TYPE CPCH-InformationItem-AuditRsp  PRESENCE optional }7
  ...
}

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-ContainerProtocolIE-Single-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 }7
  ...
}

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-ContainerProtocolIE-Single-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 }T
    ...
}

```

```

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-ContainerProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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-ContainerProtocolIE-Single-Container {{ Local-Cell-
InformationItemIE-AuditRsp }}

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

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
    local-Cell-ID                Local-Cell-ID,
    dl-or-global-capacityCredit  DL-or-Global-CapacityCredit,
    ul-capacityCredit            UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw,
    maximumDL-PowerCapability      MaximumDL-PowerCapability    OPTIONAL,
    -- R3-001911,CR182r1
    minSpreadingFactor            MinSpreadingFactor          OPTIONAL,
    -- R3-002289,CR177r3
    minimumDL-PowerCapability      MinimumDL-PowerCapability    OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer  {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}    OPTIONAL,
    ...
}

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

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

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

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-MeasurementID          CRITICALITY reject          TYPE      MeasurementID          PRESENCE mandatory
    }|
}

```

```

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

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

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

Cell-CM-Rqst ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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    } |
    -- R3-002209,CR222r1
    { ID    id-CommonMeasurementObjectType-CM-Rsp    CRITICALITY ignore                TYPE    CommonMeasurementObjectType-CM-Rsp    PRESENCE
    mandatoryoptional    } |
    { ID    id-SFN                            CRITICALITY ignore                TYPE    SFN                            PRESENCE optional    } |
    { ID    id-CriticalityDiagnostics            CRITICALITY ignore                TYPE    CriticalityDiagnostics            PRESENCE optional    },
    ...
}

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

CommonMeasurementObjectType-CM-Rsp ::= CHOICE {

```

```

    cell                Cell-CM-Rsp,
    rACH                RACH-CM-Rsp,
    cPCH                CPCH-CM-Rsp,
    ...
}

| Cell-CM-Rsp ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-Container {{ CPCHIE-CM-Rsp }}

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

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

```

```

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

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

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

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

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

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

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

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

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

CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
    cell                Cell-CM-Rprt,

```



```

    rACH                RACH-CM-Rprt,
    cPCH                CPCH-CM-Rprt,
    ...
}

Cell-CM-Rprt ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ CellIE-CM-Rprt }}

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

CellItem-CM-Rprt ::= SEQUENCE {
  measurementAvailabilityIndicator    MeasurementAvailabilityIndicator-CommonMeasurementReport,
  iE-Extensions                      ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}    OPTIONAL,
  ...
}

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

RACH-CM-Rprt ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ RACHIE-CM-Rprt }}

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

RACHItem-CM-Rprt ::= SEQUENCE {
  measurementAvailabilityIndicator    MeasurementAvailabilityIndicator-CommonMeasurementReport,
  iE-Extensions                      ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }}    OPTIONAL,
  ...
}

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

CPCH-CM-Rprt ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ CPCHIE-CM-Rprt }}

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

-- R3-002156,CR219
CPCHItem-CM-Rprt ::= SEQUENCE {
  measurementAvailabilityIndicator    MeasurementAvailabilityIndicator-CommonMeasurementReport,
  iE-Extensions                      ProtocolExtensionContainer {{ CPCHItem-CM-Rprt-ExtIEs }}    OPTIONAL,
  ...
}

```

```

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

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

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

MeasurementAvailable-CommonMeasurementReport ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ MeasurementAvailableIE-CommonMeasurementReport }}

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

MeasurementAvailableItem-CommonMeasurementReport ::= SEQUENCE {
  commonmeasurementValue CommonMeasurementValue,
  ie-Extensions ProtocolExtensionContainer { { MeasurementAvailableItem-CommonMeasurementReport-ExtTIEs } } OPTIONAL,
  ...
}

MeasurementAvailableItem-CommonMeasurementReport-ExtTIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MeasurementnotAvailable-CommonMeasurementReport ::= ProtocolIE-ContainerProtocolIE-Single-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
  PRESENCE mandatory }|
{ ID id-T-Cell
  PRESENCE mandatory }|
{ ID id-UARFCNforNu
  PRESENCE mandatory }|
{ ID id-UARFCNforNd
  PRESENCE mandatory }|
{ ID id-MaximumTransmissionPower
  PRESENCE mandatory }|
{ ID id-Closed-Loop-Timing-Adjustment-Mode
  PRESENCE optional }|
{ ID id-PrimaryScramblingCode
  PRESENCE mandatory }|
-- R3-001883,CR192r1
{ ID id-DL-TPC-Pattern01Count
  PRESENCE mandatory }|
{ ID id-Synchronisation-Configuration-Cell-SetupRqst
  PRESENCE mandatory }|
{ ID id-DL-TPC-Pattern01Count
  PRESENCE mandatory }|
{ ID id-PrimarySCH-Information-Cell-SetupRqstFDD
  PRESENCE mandatory }|
{ ID id-SecondarySCH-Information-Cell-SetupRqstFDD
  PRESENCE mandatory }|
{ ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD
  PRESENCE mandatory }|
{ ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD
  PRESENCE optional }|
{ ID id-PrimaryCCPCH-Information-Cell-SetupRqstFDD
  PRESENCE mandatory }|
{ ID id-Limited-power-increase-information-Cell-SetupRqstFDD
  PRESENCE mandatory },
...
}

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

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

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

PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {

```

```

    commonPhysicalChannelID          CommonPhysicalChannelID,
    primarySCH-Power                  DL-Power,
    tSTD-Indicator                    TSTD-Indicator,
    iE-Extensions                     ProtocolExtensionContainer { { PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

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

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

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

SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-ContainerProtocolIE-Single-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,
    sTD-Indicator                STD-Indicator,
    iE-Extensions                ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
    powerRaiseLimit              PowerRaiseLimit,
    dLPowerAveragingWindowSize   DLPowerAveragingWindowSize,
    iE-Extensions                ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

```

```

{ ID id-Local-Cell-ID CRITICALITY reject TYPE Local-Cell-ID PRESENCE
mandatory }|
  { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE
mandatory }|
{ ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE
mandatory }|
{ ID id-UARFCNforNt CRITICALITY reject TYPE UARFCN PRESENCE
mandatory }|
{ ID id-CellParameterID CRITICALITY reject TYPE CellParameterID PRESENCE
mandatory }|
{ ID id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower PRESENCE
mandatory }|
{ ID id-TransmissionDiversityApplied CRITICALITY reject TYPE TransmissionDiversityApplied PRESENCE
mandatory }|
{ ID id-SyncCase CRITICALITY reject TYPE SyncCase PRESENCE
mandatory }|
-- R3-001883,CR192r1
{ ID id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst
PRESENCE mandatory }|
  { ID id-DPCHConstant CRITICALITY reject TYPE ConstantValue PRESENCE
mandatory }|
  { ID id-PUSCHConstant CRITICALITY reject TYPE ConstantValue PRESENCE
mandatory }|
  { ID id-PRACHConstant CRITICALITY reject TYPE ConstantValue PRESENCE
mandatory }|
{ ID id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst
PRESENCE mandatory }|
  { ID id-SCH-Information-Cell-SetupRqstTDD CRITICALITY reject TYPE SCH-Information-Cell-SetupRqstTDD
PRESENCE mandatory }|
  { ID id-PCCPCH-Information-Cell-SetupRqstTDD CRITICALITY reject TYPE PCCPCH-Information-Cell-SetupRqstTDD
PRESENCE mandatory }|
  { ID id-TimeSlotConfigurationList-Cell-SetupRqstTDD CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-SetupRqstTDD
PRESENCE mandatory },
  ...
}

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

SCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  syncCaseIndicator SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
  sCH-Power DL-Power,
  tSTD-Indicator TSTD-Indicator,
  iE-Extensions ProtocolExtensionContainer { { SCH-Information-Cell-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

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

```

```

SyncCaseIndicator-Cell-SetupRqstTDD-PSCH ::= ProtocolIE-ContainerProtocolIE-Single-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 }T
  ...
}

SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH ::= CHOICE {
  case1          Case1-Cell-SetupRqstTDD,
  case2          Case2-Cell-SetupRqstTDD,
  ...
}

Case1-Cell-SetupRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ Case1IE-Cell-SetupRqstTDD }}

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

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-ContainerProtocolIE-Single-Container {{ Case2IE-Cell-SetupRqstTDD }}

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

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

Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  tdd-PhysicalChannelOffset     TDD-PhysicalChannelOffset,
}

```



```

    repetitionPeriod          RepetitionPeriod,
    repetitionLength         RepetitionLength,
    pCCPCH-Power             PCCPCH-Power,
    blockSTTD-Indicator      BlockSTTD-Indicator,
    iE-Extensions            ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID   id-C-ID          CRITICALITY reject      TYPE C-ID          PRESENCE
    mandatory }|
    { ID   id-ConfigurationGenerationID CRITICALITY reject      TYPE ConfigurationGenerationID
    PRESENCE mandatory }|
    { ID   id-MaximumTransmissionPower CRITICALITY reject      TYPE MaximumTransmissionPower
    PRESENCE optional }|
    { ID   id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY reject      TYPE Synchronisation-Configuration-Cell-ReconfRqst
    PRESENCE optional }|
    { ID   id-PrimarySCH-Information-Cell-ReconfRqstFDD CRITICALITY reject      TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
    { ID   id-SecondarySCH-Information-Cell-ReconfRqstFDD CRITICALITY reject      TYPE SecondarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
    { ID   id-PrimaryCPICH-Information-Cell-ReconfRqstFDD CRITICALITY reject      TYPE PrimaryCPICH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
    { ID   id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD CRITICALITY reject      TYPE SecondaryCPICH-InformationList-Cell-
    ReconfRqstFDD PRESENCE optional }|
    { ID   id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD CRITICALITY reject      TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional },
    ...
}

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

```

```

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

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

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

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

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

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

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

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

SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-ContainerProtocolIE-Single-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 }7
    ...
}

```

```

}

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

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

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

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

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

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

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

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

CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-C-ID                  CRITICALITY    reject        TYPE    C-ID                PRESENCE
      mandatory }|
    { ID    id-ConfigurationGenerationID  CRITICALITY    reject        TYPE    ConfigurationGenerationID  PRESENCE
      mandatory }|
}

```

```

{ ID id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
  PRESENCE optional }|
{ 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 }|
{ 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-ContainerProtocolIE-Single-Container {{ No-FailureIE-ResourceStatusInd }}

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

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-ContainerProtocolIE-Single-Container
{{ Local-Cell-InformationItemIE-ResourceStatusInd }}

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

```



```

...
}

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
-- R3-001911,CR182r1
    maximumDL-PowerCapability          MaximumDL-PowerCapability          OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
    minSpreadingFactor                MinSpreadingFactor                OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
-- R3-002289,CR177r3
    minimumDL-PowerCapability      MinimumDL-PowerCapability,
    iE-Extensions                     ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

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

ServiceImpacting-ResourceStatusInd ::= ProtocolIE-ContainerProtocolIE-Single-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,
-- R3-001911,CR182r1
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,
pCPCCH-InformationList PCPCCH-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-ContainerProtocolIE-Single-Container
{{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

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

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  local-Cell-ID                    Local-Cell-ID,
  dl-or-global-capacityCredit      DL-or-Global-CapacityCredit      OPTIONAL,
  ul-capacityCredit                UL-CapacityCredit                OPTIONAL,
  maximum-DL-PowerCapability       MaximumDL-PowerCapability         OPTIONAL,
-- R3-001911,CR182r1
minSpreadingFactor             MinSpreadingFactor             OPTIONAL,
-- R3-002289,CR177r3
minimumDL-PowerCapability     MinimumDL-PowerCapability     OPTIONAL,
  iE-Extensions                    ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs } }  OPTIONAL,
  ...
}

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

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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,
  -- R3-001911,CR182r1
  resourceOperationalState ResourceOperationalState OPTIONAL,
  availabilityStatus AvailabilityStatus OPTIONAL, to do: FFS
  maximumDL-PowerCapability MaximumDL-PowerCapability, --to do: FFS
  minSpreadingFactor MinSpreadingFactor,
  primary-SCH-Information P-SCH-Information-ResourceStatusInd OPTIONAL,
  secondary-SCH-Information S-SCH-Information-ResourceStatusInd OPTIONAL,
  primary-CPICH-Information P-CPICH-Information-ResourceStatusInd OPTIONAL,
  secondary-CPICH-Information S-CPICH-InformationList-ResourceStatusInd OPTIONAL,
  primary-CCPCH-Information P-CCPCH-Information-ResourceStatusInd OPTIONAL,
  bCH-Information BCH-Information-ResourceStatusInd OPTIONAL,
  secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd OPTIONAL,
  pCH-Information PCH-Information-ResourceStatusInd OPTIONAL,
  pICH-Information PICH-Information-ResourceStatusInd OPTIONAL,
  fACH-InformationList FACH-InformationList-ResourceStatusInd OPTIONAL,
  pRACH-InformationList PRACH-InformationList-ResourceStatusInd OPTIONAL,
  rACH-InformationList RACH-InformationList-ResourceStatusInd OPTIONAL,
  aICH-InformationList AICH-InformationList-ResourceStatusInd OPTIONAL,
  pCPCH-InformationList PCPCH-InformationList-ResourceStatusInd OPTIONAL,
  cPCH-InformationList CPCH-InformationList-ResourceStatusInd OPTIONAL,
  aP-AICH-InformationList AP-AICH-InformationList-ResourceStatusInd OPTIONAL,
  cdCA-ICH-InformationList CDCA-ICH-InformationList-ResourceStatusInd OPTIONAL,
  sCH-Information SCH-Information-ResourceStatusInd OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

```

```

}
Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
P-SCH-Information-ResourceStatusInd ::= ProtocolIE-ContainerProtocolIE-Single-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 }T
    ...
}
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-ContainerProtocolIE-Single-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 }T
    ...
}
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-ContainerProtocolIE-Single-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 }T
    ...
}
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-ContainerProtocolIE-Single-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 }T
    ...
}

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-ContainerProtocolIE-Single-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 }T
    ...
}

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-ContainerProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}

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

```

```

| ...
| }

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-ContainerProtocolIE-Single-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 }T
| ...
| }

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-ContainerProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }}

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

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-ContainerProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }}

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

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-ContainerProtocolIE-Single-Container {{ FACH-
| InformationItemIE-ResourceStatusInd }}

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

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-ContainerProtocolIE-Single-Container {{ PRACH-
| InformationItemIE-ResourceStatusInd }}

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

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-ContainerProtocolIE-Single-Container {{ RACH-
InformationItemIE-ResourceStatusInd }}

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

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-ContainerProtocolIE-Single-Container {{ AICH-
InformationItemIE-ResourceStatusInd }}

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

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-ContainerProtocolIE-Single-Container {{ PCPCH-
InformationItemIE-ResourceStatusInd }}

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

```



```

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-ContainerProtocolIE-Single-Container {{ CPCH-
InformationItemIE-ResourceStatusInd }}

CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE CPCH-InformationItem-ResourceStatusInd    PRESENCE optional }7
    ...
}

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-ContainerProtocolIE-Single-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 }7
    ...
}

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-ContainerProtocolIE-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 }T
  ...
}

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-ContainerProtocolIE-Container {{ SCH-InformationIE-ResourceStatusInd }}

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

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

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

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

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

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

```

```

    { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory
    }|
    { ID id-BCCH-ModificationTime CRITICALITY reject TYPE BCCH-ModificationTime PRESENCE optional
    }|
    { ID id-MIB-SIB-InformationList-SystemInfoUpdateRqst CRITICALITY reject TYPE MIB-SIB-InformationList-SystemInfoUpdateRqst
    PRESENCE mandatory },
    ...
}

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

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

MIB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
    iB-Type IB-Type,
    -- R3-001978,CR185r2
    iB-OC-ID IB-OC-ID,
    deletionIndicator DeletionIndicator-SystemInfoUpdate,
    iE-Extensions ProtocolExtensionContainer { { MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

```

```

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

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

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

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
  iB-SG-POS                IB-SG-POS                OPTIONAL,
  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 } |
  -- R3-002272,CR165r3
  { ID id-TFCI2-Bearer-Information-RL-SetupRqstFDD CRITICALITY ignore TYPE TFCI2-BearerInformationResponse-RL-SetupRspFDD
  PRESENCE optional } |
  { ID id-RL-InformationList-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD PRESENCE
  mandatory } |
  { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
  PRESENCE optional } |
  { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE
  optional },
  ...
}

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

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
  ul-ScramblingCode UL-ScramblingCode,

```

```

minUL-ChannelisationCodeLength      MinUL-ChannelisationCodeLength,
maxNrOfUL-DPDCHs                    MaxNrOfUL-DPDCHs      OPTIONAL,
-- This IE is present only if "Min UL Channelisation Code length" equals to 4 --
ul-PunctureLimit                    PunctureLimit,
tFCS                                 TFCS,
ul-DPCCH-SlotFormat                 UL-DPCCH-SlotFormat,
ul-SIR-Target                       UL-SIR,
diversityMode                       DiversityMode,
-- R3-001900,CRI91r1
d-FieldLength                      D-FieldLength          OPTIONAL
-- This IE is present only if Feed Back mode diversity is activated --
sSDT-CellID-Length                 SSDT-CellID-Length    OPTIONAL,
s-FieldLength                      S-FieldLength         OPTIONAL,
iE-Extensions                      ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
tFCS                                TFCS,
dl-DPCH-SlotFormat                 DL-DPCH-SlotFormat,
tFCI-SignallingMode                TFCI-SignallingMode,
tFCI-Presence                      TFCI-Presence        OPTIONAL,
-- this IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16 --
multiplexingPosition              MultiplexingPosition,
pDSCH-RL-ID                       RL-ID                OPTIONAL,
-- This IE is present only if the DSCH Information group is present --
pDSCH-CodeMapping                 PDSCH-CodeMapping    OPTIONAL,
-- This IE is present only if the DSCH Information group is present --
powerOffsetInformation             PowerOffsetInformation-RL-SetupRqstFDD,
fdd-TPC-DownlinkStepSize          FDD-TPC-DownlinkStepSize,
limitedPowerIncrease               LimitedPowerIncrease,
iE-Extensions                      ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
pO1-ForTFCI-Bits                  PowerOffset,
pO2-ForTPC-Bits                   PowerOffset,
pO3-ForPilotBits                  PowerOffset,
iE-Extensions                      ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

```

```

}

DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD

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

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

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

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                            DCH-ID,
    ul-TransportFormatSet             TransportFormatSet,
    dl-TransportFormatSet             TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority                RetentionPriority,
    frameHandlingPriority             FrameHandlingPriority,
    qE-Selector                      QE-Selector,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                            DSCH-ID,
    -- R3-002206,CR200r1
    transportFormatSet              TransportFormatSet,
    dSCH-TFS                    DSCH-TFS,
    -- R3-002218,CR190r3
    retentionPriority                RetentionPriority,
    frameHandlingPriority             FrameHandlingPriority,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    iE-Extensions                    ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

```

```

...
}
-- R3-002272,CR165r3
TFCI2-Bearer-Information-RL-SetupRqstFDD ::= SEQUENCE {
  toAWS          ToAWS,
  toAWE          ToAWE,
  iE-Extensions ProtocolExtensionContainer { { TFCI2-Bearer-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

TFCI2-Bearer-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-RL-InformationItem-RL-SetupRqstFDD      CRITICALITY      notify      TYPE      RL-InformationItem-RL-SetupRqstFDD      PRESENCE
    mandatory}~
  ...
}

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

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

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

DL-CodeInformationItem-RL-SetupRqstFDD ::= SEQUENCE {
  dl-ScramblingCode      DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
}

```



```

transmissionGapPatternSequenceCodeInformation      TransmissionGapPatternSequenceCodeInformation      OPTIONAL,
-- This IE is present only if Downlink compressed mode method is set to "SF/2" in the Transmission Gap Pattern Sequence Information IE.
iE-Extensions                                     ProtocolExtensionContainer { { DL-CodeInformationItem-RL-SetupRqstFDD-ExtIes} } OPTIONAL,
...
}

DL-CodeInformationItem-RL-SetupRqstFDD-ExtIes NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RADIO LINK SETUP REQUEST TDD
--
-- *****

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

RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE CRNC-CommunicationContextID
      PRESENCE mandatory }|
    { ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD
      PRESENCE optional }|
    -- R3-001921,CR173r1
    { 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 }|
    -- R3-001921,CR173r1
    { 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-ContainerProtocolIE-Single-Container{{ UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD }}

```

```

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

UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS,
  tFCI-Coding TFCI-Coding,
  punctureLimit PunctureLimit,
  -- R3-001921,CR173r1
  uL-DPCH-Information UL-DPCH-InformationIE-RL-SetupRqstTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

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

UL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container{{ UL-DPCH-InformationIE-RL-SetupRqstTDD }}

-- R3-001921,CR173r1
UL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory
  } }
  ...
}

-- R3-002211,CR169r3
UL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationItem-RL-SetupRqstTDD

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  -- R3-002211,CR169r3
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  uL-Timeslot-InformationList-RL-SetupRqstTDD UL-Timeslot-InformationList-RL-SetupRqstTDD,
  dpch-ID DPCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  -- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tFCI-Presence TFCI-Presence,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

-- R3-002211,CR169r3
UL-Timeslot-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem-RL-SetupRqstTDD

UL-Timeslot-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    timeSlot TimeSlot,
-- R3-002230,CR199r2
    burstType BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence TFCI-Presence,
    uL-Code-InformationList-RL-SetupRqstTDD UL-Code-InformationList-RL-SetupRqstTDD,
    iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

UL-Code-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-ContainerProtocolIE-Single-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,
-- R3-002255,CR207r1
    cCTrCH-TPCList CCTrCH-TPCList-RL-SetupRqstTDD,

```

```

-- R3-001921,CR173r1
DL-DPCH-Information
  IE-Extensions
  ...
}
DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-002255,CR207r1
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD

CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCtRch-ID CCTrCH-ID,
  IE-Extensions ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container{{ DL-DPCH-InformationIE-RL-SetupRqstTDD }}

-- R3-001921,CR173r1
DL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItemList-RL-SetupRqstTDD PRESENCE mandatory
  }
  ...
}

-- R3-002211,CR169r3
DL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-SetupRqstTDD

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
-- R3-002211,CR169r3
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-InformationList-RL-SetupRqstTDD DL-Timeslot-InformationList-RL-SetupRqstTDD,
  dPCH-ID DPCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
-- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tFCI-Presence TFCI-Presence,
  IE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

-- R3-002211,CR169r3
DL-Timeslot-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationItem-RL-SetupRqstTDD

DL-Timeslot-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    timeSlot TimeSlot,
-- R3-002230,CR199r2
    burstType BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence TFCI-Presence,
    dL-Code-InformationList-RL-SetupRqstTDD DL-Code-InformationList-RL-SetupRqstTDD,
    iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

DL-Code-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { DL-Code-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

```

```

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority          OPTIONAL,
    -- R3-002185,CR203r1
    qE-Selector           QE-Selector          OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions         ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs } }  OPTIONAL,
    ...
}

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

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

DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS                 ToAWS,
    toAWE                 ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }  OPTIONAL,
    ...
}

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

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

USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    -- R3-002185,CR203r1
    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 }|
    -- R3-002272,CR165r3
    { ID id-TFCI2-BearerInformationResponse-RL-SetupRspFDD CRITICALITY ignore          TYPE TFCI2-BearerInformationResponse-RL-SetupRspFDD
    PRESENCE optional }|
    { ID id-CriticalityDiagnostics              CRITICALITY ignore          TYPE CriticalityDiagnostics              PRESENCE
    optional },
    ...
}

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

```

```

RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-ContainerProtocolIE-Single-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,
  -- R3-001977,CR194r2
  ul-InterferenceLevelUL-InterferenceLevel,
  rSSI RSSI-Value,
  diversityIndication DiversityIndication-RL-SetupRspFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspFDD OPTIONAL,
  sSDT-SupportIndicator SSdT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
  ...
}

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

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

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

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

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

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

NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container { { NonCombiningOrFirstRLIE-RL-SetupRspFDD } }

```



```

NonCombiningOrFirstRLIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD  CRITICALITY ignore  TYPE NonCombiningOrFirstRLItem-RL-SetupRspFDD  PRESENCE mandatory }_7
  ...
}

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

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

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

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

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

DSCH-InformationResponseList-RL-SetupRspFDD ::= ProtocolIE-ContainerProtocolIE-Single-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 }_7
  ...
}

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 ::= {
  ...
}

-- R3-002272,CR165r3
TFCI2-BearerInformationResponse-RL-SetupRspFDD ::= SEQUENCE {

```

```

bindingID                               BindingID,
transportLayerAddress                   TransportLayerAddress,
iE-Extensions                           ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-RL-SetupRspFDD-ExtIEs} }
OPTIONAL,
...
}

TFCI2-BearerInformationResponse-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

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

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

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

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

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

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

```

```

}

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

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

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

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-ContainerProtocolIE-Single-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 }T
    ...
}

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-ContainerProtocolIE-Single-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 }T
    ...
}

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-ContainerProtocolIE-Single-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 }7
    ...
}

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    }|
    -- R3-001913,CR170r1
    { ID    id-NodeB-CommunicationContextID                CRITICALITY    ignore    TYPE    NodeB-CommunicationContextID
    PRESENCE    conditionalmandatory    }|
    -- This IE is present if at least one of the radio links has been successfully set up
    { ID    id-CommunicationControlPortID                CRITICALITY    ignore    TYPE    CommunicationControlPortID
    PRESENCE    optional    }|
    { ID    id-CauseLevel-RL-SetupFailureFDD                CRITICALITY    ignore    TYPE    CauseLevel-RL-SetupFailureFDD
    PRESENCE    mandatory    }|

```

```

    { ID id-CriticalityDiagnostics
      PRESENCE optional },
    ...
  }

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

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

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

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

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-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}

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

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-ContainerProtocolIE-Single-Container
  {{ Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD }}

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespItem-RL-
  SetupFailureFDD PRESENCE mandatory}⌋
  ...
}

Unsuccessful-RL-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-ContainerProtocolIE-Single-Container
  {{ Successful-RL-InformationRespItemIE-RL-SetupFailureFDD }}

Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Successful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-
  SetupFailureFDD PRESENCE mandatory}⌋
  ...
}

Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID RL-ID,
  rL-Set-ID RL-Set-ID,
  ul-InterferenceLevelUL-InterferenceLevel,
  rSSIRSSI-Value,
  diversityIndication DiversityIndication-RL-SetupFailureFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  dSCH-InformationResponseList DSCH-InformationRespList-RL-SetupFailureFDD OPTIONAL,
  tFCI2-BearerInformationResponseTFCI2-BearerInformationResponse-RL-SetupFailureFDD OPTIONAL,
  sSDT-SupportIndicator SSDT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } }
  OPTIONAL,
  ...
}

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

DiversityIndication-RL-SetupFailureFDD ::= CHOICE {

```

```

    combining
    nonCombiningOrFirstRL
    ...
}

Combining-RL-SetupFailureFDD ::= ProtocolIE-ContainerProtocolIE-Single-ContainerSingle-Container {{ CombiningIE-RL-SetupFailureFDD }}

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

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

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

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-ContainerProtocolIE-Single-ContainerSingle-Container {{ NonCombiningOrFirstRLIE-RL-SetupFailureFDD }}

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

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

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

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

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

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

```

```

}
DSCH-InformationRespList-RL-SetupFailureFDD ::= ProtocolIE-ContainerProtocolIE-Single-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 ::= {
  ...
}
-- R3-002272,CR165r3
TFCI2-BearerInformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
  bindingID          BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions      ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-RL-SetupFailureFDD-ExtIEs} }
  OPTIONAL,
  ...
}
TFCI2-BearerInformationResponse-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-CauseLevel-RL-SetupFailureTDD
      PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics
      PRESENCE optional },
    ...
  }

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

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

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

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

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-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-SetupFailureTDD }}

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

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-ContainerProtocolIE-Single-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 } |
| -- R3-001883,CR192r1
| { ID id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD CRITICALITY reject TYPE Compressed-Mode-Deactivation-Flag-RL-
| AdditionRqstFDD PRESENCE optional }
| { ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD
| PRESENCE mandatory },
| ...
| }

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

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

RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {

```

```

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

RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  c-ID                 C-ID,
  frameOffset          FrameOffset,
  chipOffset           ChipOffset,
  diversityControlField DiversityControlField,
  dl-CodeInformationList DL-CodeInformationList-RL-AdditionRqstFDD,
  initialDL-TransmissionPower DL-Power OPTIONAL,
  maximumDL-Power      DL-Power OPTIONAL,
  minimumDL-Power      DL-Power OPTIONAL,
  sSDT-CellIdentity    SSDT-Cell-Identity OPTIONAL,
  transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
  -- R3-002258,CR205r2
  -- This IE is present unless Diversity Mode IE in UL-DPCH Information group is "none"
  iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-RL-AdditionRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

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

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

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

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

-- *****
--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

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

```

```

}

RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID
  PRESENCE mandatory }|
  { ID id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD CRITICALITY reject TYPE UL-CCTrCH-InformationList-RL-AdditionRqstTDD
  PRESENCE optional }|
  -- R3-001921,CR173r1
  { 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 }|
  -- R3-001921,CR173r1
  { 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,
  -- R3-001921,CR173r1
  uL-DPCH-Information UL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

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

-- R3-002211,CR169r3
UL-DPCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF ProtocolIE-ContainerProtocolIE-Single-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 {
  -- R3-002211,CR169r3
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,

```

```

    uL-Timeslot-InformationList-RL-AdditionRqstTDD          UL-Timeslot-InformationList-RL-AdditionRqstTDD,
    dPCH-ID          DPCH-ID,
    tdd-ChannelisationCode          TDD-ChannelisationCode,
-- R3-002230,CR199r2
    burstType          BurstType,
    midambleShiftAndBurstType          MidambleShiftAndBurstType,
    timeSlot          TimeSlot,
    tdd-PhysicalChannelOffset          TDD-PhysicalChannelOffset,
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

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

-- R3-002211,CR169r3
UL-Timeslot-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem-RL-AdditionRqstTDD

UL-Timeslot-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    timeSlot          TimeSlot,
-- R3-002230,CR199r2
    burstType          BurstType,
    midambleShiftAndBurstType          MidambleShiftAndBurstType,
    tFCI-Presence          TFCI-Presence,
    uL-Code-InformationList-RL-AdditionRqstTDD          UL-Code-InformationList-RL-AdditionRqstTDD,
    iE-Extensions          ProtocolExtensionContainer { { UL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

UL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationItem-RL-AdditionRqstTDD

UL-Code-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tdd-ChannelisationCode          TDD-ChannelisationCode,
    iE-Extensions          ProtocolExtensionContainer { { UL-Code-InformationItem-RL-AdditionRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

UL-Code-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {

```

```

cCTrCH-ID                                CCTrCH-ID,
-- R3-001921,CR173r1
DL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL,
  iE-Extensions                          ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

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

-- R3-002211,CR169r3
DL-DPCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF ProtocolIE-ContainerProtocolIE-Single-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 {
-- R3-002211,CR169r3
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-InformationList-RL-AdditionRqstTDD DL-Timeslot-InformationList-RL-AdditionRqstTDD,
  dPCH-ID DPCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
-- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tFCI-Presence TFCI-Presence,
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

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

-- R3-002211,CR169r3
DL-Timeslot-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationItem-RL-AdditionRqstTDD

DL-Timeslot-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
  timeSlot TimeSlot,
-- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,

```

```

tFCI-Presence          TFCI-Presence,
dL-Code-InformationList-RL-AdditionRqstTDD  DL-Code-InformationList-RL-AdditionRqstTDD,
iE-Extensions          ProtocolExtensionContainer { { DL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
...
}

DL-Timeslot-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DL-Code-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationItem-RL-AdditionRqstTDD

DL-Code-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
dPCH-ID                DPCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode,
iE-Extensions          ProtocolExtensionContainer { { DL-Code-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
...
}

DL-Code-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
  rL-ID                RL-ID,
  c-ID                 C-ID,
  frameOffset          FrameOffset,
  diversityControlField DiversityControlField,
  initial-DL-Transmission-Power DL-Power OPTIONAL,
  maximumDL-Power      DL-Power OPTIONAL,
  minimumDL-Power      DL-Power OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { { RL-information-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

RL-information-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RADIO LINK 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-ContainerProtocolIE-Single-Container {{ RL-
InformationResponseItemIE-RL-AdditionRspFDD }}

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

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    rL-Set-ID                  RL-Set-ID,
    -- R3-001977,CR194r2
ul InterferenceLevel          UL InterferenceLevel,
rSSI                          RSSI-Value,
    diversityIndication        DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator      SSdT-SupportIndicator,
    iE-Extensions              ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

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

Combining-RL-AdditionRspFDD ::= ProtocolIE-ContainerProtocolIE-Single-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
    iE-Extensions
    ...
}

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

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

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

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

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

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

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

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

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

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

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

```

```

    { ID      id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE CRNC-CommunicationContextID
    PRESENCE  mandatory }|
    { ID      id-RL-InformationResponse-RL-AdditionRspTDD  CRITICALITY ignore          TYPE RL-InformationResponse-RL-AdditionRspTDD
    PRESENCE  mandatory }|
    { ID      id-CriticalityDiagnostics                CRITICALITY ignore          TYPE CriticalityDiagnostics          PRESENCE
    optional  },
    ...
}

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

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

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

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

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    -- R3-001977,CR194r2
    ul-InterferenceLevel UL-InterferenceLevel,
    iSCP UL-TimeslotISCP-Value,
    iE-Extensions           ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

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

CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-CombiningItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE CombiningItem-RL-AdditionRspTDD    PRESENCE mandatory }7
    ...
}

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-ContainerProtocolIE-Single-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 }7
    ...
}

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-ContainerProtocolIE-Single-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 }7
    ...
}

```

```

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-ContainerProtocolIE-Single-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 }_7
    ...
}

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

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

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

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

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

RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID  CRITICALITY ignore  TYPE CRNC-CommunicationContextID  PRESENCE mandatory }|
    { ID id-CauseLevel-RL-AdditionFailureFDD  CRITICALITY ignore  TYPE CauseLevel-RL-AdditionFailureFDD  PRESENCE mandatory }|
}

```

```

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

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

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

GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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 ProtocolIE-Single-Container
{{ Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD }}

Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-
  AdditionFailureFDD PRESENCE mandatory} }
}

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

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

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

```

```

Combining-RL-AdditionFailureFDD ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-Container {{ Non-CombiningIE-RL-AdditionFailureFDD }}

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-AdditionFailureTDD }}

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

```



```

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-ContainerProtocolIE-Single-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 }T
    ...
}

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 } |
-- R3-002272,CR165r3
{ ID id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD CRITICALITY reject TYPE TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD
PRESENCE optional OPTIONAL } |
{ ID id-RL-InformationList-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD PRESENCE
optional } |
{ ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
PRESENCE optional },
...
}

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

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
ul-ScramblingCode UL-ScramblingCode OPTIONAL,
ul-SIR-Target UL-SIR OPTIONAL,
minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
maxNrOfUL-DPDCHs MaxNrOfUL-DPDCHs OPTIONAL,
-- This IE is present only if minUL-ChannelisationCodeLength equals to 4
ul-PunctureLimit PunctureLimit OPTIONAL,
tFCS TFCS OPTIONAL,
ul-DPCCH-SlotFormat UL-DPCCH-SlotFormat OPTIONAL,
-- R3-001900,CR191r1
diversityMode DiversityMode OPTIONAL,
sSDT-CellIDLength SSDT-CellID-Length OPTIONAL,
s-FieldLength S-FieldLength OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}

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

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

```

```

    pDSCH-RL-ID                RL-ID                OPTIONAL,
    limitedPowerIncrease       LimitedPowerIncrease OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    ul-TransportFormatSet     TransportFormatSet    OPTIONAL,
    dl-TransportFormatSet     TransportFormatSet    OPTIONAL,
    -- R3-002218,CR190r3
    retentionPriority        RetentionPriority    OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority  OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

```

```

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

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

DCH-AddSpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    qE-Selector            QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

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

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

DSCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-ContainerProtocolIE-Single-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,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority          OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority    OPTIONAL,
    toAWS                  ToAWS                    OPTIONAL,
    toAWE                   ToAWE                     OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} }    OPTIONAL,
    ...
}

```

```

}

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

DSCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-ContainerProtocolIE-Single-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,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    frameHandlingPriority   FrameHandlingPriority,
    toAWS                   ToAWS,
    toAWE                   ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-AddItem-RL-ReconfPrepFDD-ExtIEs } }    OPTIONAL,
    ...
}

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

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

-- R3-002272,CR165r3
TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD ::= CHOICE {
  addOrModify          AddOrModify-TFCI2-RL-ReconfPrepFDD,
  delete                NULLalltype,
    ...
}

```

```

}
AddOrModify-TFCI2-RL-ReconfPrepFDD ::= SEQUENCE {
    toAWS ToAWS,
    toAWE ToAWE,
    iE-Extensions ProtocolExtensionContainer { { AddOrModify-TFCI2-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}
AddOrModify-TFCI2-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-ContainerProtocolIE-Single-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
    -- R3-001900,CR191r1
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
    -- This IE is present if Diversity Mode IE in UL DPCH Information group is present, unless it is equal to "none"
    iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}
RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-CodeInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-CodeInformationItem-RL-ReconfPrepFDD
DL-CodeInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dl-scramblingCode DL-ScramblingCode OPTIONAL,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber OPTIONAL,
    transmissionGapPatternSequenceCodeInformation TransmissionGapPatternSequenceCodeInformation OPTIONAL,
    -- This IE is present only if Downlink compressed mode method is set to "SF/2" in the Transmission Gap Pattern Sequence Information IE.
    iE-Extensions ProtocolExtensionContainer { { DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

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

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

RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID  id-NodeB-CommunicationContextID  CRITICALITY  reject  TYPE NodeB-CommunicationContextID
  PRESENCE  mandatory  } |
  { ID  id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE UL-CCTrCH-InformationModifyList-RL-
ReconfPrepTDD  PRESENCE  optional  } |
  { ID  id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE UL-CCTrCH-InformationDeleteList-RL-
ReconfPrepTDD  PRESENCE  optional  } |
  { ID  id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DL-CCTrCH-InformationModifyList-RL-
ReconfPrepTDD  PRESENCE  optional  } |
  { ID  id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DL-CCTrCH-InformationDeleteList-RL-
ReconfPrepTDD  PRESENCE  optional  } |
  { ID  id-DCH-ModifyList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DCH-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-DCH-AddList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DCH-AddList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-DCH-DeleteList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DCH-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-DSCH-Information-ModifyList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-DSCH-information-AddList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DSCH-Information-AddList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-DSCH-Information-DeleteList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-USCH-Information-ModifyList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-USCH-information-AddList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE USCH-Information-AddList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-USCH-Information-DeleteList-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional  } |
  { ID  id-RL-Information-RL-ReconfPrepTDD  CRITICALITY  reject  TYPE RL-Information-RL-ReconfPrepTDD
  PRESENCE  optional  },
  ...
}

```

```

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

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

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

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

UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container { { UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD } }

-- R3-002211,CR169r3
UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-InformationAddItemListIE-RL-ReconfPrepTDD
  PRESENCE mandatory } }
  ...
}

-- R3-002211,CR169r3
UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfPrepTDD

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
-- R3-002211,CR169r3
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tdd-DPCHOffset            TDD-DPCHOffset,
  ul-Timeslot-InformationAddList-RL-ReconfPrepTDD  UL-Timeslot-InformationAddList-RL-ReconfPrepTDD,
  dpch-ID                   DPCH-ID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
R3-002230,CR199r2
  burstType                 BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot                  TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tFCI-Presence             TFCI-Presence,
  iE-Extensions             ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

```



```

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

-- R3-002211,CR169r3
UL-Timeslot-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD

UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot TimeSlot,
    -- R3-002230,CR199r2
    burstType BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence TFCI-Presence,
    uL-Code-InformationAddList-RL-ReconfPrepTDD UL-Code-InformationAddList-RL-ReconfPrepTDD,
    iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationAddItem-RL-ReconfPrepTDD

UL-Code-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-Code-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID CCTrCH-ID,
    tFCS TFCS OPTIONAL,
    tFCI-Coding TFCI-Coding OPTIONAL,
    punctureLimit PunctureLimit OPTIONAL,
    ul-DPCH-InformationAddList UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD OPTIONAL,
    ul-DPCH-InformationModifyList UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    ul-DPCH-InformationDeleteList UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

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

```

```
UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container { { UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD } }
```

```
-- R3-002211,CR169r3
UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-InformationModify-AddItemListIE-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 {
-- R3-002211,CR169r3
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  uL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD UL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD,
  dPCH-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
-- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tFCI-Presence TFCI-Presence,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
  OPTIONAL,
  ...
}
```

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

```
-- R3-002211,CR169r3
UL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD
```

```
UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlot TimeSlot,
-- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tFCI-Presence TFCI-Presence,
  uL-Code-InformationModify-AddList-RL-ReconfPrepTDD UL-Code-InformationModify-AddList-RL-ReconfPrepTDD,
  iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
  OPTIONAL,
  ...
}
```

```

UL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

UL-Code-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-Code-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container { { UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD } }

-- R3-002211,CR169r3
UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-InformationModify-ModifyListIEItem-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 {
-- R3-002211,CR169r3
    repetitionPeriod RepetitionPeriod OPTIONAL,
    repetitionLength RepetitionLength OPTIONAL,
    tdd-DPCHOffset TDD-DPCHOffset OPTIONAL,
    uL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    dPCH-ID DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
-- R3-002230,CR199r2
    burstType BurstType OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    timeSlot TimeSlot OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    repetitionPeriod RepetitionPeriod OPTIONAL,
    repetitionLength RepetitionLength OPTIONAL,
    tFCI-Presence TFCI-Presence OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

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

```

```

...
}
-- R3-002211,CR169r3
UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-
ReconfPrepTDD
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
timeSlot TimeSlot,
-- R3-002230,CR199r2
burstType BurstType OPTIONAL,
midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
tFCI-Presence TFCI-Presence OPTIONAL,
uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
dPCH-ID DPCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode,
iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container { { UL-DPCH-InformationModify-
DeleteListIEs-RL-ReconfPrepTDD } }
UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-InformationModify-DeleteListIE-RL-
ReconfPrepTDD PRESENCE mandatory } }
...
}
UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-DeleteItem-RL-
ReconfPrepTDD
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
dPCH-ID DPCH-ID,
iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,

```

```

    ...
}
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                     TFCS,
    tFCI-Coding              TFCI-Coding,
    punctureLimit            PunctureLimit,
    -- R3-002255,CR207r1
    cCTrCH-TPCList           CCTrCH-TPCAddList-RL-ReconfPrepTDD,
    dl-DPCH-InformationList  DL-DPCH-InformationAddList-RL-ReconfPrepTDD  OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
-- R3-002255,CR207r1
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container { { DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD } }

```

```

-- R3-002211,CR169r3
DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationAddItem-RL-ReconfPrepTDD
  PRESENCE mandatory }
  ...
}

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

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
-- R3-002211,CR169r3
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-InformationAddList-RL-ReconfPrepTDD DL-Timeslot-InformationAddList-RL-ReconfPrepTDD,
  dPCH-ID DPCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
-- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tFCI-Presence TFCI-Presence,
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

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

-- R3-002211,CR169r3
DL-Timeslot-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF DL-Timeslot-InformationAddItem-RL-ReconfPrepTDD

DL-Timeslot-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlot TimeSlot,
-- R3-002230,CR199r2
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tFCI-Presence TFCI-Presence,
  dL-Code-InformationAddList-RL-ReconfPrepTDD DL-Code-InformationAddList-RL-ReconfPrepTDD,
  iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

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

DL-Code-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationAddItem-RL-ReconfPrepTDD

```

```

DL-Code-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dpch-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions          ProtocolExtensionContainer { { DL-Code-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

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

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS                                OPTIONAL,
    tFCI-Coding              TFCI-Coding                        OPTIONAL,
    punctureLimit            PunctureLimit                    OPTIONAL,
    -- R3-002255,CR207r1
    cCTrCH-TPCList           CCTrCH-TPCModifyList-RL-ReconfPrepTDD OPTIONAL,
    dl-DPCH-InformationAddList DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD OPTIONAL,
    dl-DPCH-InformationModifyList DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    dl-DPCH-InformationDeleteList DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

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

CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD

CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

-- R3-002211,CR169r3
DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-AddItemIEs-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 {
```

```
-- R3-002211,CR169r3
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tdd-DPCHOffset            TDD-DPCHOffset,
  dL-Timeslot-InformationAddModify-AddList-RL-ReconfPrepTDD          DL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD,
  dPCH-ID                   DPCH-ID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
-- R3-002230,CR199r2
  burstType                 BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot                  TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tFCI-Presence             TFCI-Presence,
  iE-Extensions             ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
  OPTIONAL,
  ...
}
```

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

```
  ...
}
```

```
-- R3-002211,CR169r3
```

```
DL-Timeslot-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSS)) OF DL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD
```

```
DL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
```

```
  timeSlot                  TimeSlot,
-- R3-002230,CR199r2
  burstType                 BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tFCI-Presence             TFCI-Presence,
  dL-Code-InformationModify-AddList-RL-ReconfPrepTDD          DL-Code-InformationModify-AddList-RL-ReconfPrepTDD,
  iE-Extensions             ProtocolExtensionContainer { { DL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
  OPTIONAL,
  ...
}
```

```
DL-Timeslot-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
}
```

```
DL-Code-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationModify-AddItem-RL-ReconfPrepTDD
```

```
DL-Code-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
```

```
  dPCH-ID                   DPCH-ID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
  iE-Extensions             ProtocolExtensionContainer { { DL-Code-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
```



```

...
}

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

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

-- R3-002211,CR169r3
DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-ModifyItemIE-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 {
-- R3-002211,CR169r3
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-DPCHOffset TDD-DPCHOffset OPTIONAL,
  dL-Timeslot-InformationAddModify-ModifyList-RL-ReconfPrepTDD DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
  dPCH-ID DPCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
-- R3-002230,CR199r2
  burstType BurstType OPTIONAL,
  midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
  timeSlot TimeSlot OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
  OPTIONAL,
  ...
}

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

-- R3-002211,CR169r3
DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF DL-Timeslot-InformationModify-ModifyItem-RL-
ReconfPrepTDD

DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
-- R3-002230,CR199r2
  timeSlot TimeSlot,
  burstType BurstType OPTIONAL,

```

```

midambleShiftAndBurstType          MidambleShiftAndBurstType          OPTIONAL,
tFCI-Presence                       tFCI-Presence                  OPTIONAL,
dL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD          DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD          OPTIONAL,
iE-Extensions                       ProtocolExtensionContainer { { DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}

DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
dPCH-ID                             DPCH-ID,
tdd-ChannelisationCode              TDD-ChannelisationCode,
iE-Extensions                       ProtocolExtensionContainer { { DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}

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

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

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

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

DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
dPCH-ID                             DPCH-ID,
iE-Extensions                       ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}

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

DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
cCTrCH-ID                           CCTrCH-ID,

```

```

    iE-Extensions                               ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

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

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

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

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

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

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    ul-cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    dl-cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    ul-TransportFormatSet     TransportFormatSet        OPTIONAL,
    dl-TransportFormatSet     TransportFormatSet        OPTIONAL,
    -- R3-002218,CR190r3
    retentionPriority         RetentionPriority         OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority      OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs } }    OPTIONAL,
    ...
}

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

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

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

```

```

}

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

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

DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatS   TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    -- R3-002185,CR203r1
    qE-Selector           QE-Selector OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions         ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

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

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

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

DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID          OPTIONAL,
    transportFormatSet     TransportFormatSet  OPTIONAL,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority  OPTIONAL,
    frameHandlingPriority   FrameHandlingPriority  OPTIONAL,
    toAWS                  ToAWS                OPTIONAL,
    toAWE                  ToAWE                OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

```

```

}

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

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

DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cTrCH-ID               CTrCH-ID,
    transportFormatSet     TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    frameHandlingPriority   FrameHandlingPriority    OPTIONAL,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

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

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

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

USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet     TransportFormatSet    OPTIONAL,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority    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,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority       RetentionPriority,
    -- R3-002185,CR203r1
    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-ContainerProtocolIE-Single-Container {{ RL-
InformationResponseItemIE-RL-ReconfReady}}

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

RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
  rL-ID RL-ID,
  dCH-InformationResponseList-RL-ReconfReady DCH-InformationResponseList-RL-ReconfReady OPTIONAL,
  dSCH-InformationResponseList-RL-ReconfReady DSCH-InformationResponseList-RL-ReconfReady OPTIONAL,
  uSCH-InformationResponseList-RL-ReconfReady USCH-InformationResponseList-RL-ReconfReady OPTIONAL,
  -- R3-002272,CR165r3
  tFCI2-BearerInformationResponse tFCI2-tFCI2-BearerInformationResponse-RL-ReconfReady OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

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

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

```



```

-- R3-002272,CR165r3
TFCI2-BearerInformationResponse-RL-ReconfReady ::= SEQUENCE {
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-RL-ReconfReady-ExtIEs } }
    OPTIONAL,
    ...
}

TFCI2-BearerInformationResponse-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-CauseLevel-RL-ReconfFailure CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
    ...
}

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

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

GeneralCauseList-RL-ReconfFailure ::= ProtocolIE-ContainerProtocolIE-Single-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
    iE-Extensions
    ...
}
Cause,
ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs } } OPTIONAL,
}
GeneralCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
RLSpecificCauseList-RL-ReconfFailure ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-ReconfFailure }}
RLSpecificCauseIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-ReconfFailure
      PRESENCE mandatory }T
      CRITICALITY ignore TYPE RLSpecificCauseItem-RL-ReconfFailure
    ...
}
RLSpecificCauseItem-RL-ReconfFailure ::= SEQUENCE {
    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-ContainerProtocolIE-Single-Container {{ RL-
ReconfigurationFailureItemIE-RL-ReconfFailure}}
RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationFailureItem-RL-ReconfFailure
      PRESENCE mandatory }T
      CRITICALITY ignore TYPE RL-ReconfigurationFailureItem-RL-
ReconfFailure
    ...
}
RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEQUENCE {
    rL-ID RL-ID,
    cause Cause,
    iE-Extensions ProtocolExtensionContainer { { RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs } }
    OPTIONAL,
    ...
}
RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
-- *****
--
-- RADIO LINK RECONFIGURATION COMMIT
--
-- *****

```

```

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

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

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

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

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

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

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

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

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

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

```

```

    { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE
      mandatory } |
    { ID id-UL-DPCH-Information-RL-ReconfRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD PRESENCE
      optional } |
    { ID id-DL-DPCH-Information-RL-ReconfRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE
      optional } |
    { ID id-DCH-ModifyList-RL-ReconfRqstFDD CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfRqstFDD PRESENCE
      optional } |
    { ID id-DCH-AddList-RL-ReconfRqstFDD CRITICALITY reject TYPE DCH-AddList-RL-ReconfRqstFDD PRESENCE
      optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstFDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD PRESENCE
      optional } |
  -- R3-002272,CR165r3
  { 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,
  -- R3-002272,CR165r3
  pDSCH-CodeMapping PDSCH-CodeMapping OPTIONAL,
  pDSCH-RL-ID RL-ID OPTIONAL,
  limitedPowerIncrease LimitedPowerIncrease OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

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

```

```

}
...
}

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

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

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

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

DCH-ModifySpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    ul-TransportFormatSet     TransportFormatSet     OPTIONAL,
    dl-TransportFormatSet     TransportFormatSet     OPTIONAL,
    -- R3-002218,CR190r3
    retentionPriority        RetentionPriority        OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority   OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

```

```

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

DCH-AddSpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID DCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority RetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority,
    qE-Selector QE-Selector,
    iE-Extensions ProtocolExtensionContainer { { DCH-AddSpecificItem-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

-- R3-002272,CR165r3
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,
    -- R3-002218,CR190r3
    retentionPriority RetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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

```

```

}

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

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

DSCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  dl-TransportFormatSet TransportFormatSet,
  R3-002218,CRL90r3
  retentionPriority RetentionPriority,
  frameHandlingPriority FrameHandlingPriority,
  toAWS ToAWS,
  toAWE ToAWE,
  iE-Extensions ProtocolExtensionContainer { { DSCH-AddItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

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

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

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

RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE {

```

```

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

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

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

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

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

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

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

RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID          CRITICALITY reject          TYPE NodeB-CommunicationContextID
  PRESENCE mandatory } |
  { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          CRITICALITY notify          TYPE UL-CCTrCH-InformationModifyList-RL-
  ReconfRqstTDD          PRESENCE optional } |
  { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY notify          TYPE UL-CCTrCH-InformationDeleteList-RL-
  ReconfRqstTDD          PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          CRITICALITY notify          TYPE DL-CCTrCH-InformationModifyList-RL-
  ReconfRqstTDD          PRESENCE optional } |

```



```

    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE DCH-ModifyList-RL-ReconfRqstTDD
PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE DCH-AddList-RL-ReconfRqstTDD
PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE DCH-DeleteList-RL-ReconfRqstTDD
PRESENCE optional } |
-- R3-002272,CRI65r3
{ 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-ContainerProtocolIE-Single-Container {{ UL-
CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD}}

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

UL-CCTrCH-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-ContainerProtocolIE-Single-Container {{ UL-
CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD}}

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

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

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

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-ContainerProtocolIE-Single-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 CTrCH-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-ContainerProtocolIE-Single-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 CTrCH-ID,

```

```

    iE-Extensions                               ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

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

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

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

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

DCH-ModifySpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    ul-CCTrCH-ID              CCTrCH-ID                OPTIONAL,
    dl-CCTrCH-ID              CCTrCH-ID                OPTIONAL,
    ul-TransportFormatSet     TransportFormatSet       OPTIONAL,
    dl-TransportFormatSet     TransportFormatSet       OPTIONAL,
    -- R3-002218,CR190r3
    retentionPriority        RetentionPriority        OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority     OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

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

```

```

}
DCH-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-AddSpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstTDD
DCH-AddSpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    -- R3-002218,CR190r3
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    -- R3-002185,CR203r1
    qE-Selector           QE-Selector OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions         ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}
DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD
DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    iE-Extensions         ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
-- R3-002272,CR165r3
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,
    -- R3-002218,CR190r3
    retentionPriority       RetentionPriority OPTIONAL,
    frameHandlingPriority   FrameHandlingPriority OPTIONAL,
    toAWS                  ToAWS OPTIONAL,
    toAWE                  ToAWE OPTIONAL,

```

```


iE-Extensions
OPTIONAL,
...
}

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

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

DSCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {

dSCH-ID DSCH-ID,
cTrCH-ID CTrCH-ID,
transportFormatSet TransportFormatSet,
-- R3-002218,CR190r3
retentionPriority RetentionPriority,
frameHandlingPriority FrameHandlingPriority OPTIONAL,
toAWS ToAWS,
toAWE ToAWE,
iE-Extensions ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

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

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

DSCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {

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

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

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

USCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {

uSCH-ID USCH-ID,
cTrCH-ID CTrCH-ID OPTIONAL,
transportFormatSet TransportFormatSet OPTIONAL,
-- R3-002218,CR190r3
retentionPriority RetentionPriority OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}


```

```

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

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

USCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
uSCH-ID USCH-ID,
cTrCH-ID CTrCH-ID,
transportFormatSet TransportFormatSet,
R3-002218,CR190r3
retentionPriority RetentionPriority,
qE-Selector QE-Selector,
iE-Extensions ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

TimeslotISCPInfoList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) 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-ContainerProtocolIE-Single-Container {{RL-
InformationResponseItemIE-RL-ReconfRsp}}

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

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

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

```

```

...
}
DCH-InformationResponseList-RL-ReconfRsp ::= ProtocolIE-ContainerProtocolIE-Single-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 ::= {
  ...
}

-- R3-002272,CR165r3
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,


```



```

-----
}

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

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

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

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

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

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

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

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

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

```

```

    { ID      id-RL-informationList-RL-DeletionRqst          CRITICALITY    notify          TYPE  RL-informationList-RL-DeletionRqst          PRESENCE
      mandatory      } ,
    ...
  }

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

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

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

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

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

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

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

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

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

-- *****

```

```

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

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

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

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

DL-ReferencePowerInformationList-DL-PC-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-ContainerProtocolIE-Single-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
    }τ
    ...
}

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

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

-- *****

```

```

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

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

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

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

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

RL-DM-Rqst ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rqst }}

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

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

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

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

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

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

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

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

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

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

AllRL-DM-Rqst ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-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
    } |
    -- R3-002209,CR222r1
    { ID    id-DedicatedMeasurementObjectType-DM-Rsp    CRITICALITY    ignore    TYPE    DedicatedMeasurementObjectType-DM-Rsp    PRESENCE
    mandatoryoptional } |
    { ID    id-CFN    CRITICALITY    ignore    TYPE    CFN    PRESENCE optional
    } |
    { ID    id-CriticalityDiagnostics    CRITICALITY    ignore    TYPE    CriticalityDiagnostics    PRESENCE
    optional },
    ...
}

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

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

```

```

}
| RL-DM-Rsp ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ RLIE-DM-Rsp }}
|
RLIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-RLItem-DM-Rsp    CRITICALITY ignore  TYPE RLItem-DM-Rsp      PRESENCE mandatory }T
  ...
}
|
RLItem-DM-Rsp ::= SEQUENCE {
  rL-InformationList-DM-Rsp      RL-InformationList-DM-Rsp,
  iE-Extensions                  ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } }  OPTIONAL,
  ...
}
|
RLItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
|
RL-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-ContainerProtocolIE-Single-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 }T
  ...
}
|
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-ContainerProtocolIE-Single-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 }T
  ...
}
|
RL-SetItem-DM-Rsp ::= SEQUENCE {
  rL-Set-InformationList-DM-Rsp  RL-Set-InformationList-DM-Rsp,
  iE-Extensions                  ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }  OPTIONAL,
  ...
}
|
RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

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

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

RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
  rL-Set-ID                RL-Set-ID,
  dedicatedMeasurementValue DedicatedMeasurementValue,
  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-ContainerProtocolIE-Single-Container {{ RLIE-DM-Rprt }}

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

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

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

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

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

RL-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-ID                          RL-ID,

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

MeasurementAvailable-DedicatedMeasurementReport ::= ProtocolIE-ContainerProtocolIE-Single-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-ExtTIES } }      OPTIONAL,
  ...
}

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

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

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

MeasurementnotAvailableItem-DedicatedMeasurementReport ::= NULL

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

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

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

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

-- *****

```

```

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

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

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

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

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

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

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

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

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

| RL-RL-FailureInd ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ RLIE-RL-FailureInd }}

```

```

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

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-ContainerProtocolIE-Single-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 }T
  ...
}

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-ContainerProtocolIE-Single-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 }T
  ...
}

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-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerProtocolIE-Single-Container {{RL-InformationItemIE-RL-
RestoreInd}}

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

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

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

| RL-Set-RL-RestoreInd ::= ProtocolIE-ContainerProtocolIE-Single-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-ContainerProtocolIE-Single-Container {{ RL-Set-
InformationItemIE-RL-RestoreInd }}

RL-Set-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-RL-Set-InformationItem-RL-RestoreInd    CRITICALITY ignore    TYPE RL-Set-InformationItem-RL-RestoreInd PRESENCE mandatory }-
    ...
}

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

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

-- *****
--
-- COMPRESSED MODE COMMAND FDD
--
-- *****

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

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

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

-- *****
--
-- ERROR INDICATION
--
-- *****

ErrorIndication ::= SEQUENCE {

```



```

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

ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-CRNC-CommunicationContextID    CRITICALITY    ignore          TYPE    CRNC-CommunicationContextID    PRESENCE conditional } |
  -- This IE is only present when message is transmitted by a Node B on a signalling bearer corresponding to a communication control port --
  { ID    id-NodeB-CommunicationContextID    CRITICALITY    ignore          TYPE    NodeB-CommunicationContextID    PRESENCE conditional } |
  -- This IE is only present when message is transmitted by a RNC on a signalling bearer corresponding to a communication control port --
  { ID    id-Cause                           CRITICALITY    ignore          TYPE    Cause                           PRESENCE conditional } |
  -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
  { ID    id-CriticalityDiagnostics          CRITICALITY    ignore          TYPE    CriticalityDiagnostics          PRESENCE conditional },
  ...
}

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 } |
  -- R3-002211,CR169r3

```

{ ID id-SFN optional }	CRITICALITY	reject	TYPE	SFN	PRESENCE
{ ID id-PDSCHSets-AddList-PSCH-ReconfRqst optional }	CRITICALITY	reject	TYPE	PDSCHSets-AddList-PSCH-ReconfRqst	PRESENCE
{ ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst optional }	CRITICALITY	reject	TYPE	PDSCHSets-ModifyList-PSCH-ReconfRqst	PRESENCE
{ ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst optional }	CRITICALITY	reject	TYPE	PDSCHSets-DeleteList-PSCH-ReconfRqst	PRESENCE
{ ID id-PUSCHSets-AddList-PSCH-ReconfRqst optional }	CRITICALITY	reject	TYPE	PUSCHSets-AddList-PSCH-ReconfRqst	PRESENCE
{ ID id-PUSCHSets-ModifyList-PSCH-ReconfRqst optional }	CRITICALITY	reject	TYPE	PUSCHSets-ModifyList-PSCH-ReconfRqst	PRESENCE
{ ID id-PUSCHSets-DeleteList-PSCH-ReconfRqst optional }, ... }	CRITICALITY	reject	TYPE	PUSCHSets-DeleteList-PSCH-ReconfRqst	PRESENCE

```

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-ContainerProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}

-- R3-002211,CR169r3
PDSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-AddItemListIE-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 {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    dl-Timeslot-InformationAddList-PSCH-ReconfRqst DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    pDSCH-ID PDSCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    R3-002230,CR199r2
}

```

```

burstType BurstType,
midambleShiftAndBurstType MidambleShiftAndBurstType,
timeSlot TimeSlot,
repetitionPeriod RepetitionPeriod,
tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
repetitionLength RepetitionLength OPTIONAL,
tFCI-Presence TFCI-Presence,
iE-Extensions ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-002211,CR169r3
DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
timeSlot TimeSlot,
-- R3-002230,CR199r2
burstType BurstType,
midambleShiftAndBurstType MidambleShiftAndBurstType,
tFCI-Presence TFCI-Presence,
dL-Code-InformationAddList-PSCH-ReconfRqst DL-Code-InformationAddList-PSCH-ReconfRqst,
iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTS)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
pDSCH-ID PDSCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode,
iE-Extensions ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst

PDSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
pDSCHSet-ID PDSCHSet-ID,
pDSCH-InformationList PDSCH-Information-ModifyList-PSCH-ReconfRqst OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

```

```

}

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-
ReconfRqst }}

-- R3-002211,CR169r3
PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst  CRITICALITY reject          TYPE          PDSCH-Information-ModifyItem-ListIE-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 {
-- R3-002211,CR169r3
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset  OPTIONAL,
    dl-Timeslot-InformationModifyList-PSCH-ReconfRqst  DL-Timeslot-InformationModifyList-PSCH-ReconfRqst  OPTIONAL,
    pDSCH ID                  PDSCH ID,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
-- R3-002230,CR199r2
    burstType                BurstType,
    midambleShiftAndBurstType  MidambleShiftAndBurstType,
    timeSlot                    TimeSlot,
    repetitionPeriod            RepetitionPeriod,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset          OPTIONAL,
    repetitionLength            RepetitionLength          OPTIONAL,
    tFCI-Presence                TFCI-Presence,
    iE-Extensions            ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
    ...
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-002211,CR169r3
DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                    TimeSlot,
-- R3-002230,CR199r2
    burstType                BurstType          OPTIONAL,
    midambleShiftAndBurstType  MidambleShiftAndBurstType  OPTIONAL,
    tFCI-Presence                TFCI-Presence          OPTIONAL,
    dl-Code-InformationModifyList-PSCH-ReconfRqst  DL-Code-InformationModifyList-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
}

```

```

...
}
DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst
DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID PDSCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}
DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst
PDSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID PDSCHSet-ID,
    iE-Extensions ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}
PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst
PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID PUSCHSet-ID,
    pUSCH-InformationList PUSCH-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-ContainerProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}
-- R3-002211,CR169r3
PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-AddItemListIE-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 {
```

```
-- R3-002211,CR169r3
  repetitionPeriod          RepetitionPeriod,
  repetitionLength          RepetitionLength,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  uL-Timeslot-InformationAddList-PSCH-ReconfRqst UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
  pUSCH-ID                  PUSCH-ID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
-- R3-002230,CR199r2
  burstType                 BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot                  TimeSlot,
  repetitionPeriod          RepetitionPeriod,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  repetitionLength          RepetitionLength OPTIONAL,
  tFCI-Presence             TFCI-Presence,
  iE-Extensions             ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}
```

```
PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
}
```

```
-- R3-002211,CR169r3
```

```
UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst
```

```
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
```

```
  timeSlot                  TimeSlot,
-- R3-002230,CR199r2
  burstType                 BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tFCI-Presence             TFCI-Presence,
  uL-Code-InformationAddList-PSCH-ReconfRqst UL-Code-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions             ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}
```

```
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
}
```

```
UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst
```

```
UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
```

```
  pUSCH-ID                  PUSCH-ID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
  iE-Extensions             ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}
```

```

UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  PUSCHSet-ID                PUSCHSet-ID,
  PUSCH-InformationList      PDSCH-Information-ModifyList-PSCH-ReconfRqst OPTIONAL,
  IE-Extensions              ProtocolExtensionContainer { {PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-
ReconfRqst }}

-- R3-002211,CR169r3
PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  {ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-ModifyItem-ListIE-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 {
-- R3-002211,CR169r3
  repetitionPeriod                RepetitionPeriod                OPTIONAL,
  repetitionLength                RepetitionLength                OPTIONAL,
  tdd-PhysicalChannelOffset       TDD-PhysicalChannelOffset       OPTIONAL,
  uL-Timeslot-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  PUSCH-ID                        PUSCH-ID,
  tdd-ChannelisationCode          TDD-ChannelisationCode,
-- R3-002230,CR199r2
  burstType                       BurstType,
  midambleShiftAndBurstType       MidambleShiftAndBurstType,
  timeSlot                        TimeSlot,
  repetitionPeriod                RepetitionPeriod,
  tdd-PhysicalChannelOffset       TDD-PhysicalChannelOffset       OPTIONAL,
  repetitionLength                RepetitionLength                OPTIONAL,
  tFCI-Presence                   TFCI-Presence,
  IE-Extensions              ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- R3-002211,CR169r3
UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot TimeSlot,
-- R3-002230,CR199r2
    burstType BurstType OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence TFCI-Presence OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID PUSCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst

PUSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID PUSCHSet-ID,
    iE-Extensions ProtocolExtensionContainer { { PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

CauseLevel-PSCH-ReconfFailureTDD ::= CHOICE {
    generalCause GeneralCauseList-PSCH-ReconfFailureTDD,
    setSpecificCause SetSpecificCauseList-PSCH-ReconfFailureTDD,
    ...
}

GeneralCauseList-PSCH-ReconfFailureTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ GeneralCauseIE-PSCH-ReconfFailureTDD }}

GeneralCauseIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE GeneralCauseItem-PSCH-ReconfFailureTDD PRESENCE mandatory }T
    ...
}

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-ContainerProtocolIE-Single-Container {{ SetSpecificCauseIE-PSCH-ReconfFailureTDD }}

SetSpecificCauseIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-SetSpecificCauseItem-PSCH-ReconfFailureTDD      CRITICALITY ignore   TYPE SetSpecificCauseItem-PSCH-ReconfFailureTDD      PRESENCE mandatory
    }T
    ...
}

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-ContainerProtocolIE-Single-Container
{{ Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD }}

Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore   TYPE Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDDPRESENCE
    mandatory}T
    ...
}

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-ContainerProtocolIE-Single-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}T
    ...
}

```

```

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 ::= {
    ...
}

-- R3-002305,CR187r3
-- *****
--
-- RESET REQUEST
--
-- *****

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

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

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

ResetIndicator ::= CHOICE {
    communicationContext      CommunicationContextList-Reset,
    communicationControlPort   CommunicationControlPortList-Reset,
    nodeB                      NULL,
    ...
}

CommunicationContextList-Reset ::= ProtocolIE-Single-Container  {{CommunicationContextIE-Reset }}

CommunicationContextIE-Reset NBAP-PROTOCOL-IES ::= {

```

```

    {ID id-CommunicationContextItem-Reset          CRITICALITY reject          TYPE CommunicationContextItem-Reset          PRESENCE mandatory }
}

CommunicationContextItem-Reset ::= SEQUENCE {
    communicationContextInfoList-Reset          CommunicationContextInfoList-Reset,
    iE-Extensions                               ProtocolExtensionContainer { {CommunicationContextItem-Reset-ExtIEs} } OPTIONAL,
    ...
}

CommunicationContextItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCommunicationContext)) OF ProtocolIE-Single-Container
{{ CommunicationContextInfoItemIE-Reset }}

CommunicationContextInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationContextInfoItem-Reset          CRITICALITY reject          TYPE CommunicationContextInfoItem-Reset          PRESENCE mandatory}
}

CommunicationContextInfoItem-Reset ::= SEQUENCE {
    cRNC-CommunicationContextID          CRNC-CommunicationContextID          OPTIONAL,
    -- This IE is only present when message is sent by the Node B
    nodeB-CommunicationContextID          NodeB-CommunicationContextID          OPTIONAL,
    -- This IE is only present when message is transmitted by the CRNC
    iE-Extensions                               ProtocolExtensionContainer { {CommunicationContextInfoItem-Reset-ExtIEs} } OPTIONAL,
    ...
}

CommunicationContextInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationControlPortList-Reset ::= ProtocolIE-Single-Container {{CommunicationControlPortIE-Reset }}

CommunicationControlPortIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationControlPortItem-Reset          CRITICALITY reject          TYPE CommunicationControlPortItem-Reset          PRESENCE mandatory}
}

```

```

CommunicationControlPortItem-Reset ::= SEQUENCE {
    communicationControlPortInfoList-Reset      CommunicationControlPortInfoList-Reset,
    iE-Extensions                               ProtocolExtensionContainer { {CommunicationControlPortItem-Reset-ExtIEs} } OPTIONAL,
    ...
}

CommunicationControlPortItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationControlPortInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCCPinNodeB)) OF ProtocolIE-Single-Container {{CommunicationControlPortInfoItemIE-Reset }}

CommunicationControlPortInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationControlPortInfoItem-Reset      CRITICALITY reject      TYPE CommunicationControlPortInfoItem-Reset      PRESENCE mandatory}
}

CommunicationControlPortInfoItem-Reset ::= SEQUENCE {
    communicationControlPortID      CommunicationControlPortID,
    iE-Extensions                   ProtocolExtensionContainer { {CommunicationControlPortInfoItem-Reset-ExtIEs} } OPTIONAL,
    ...
}

CommunicationControlPortInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RESET RESPONSE
--
-- *****

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

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

```

```

}
ResetResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
END

```

9.3.4 NBAP Information Elements Definitions

```

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

-- R3-001917,CR197
NBAP-IEs {
    itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
    umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

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

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

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

```

```

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

-- R3-00xxxx,CR240r4
Acknowledged-PCPCH-access-preambles ::= INTEGER (0..15,...)
-- According to mapping in [4]

-- R3-002209,CR222r1
Acknowledged-PRACH-preamblesTries-Value ::= INTEGER(0..240,...)
-- The number of L1 acknowledged random access tries per every 20 ms period.

-- R3-00xxxx,CR240
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 {
-- R3-002234,CR228
        tGPSID          TGPSID,
        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 ::= {
    ...
}

-- R3-001914,CR181r1
AICH-Power ::= INTEGER (-10..5)

```

```

-- Unit dB, Range -10dB .. +5dB, Step +1dB
AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1
}

APPreambleSignature ::= INTEGER (0..15)

APSubChannelNumber ::= INTEGER (0..11)

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
}

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed

BindingID ::= OCTET STRING (SIZE (1..4, ...))

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

BlockSTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

```



```

-- R3-002230,CR199r2
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,
  ...
}
-- R3-002325,CR239
  abstract-syntax-error-falsely-constructed-message,
  ...
}

CauseRadioNetwork ::= ENUMERATED {
  unknown-C-ID,
  cell-not-available,
  power-level-not-supported,
  ul-scramblingcode-already-in-use,
  dl-radio-resources-not-available,
  ul-radio-resources-not-available,
  rl-already-ActivatedOrAllocated,
  nodeB-Resources-unavailable,
  insufficient-physical-channel-resources,
  measurement-not-supported-for-the-object,
  combining-resources-not-available,

```

```

reconfiguration-not-allowed,
requested-configuration-not-supported,
synchronisation-failure,
-- R3-001883,CR192r1
priority-transport-channel-established,
sIB-Origination-in-Node-B-not-Supported,
-- R3-002320,CR224r2
requested-tx-diversity-mode-not-supported,
unspecified,
priority-transport-channel-established,
bCCH-scheduling-error,
measurement-temporarily-not-available,
no-closed-loop-timing-adjustment-mode-configured,
invalid-CM-settings,
-- R3-001923,CR186r1
reconfiguration-CFN-not-elapsed,
-- R3-001892,CR180r1
number-of-DL-codes-not-supported,
s-cipch-not-supported,
combining-not-supported,
ul-sf-not-supported,
dl-SF-not-supported,
common-transport-channel-type-not-supported,
dedicated-transport-channel-type-not-supported,
downlink-shared-channel-not-supported,
uplink-shared-channel-not-supported,
cm-not-supported,
...
}

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

CCTrCH-ID ::= INTEGER (0..15)

CDSubChannelNumbers ::= BIT STRING (SIZE (12))

-- R3-002330,CR242
CellParameterID ::= INTEGER (0..127,...)

CFN ::= INTEGER (0..255)

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

ChipOffset ::= INTEGER (0..38399)

```

```

-- Unit Chip

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

Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}

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

CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-prach-preambletries,
    time-slot-iscp,
    ul-timeslot-iscp,
    acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles,
    ...
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power    Transmitted-Carrier-Power-Value,
    rssi                          RSSI-Value,
    acknowledged-prach-preambletries    Acknowledged-PRACH-preamblesTries-Value,
    time slot iscp                        TimeSlot ISCP Value,
    uL-TimeslotISCP                        UL-TimeslotISCP-Value,
    acknowledged-PCPCH-access-preambles    Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles        Detected-PCPCH-access-preambles,
    ...
}

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD ::= ENUMERATED {
    on,
    off
}

```

```

}
-- on=deactivate

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

-- R3-002330,CR242
ConstantValue ::= INTEGER (-10..10,...)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB

CPCH-Allowed-Total-Rate ::= ENUMERATED {
    v15,
    v30,
    v60,
    v120,
    v240,
    v480,
    v960,
    v1920,
    v2880,
    v3840,
    v4800,
    v5760,
    ...
}

CPCHScramblingCodeNumber ::= INTEGER (0..79)

-- R3-002329,CR214
CPCH-UL-DPCH-SlotFormat ::= INTEGER (0..2,...)

CriticalityDiagnostics ::= SEQUENCE {
-- R3-002366,CR244
    procedureIDCode          ProcedureIDCode          OPTIONAL,
    triggeringMessage        TriggeringMessage        OPTIONAL,
    criticalityResponse       Criticality                OPTIONAL,
    transactionID            TransactionID              OPTIONAL,
    iEsCriticalityResponses  CriticalityDiagnostics-IE-List,
    iE-Extensions            ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
        criticalityResponse Criticality,
        iE-ID                ProtocolIE-ID,

```

```

        repetitionNumber      RepetitionNumber      OPTIONAL,
        iE-Extensions          ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        ...
    }

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

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

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

-- R3-00xxxx,CR240r4
Detected-PCPCH-access-preambles ::= INTEGER (0..240,...)
According to mapping in [4]

-- R3-001900,CR191r1
D-FieldLength ::= ENUMERATED {

```

```

--- v1,
--- v2,
--- ...
}

-- R3-002234,CR228
DeltaSIR ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.

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

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

-- R3-002329,CR214
DL-DPCH-SlotFormat ::= INTEGER (0..16,...)

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

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

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

DLPowerAveragingWindowSize ::= INTEGER (1..60)

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

DL-TimeslotISCP ::= INTEGER (0..91)

DL-TPC-Pattern01Count ::= INTEGER (0..30,...)

-- R3-002329,CR214

```

```

Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling,
    ...
}

DPCH-ID ::= INTEGER (0..239)

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

-- R3-002206,CR200r1
to do
the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TFS ::= INTEGER

-- =====
-- E
-- =====

-- =====
-- F
-- =====

-- R3-002231,CR211r1
FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 511255)
-- According to the mapping in [9]. The maximum value is equal to the DL spreading factor -1--

FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [7] --

FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    step-size1-5,
    step-size2,
    ...
}

FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS,
    ...
}

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

FrameOffset ::= INTEGER (0..255)

```

```

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

| -- R3-002234,CR228
GapLength ::= INTEGER (1..14)
| -- Unit slot
| -- R3-002329,CR214
GapDuration ::= INTEGER (1..144,...)
| -- Unit frame

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

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

| -- R3-001978,CR185r2
| IB-OC-ID ::= INTEGER (1..16)
| IB-SG-DATA ::= BIT STRING
| IB-SG-POS ::= INTEGER (0..20464094)
| -- Only even positions allowed
| IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}
| -- R3-00xxxx,CR240
| IB-Type ::= ENUMERATED {
|     mib,
|     sib1,
|     sib2,
|     sIB3,
|     sIB4,
|     sIB5,
|     sIB6,
|     sIB7,
|     sIB8,
|     sIB9,
|     sIB10,
|     sIB11,
|     sib12,
|     sIB13,
|     sIB13dot1,
|     sIB13dot2,
|     sIB13dot3,
|     sIB13dot4,
|     sIB14,
|     sIB15,

```



```

    sIB15dot1,
    sIB15dot2,
    sIB15dot3,
    sIB16,
    ...
}

IndicationType ::= ENUMERATED {
    noFailure,
    serviceImpacting,
    ...
}

-- R3-001975,CR195r1
ITPPRM ::= ENUMERATED {
    mode 0,
    mode 1
}

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

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

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

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

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

MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

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

-- R3-002329,CR214
Max-Number-of-PCPCHes ::= INTEGER (1..64,....)

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

```

```

    ...
}

MeasurementAvailabilityIndicator ::= ENUMERATED {
    measurementAvailable,
    measurementnotAvailable
}

-- R3-00xxxx,CR240r4
MeasurementFilterCoefficient ::= ENUMERATED {k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement

MeasurementID ::= INTEGER (0..1048575)

-- R3-002230,CR199r2
MidambleShift ::= INTEGER (0..15)
MidambleShiftAndBurstType ::= CHOICE {
    type1 CHOICE {
        defaultMidamble NULL,
        commonMidamble NULL,
        ueSpecificMidamble MidambleShiftLong
    },
    type2 CHOICE {
        defaultMidamble NULL,
        commonMidamble NULL,
        ueSpecificMidamble MidambleShiftShort
    },
    type3 CHOICE {
        defaultMidamble NULL,
        ueSpecificMidamble MidambleShiftLong
    },
}
-- R3-00yyyy,CR242r1
...
}

MidambleShiftLong ::= INTEGER (0..15)

MidambleShiftShort ::= INTEGER (0..5)

-- R3-002289,CR177r3
MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB

-- R3-002261,CR233
MinSpreadingFactor ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
}
-- R3-00xxxx,CR240

```

```

|      v512T
|      ...
|    }

MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

| -- R3-002329,CR214
MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexibleT
|    ...
| }

-- =====
-- N
-- =====

NEOT ::= INTEGER (0..8)

| -- R3-002329,CR214
NFmax ::= INTEGER (1..64, ...)

N-INSYNC-IND ::= INTEGER (1..256)

N-OUTSYNC-IND ::= INTEGER (1..256)

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

NStartMessage ::= INTEGER (1..8)

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

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

| -- R3-002330,CR242
PagingIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8T
|    ...
| }

```

```

}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    CRC-Included,
    CRC-NotIncluded,
    ...
}

-- R3-002330,CR242
PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

PCP-Length ::= ENUMERATED{
    v0,
    v8
}

PDSCH-CodeMapping ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    signallingMethod          CHOICE {
        code-Range            PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
        tFCI-Range            PDSCH-CodeMapping-DSCH-MappingInformationList,
        explicit               PDSCH-CodeMapping-PDSCH-CodeInformationList
    },
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0..maxCodeNrComp-1)

PDSCH-CodeMapping-SpreadingFactor ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF
SEQUENCE {
    spreadingFactor            PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo             PDSCH-Multi-CodeInfo,
    start-CodeNumber           PDSCH-CodeMapping-CodeNumberComp,
}

```

```

    stop-CodeNumber          PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions            ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs } }    OPTIONAL,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
SEQUENCE {
    maxTFCI-field2-Value      PDSCH-CodeMapping-MaxTFCI-Field2-Value,
    spreadingFactor           PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo            PDSCH-Multi-CodeInfo,
    codeNumber                PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions             ProtocolExtensionContainer { { PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs } }    OPTIONAL,
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-MaxTFCI-Field2-Value ::= INTEGER (1..1023)

PDSCH-CodeMapping-PDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
SEQUENCE {
    spreadingFactor           PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo            PDSCH-Multi-CodeInfo,
    codeNumber                PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions             ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs } }    OPTIONAL,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-Multi-CodeInfo ::= INTEGER (1..16)

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

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

PICH-Mode ::= ENUMERATED {
    v18,
    v36,
    v72,
    v144,
    ...
}

```

-- R3-001914,CR181r1

```

PICH-Power ::= INTEGER (-10..5)
-- Unit dB, Range -10dB .. +5dB, Step +1dB

PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}

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

PowerRaiseLimit ::= INTEGER (0..10)

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

PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 [9] --

PreambleThreshold ::= INTEGER (0..72)
-- 0= 0dB, 1= 0.5dB, ... , 72= 36dB

PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = 0chip, 1 = 3chips

SCH-TimeSlot ::= INTEGER (0..6)

PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%

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

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

-- =====
-- Q
-- =====

QE-Selector ::= ENUMERATED {
    selected,
    non-selected
}

```

```

-- =====
-- R
-- =====

RACH-SlotFormat ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    ...
}

RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 11=Sub Channel Number 11

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64,
    ...
}

-- R3-002370,CR246
RepetitionNumber ::= INTEGER (10..2565)

RefTFNumber ::= INTEGER (0..3)

ReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          ReportCharacteristicsType-ReportPeriodicity,
    event-a           ReportCharacteristicsType-EventA,
    event-b           ReportCharacteristicsType-EventB,
    event-c           ReportCharacteristicsType-EventC,
    event-d           ReportCharacteristicsType-EventD,
    event-e           ReportCharacteristicsType-EventE,
    event-f           ReportCharacteristicsType-EventF,
    ...
}

ReportCharacteristicsType-EventA ::= SEQUENCE {
    measurementThreshold      ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { ReportCharacteristicsType-EventA-ExtIEs} } OPTIONAL,
    ...
}

```

```

ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventB ::= SEQUENCE {
    measurementThreshold      ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime ReportCharacteristicsType-ScaledMeasurementHysteresisTime    OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { ReportCharacteristicsType-EventB-ExtIEs } } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventC ::= SEQUENCE {
    measurementIncreaseThreshold      ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime             ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventC-ExtIEs } } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventD ::= SEQUENCE {
    measurementDecreaseThreshold      ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime             ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventD-ExtIEs } } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventE ::= SEQUENCE {
    measurementThreshold1      ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2      ReportCharacteristicsType-MeasurementThreshold    OPTIONAL,
    measurementHysteresisTime   ReportCharacteristicsType-ScaledMeasurementHysteresisTime    OPTIONAL,
    reportPeriodicity           ReportCharacteristicsType-ReportPeriodicity    OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-ExtIEs } } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventF ::= SEQUENCE {
    measurementThreshold1      ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2      ReportCharacteristicsType-MeasurementThreshold    OPTIONAL,

```



```

measurementHysteresisTime      ReportCharacteristicsType-ScaledMeasurementHysteresisTime  OPTIONAL,
reportPeriodicity              ReportCharacteristicsType-ReportPeriodicity                OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-ExtIEs} }  OPTIONAL,
...
}

ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
  rssi                          RSSI-Value-IncrDecrThres,
  transmitted-carrier-power     Transmitted-Carrier-Power-Value,
  acknowledged-prach-preambles      Acknowledged-PRACH-preamblesTries-Value,
  acknowledged-prach-preambles      Acknowledged-PRACH-preamblesTries-Value,
  R3-002085,CR208
  timeslot-isep                    TimeSlot-ISCP-Value-IncrDecrThres,
  uL-TimeslotISCP                  UL-TimeslotISCP-Value-IncrDecrThres,
  sir                           SIR-Value-IncrDecrThres,
  sir-error                     SIR-Error-Value-IncrDecrThres,
  transmitted-code-power        Transmitted-Code-Power-Value-IncrDecrThres,
  rscp                          RSCP-Value-IncrDecrThres,
  round-trip-time              Round-Trip-Time-IncrDecrThres,
  acknowledged-PCPCH-access-preambles  Acknowledged-PCPCH-access-preambles,
  detected-PCPCH-access-preambles  Detected-PCPCH-access-preambles,
  ...
}

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
  rssi                          RSSI-Value,
  transmitted-carrier-power     Transmitted-Carrier-Power-Value,
  acknowledged-prach-preambles      Acknowledged-PRACH-preamblesTries-Value,
  acknowledged-prach-preambles      Acknowledged-PRACH-preamblesTries-Value,
  R3-002085,CR208
  timeslot isep                    TimeSlot-ISCP-Value,
  uL-TimeslotISCP                  UL-TimeslotISCP-Value,
  sir                           SIR-Value,
  sir-error                     SIR-Error-Value,
  transmitted-code-power        Transmitted-Code-Power-Value,
  rscp                          RSCP-Value,
  R3-001883,CR192r1
  rx-timing-deviation              Rx-Timing-Deviation-Value,
  round-trip-time                  Round-Trip-Time-Value,
  rx-timing-deviation              Rx-Timing-Deviation-Value,
  acknowledged-PCPCH-access-preambles  Acknowledged-PCPCH-access-preambles,
  detected-PCPCH-access-preambles  Detected-PCPCH-access-preambles,
  ...
}

R3-00xxxx,CR240r4
ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE {
  msec                          MeasurementChangeTime-Scaledmsec,
  ...
}

```

```

}
MeasurementChangeTime-Scaledmsec ::= INTEGER (1..600, ...)
-- ReportCharacteristicsType-MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms

ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
    msec          MeasurementHysteresisTime-Scaledmsec,
    ...
}

MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..600, ...)
-- ReportCharacteristicsType-MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms

ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
    msec          ReportPeriodicity-Scaledmsec,
    min          ReportPeriodicity-Scaledmin
}

-- R3-00xxxx,CR240r4
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

-- R3-00xxxx,CR240
ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled,
    ...
}

-- R3-002218,CR190r3
RetentionPriority ::= INTEGER(0..15)

LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
}

RL-ID ::= INTEGER (0..31)

RL-Set-ID ::= INTEGER (0..31)

-- R3-001975,CR195r1
RPM ::= ENUMERATED {
    mode-0,
    mode-1
}

```

```

}
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)

Round-Trip-Time-Value ::= INTEGER(0..8191)
-- According to mapping in 25.215

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [5]

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

RSSI-Value ::= INTEGER(0..621)
-- According to mapping in [4]/[5]

RSSI-Value-IncrDecrThres ::= INTEGER (0..620)

Rx-Timing-Deviation-Value ::= INTEGER (0..2047)

-- =====
-- S
-- =====

AdjustmentPeriod          ::= INTEGER(1..300)
-- Unit Frame

ScaledAdjustmentRatio     ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

MaxAdjustmentStep        ::= INTEGER(1..10)
-- Unit Slot

ScramblingCodeNumber ::= INTEGER (0..15)

-- R3-002329,CR214
SecondaryCCPCH-SlotFormat ::= INTEGER(0..17,...)

-- R3-002329,CR214r1
S-FieldLength ::= ENUMERATED {
    v1,
    v2,
    ...
}

SFN ::= INTEGER (0..4095)

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
    ...
}

```

```

}
SIR-Error-Value ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value ::= INTEGER (0..63)
-- According to mapping in [4]/[5]

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SSDT-Cell-Identity ::= ENUMERATED {a, b, c, d, e, f, g, h}

-- R3-002329,CR214
SSDT-CellID-Length ::= ENUMERATED {
    short,
    medium,
    long,
    ...
}

-- R3-002329,CR214
SSDT-Indication ::= ENUMERATED {
    ssdt-active-in-the-UE,
    ssdt-not-active-in-the-UE,
    ...
}

STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

-- R3-002329,CR214
SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-Supported,
    sSDT-not-supported,
    ...
}

-- R3-002330,CR242
SyncCase ::= INTEGER (1..2)

-- =====
-- T
-- =====

-- R3-002329,CR214
T-Cell ::= ENUMERATED {
    v0,
    v1,
    v2,

```

```

v3,
v4,
v5,
v6,
v7,
v8,
v9,
...
}

T-RLFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s

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,
...
}

-- R3-002211,CR169r3
TDD-DPCHOffset ::= CHOICE {
initialOffset INTEGER (0..255),
noinitialOffset INTEGER (0..63)
}

```

```

TDD-PhysicalChannelOffset ::= INTEGER (0..63)

TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    ...
}

TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors      SEQUENCE {
        betaC                  BetaCD,
        betaD                  BetaCD,
        refTFCNumber           RefTFCNumber    OPTIONAL
    },
    computedGainFactors       RefTFCNumber
}

TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    ...
}

-- R3-00xxxx,CR240
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)

-- R3-002329,CR214
TFCI-SignallingMode-SplitType ::= ENUMERATED {
    hard,

```

```

    logical
    ...
}

-- R3-002329,CR214
TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    split
    ...
}

TGD ::= INTEGER (0|15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

TGPRC ::= INTEGER (0..63)
-- 0 = infinity

-- R3-002234,CR228
TGPSID ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

-- R3-002085,CR208
TimeSlot-ISCP-Value ::= INTEGER (0..81)
— According to mapping in [5]

TimeSlot-ISCP-Value-IncrDeerThres ::= 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 {
  -- R3-002234,CR228
  tGPSID          TGPSID,
  tGSN            TGSN,
  tGL1            GapLength,
  tGL2            GapLength  OPTIONAL,
  tGD             TGD,
  tGPL1           GapDuration,
  tGPL2           GapDuration OPTIONAL,
  -- R3-001975,CR195r1
  rPM          RPM,
  iTPPRM       ITPPRM,
  uL-DL-mode      UL-DL-mode,
  downlink-Compressed-Mode-Method  Downlink-Compressed-Mode-Method  OPTIONAL,
  -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
  uplink-Compressed-Mode-Method    Uplink-Compressed-Mode-Method    OPTIONAL,
  -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
  dL-FrameType     DL-FrameType,
  delta-SIR1        DeltaSIR,
  delta-SIR-after1  DeltaSIR,
  delta-SIR2        DeltaSIR  OPTIONAL,
  delta-SIR-after2  DeltaSIR  OPTIONAL,
  iE-Extensions     ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
  ...
}

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

TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED{
  code-change,
  nocode-change
}

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in [4]/[5]

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [4]/[5]

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

```



```

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

-- R3-002329,CR214
TransmitDiversityIndicator ::= ENUMERATED {
  active,
  inactive,
  ...
}

TFCS ::= SEQUENCE {
  tFCSvalues CHOICE {
    no-Split-in-TFCI TFCS-TFCSList,
    split-in-TFCI SEQUENCE {
      transportFormatCombination-DCH TFCS-DCHList,
      signallingMethod CHOICE {
        tFCI-Range TFCS-MappingOnDSCHList,
        explicit TFCS-DSCHList
      }
    }
  },
  iE-Extensions ProtocolExtensionContainer { { TFCS-ExtIEs} } OPTIONAL,
  ...
}

TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
  SEQUENCE {
    cTFC TFCS-CTFC,
    tFC-Beta TransportFormatCombination-Beta OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} } OPTIONAL,
    ...
  }

TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-CTFC ::= INTEGER (0..maxCTFC)

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCICombs)) OF
  SEQUENCE {
    cTFC TFCS-CTFC,
    iE-Extensions ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs} } OPTIONAL,
    ...
  }

TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

TFCS-MapingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value      TFCS-MaxTFCI-field2-Value,
    cTFC-DSCH                 TFCS-CTFC,
    iE-Extensions             ProtocolExtensionContainer { { TFCS-MapingOnDSCHList-ExtIEs} } OPTIONAL,
    ...
  }

TFCS-MapingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs-1)

TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH                 TFCS-CTFC,
    iE-Extensions             ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs} } OPTIONAL,
    ...
  }

TFCS-DSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet ::= SEQUENCE {
  dynamicParts                TransportFormatSet-DynamicPartList,
  semi-staticPart             TransportFormatSet-Semi-staticPart,
  iE-Extensions               ProtocolExtensionContainer { { TransportFormatSet-ExtIEs} } OPTIONAL,
  ...
}

TransportFormatSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
  SEQUENCE {
    nrOfTransportBlocks        TransportFormatSet-NrOfTransportBlocks,
    transportBlockSize         TransportFormatSet-TransportBlockSize OPTIONAL,
    -- This IE is only present if "Number of Transport Blocks" is greater than 0
    mode                       TransportFormatSet-ModeDP,
    iE-Extensions              ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs} } OPTIONAL,
    ...
  }

TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-count)) OF

```

```

SEQUENCE {
    transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval,
    iE-Extensions                 ProtocolExtensionContainer { { TransmissionTimeIntervalList-ExtIEs } } OPTIONAL,
    ...
}

TransmissionTimeIntervalList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval OPTIONAL,
    -- This IE is mandatory if not defined as a dynamic parameter. Otherwise it is absent
    channelCoding                 TransportFormatSet-ChannelCodingType,
    codingRate                    TransportFormatSet-CodingRate OPTIONAL,
    -- This IE is only present if channelCoding is 'convolutional' or 'turbo'
    rateMatchingAttribute        TransportFormatSet-RateMatchingAttribute,
    CRC-Size                     TransportFormatSet-CRC-Size,
    mode                          TransportFormatSet-ModeSSP,
    iE-Extensions                 ProtocolExtensionContainer { { TransportFormatSet-Semi-staticPart-ExtIEs } } OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
    ...
}

TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}

TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    ...
}

TransportFormatSet-ModeDP ::= CHOICE {
    tdd                          TransmissionTimeIntervalList,
    -- This IE is mandatory if not defined as a semistatic parameter, otherwise it is absent
    notApplicable                NULL,
}

```

```

    ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
    tdd          TransportFormatSet-SecondInterleavingMode,
    notApplicable      NULL,
    ...
}

-- R3-001894,CR188r1
TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..5124095)

TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeSlot-related,
    ...
}

TransportFormatSet-TransmissionTimeInterval ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    ...
}

TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)

TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))

-- R3-00xxxx,CR240
TSTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

-- =====
-- U
-- =====

UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 1885.2MHz .. 2024.8MHz

UL-CapacityCredit ::= INTEGER (0..65535)

UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,

```

```

    both-ul-and-dl
}

-- R3-002329,CR214
Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling,
    ...
}

-- R3-002329,CR214
UL-DPCCH-SlotFormat ::= INTEGER (0..5, ...)

-- R3-002329,CR214r1
UL-SIR ::= INTEGER (-82..173)
-- According to mapping in [16]

UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    ...
}

-- R3-001977,CR194r2
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)

-- R3-002329,CR214
UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long,
    ...
}

-- R3-001977,CR194r2
UL-TimeslotISCP-Value ::= INTEGER (0..81)

```

```

-- According to mapping in [5]
-- R3-002085,CR208
UL-TimeslotISCP-Value-IncrDecrThres ::= INTEGER (0..80)

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

-- =====
-- V
-- =====

-- =====
-- W
-- =====

-- =====
-- X
-- =====

-- =====
-- Y
-- =====

-- =====
-- Z
-- =====

END

```

9.3.5 ~~NBAP~~ Common ~~Data Type~~ Definitions

```

-- *****
--
-- Common definitions
--
-- *****

-- R3-001917,CR197
NBAP-CommonDataTypes { object identifier to be allocated }
NBAP-CommonDataTypes {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) nbap (2) version1 (1) nbap-CommonDataTypes (3) }
}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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, unsuccessfull-outcome, outcome }

END

```

9.3.6 Constant NBAP Extension Definitions

```

-- R3-001945,CR198
-- *****
--
-- Constant definitions
--
-- *****

-- R3-001917,CR197
NBAP-Constants { object identifier to be allocated }
NBAP-Constants {
    itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
    umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

```

```

id-audit INTEGER ::= 0
id-auditRequired INTEGER ::= 1
id-blockResource INTEGER ::= 2
id-cellDeletion INTEGER ::= 3
id-cellReconfiguration INTEGER ::= 4
id-cellSetup INTEGER ::= 5
id-commonMeasurementFailure INTEGER ::= 6
id-commonMeasurementInitiation INTEGER ::= 7
id-commonMeasurementReport INTEGER ::= 8
id-commonMeasurementTermination INTEGER ::= 9
id-commonTransportChannelDelete INTEGER ::= 10
id-commonTransportChannelReconfigure INTEGER ::= 11
id-commonTransportChannelSetup INTEGER ::= 12
id-compressedModeCommand INTEGER ::= 14
id-dedicatedMeasurementFailure INTEGER ::= 16
id-dedicatedMeasurementInitiation INTEGER ::= 17
id-dedicatedMeasurementReport INTEGER ::= 18
id-dedicatedMeasurementTermination INTEGER ::= 19
id-downlinkPowerControl INTEGER ::= 20
id-errorIndicationForDedicated INTEGER ::= 21
id-physicalSharedChannelReconfiguration INTEGER ::= 37
id-privateMessageForDedicated INTEGER ::= 22
id-radioLinkAddition INTEGER ::= 23
id-radioLinkDeletion INTEGER ::= 24
id-radioLinkFailure INTEGER ::= 25
id-radioLinkRestoration INTEGER ::= 26
id-radioLinkSetup INTEGER ::= 27
id-resourceStatusIndication INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation INTEGER ::= 29
id-synchronisedRadioLinkReconfigurationCommit INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation INTEGER ::= 31
id-systemInformationUpdate INTEGER ::= 32
id-unblockResource INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration INTEGER ::= 34
id-errorIndicationForCommon INTEGER ::= 35
id-privateMessageForCommon INTEGER ::= 36
-- R3-002305,CR187r3
id-reset INTEGER ::= 37

-- *****
--
-- Extension constants
--
-- *****

maxPrivateIEs INTEGER ::= 65535
maxProtocolExtensions INTEGER ::= 65535
maxProtocolIEs INTEGER ::= 65535

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

```



```

--
-- *****
maxNrOfCodes          INTEGER ::= 10
maxNrOfDLTSS         INTEGER ::= 15
maxNrOfDLCodes       INTEGER ::= 8
maxNrOfErrors        INTEGER ::= 256
maxNrOfTFs           INTEGER ::= 32
maxNrOfTFCs          INTEGER ::= 1024
maxNrOfRLs           INTEGER ::= 16
maxNrOfRLSets        INTEGER ::= maxNrOfRLs
maxNrOfDPCHs         INTEGER ::= 240
maxNrOfSCCPCHs       INTEGER ::= 8
-- R3-001847,CR193
maxNrOfCPCHs         INTEGER ::= 10 -- temporary value4
maxNrOfPCPCHs        INTEGER ::= 64
maxNrOfDCHs          INTEGER ::= 128
maxNrOfDSCHs         INTEGER ::= 32
maxNrOfFACHs         INTEGER ::= 8
maxNrOfCCTrCHs       INTEGER ::= 16
maxNrOfPDSCHs        INTEGER ::= 256
maxNrOfPUSCHs        INTEGER ::= 256
maxNrOfPDSCHSets     INTEGER ::= 256
maxNrOfPUSCHSets     INTEGER ::= 256
maxNrOfULTSs         INTEGER ::= 15
maxNrOfUSCHs         INTEGER ::= 32
maxAPSigNum          INTEGER ::= 16
maxNrOfSlotFormatsPRACH  INTEGER ::= 8
maxCellinNodeB       INTEGER ::= 256
maxCCPinNodeB        INTEGER ::= 256
maxCPCHCell          INTEGER ::= 64
maxCTFC              INTEGER ::= 16777215
maxLocalCellinNodeB  INTEGER ::= maxCellinNodeB
maxNoofLen            INTEGER ::= 7
maxRACHCell          INTEGER ::= maxPRACHCell
maxPRACHCell         INTEGER ::= 16
maxPCPCHCell         INTEGER ::= 64
maxSCCPCHCell        INTEGER ::= 32
maxSCPICHCell        INTEGER ::= 32
maxTTI-count         INTEGER ::= 4
maxIBSEG             INTEGER ::= 16
-- R3-001978,CR185r2
maxIB                INTEGER ::= 3264
maxFACHCell          INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching      INTEGER ::= 256
maxCodeNrComp-1      INTEGER ::= 256
maxNrOfCodeGroups    INTEGER ::= 256
maxNrOfTFCIGroups    INTEGER ::= 256
maxNrOfTFCI1Combs    INTEGER ::= 512
maxNrOfTFCI2Combs    INTEGER ::= 1024
maxNrOfTFCI2Combs-1  INTEGER ::= 1023
maxNrOfSF            INTEGER ::= 8
-- R3-002329,CR214r1

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maxTGPS                               INTEGER ::= 6
-- R3-002305,CR187r3
maxCommunicationContext                INTEGER ::= 1048575

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp       INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd INTEGER ::= 1
id-BCH-InformationItem-AuditRsp       INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd INTEGER ::= 8
id-BCCH-ModificationTime              INTEGER ::= 9
id-BlockingPriorityIndicator           INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD        INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD        INTEGER ::= 12
id-Cause                               INTEGER ::= 13
id-CCP-InformationItem-AuditRsp       INTEGER ::= 14
id-CCP-InformationList-AuditRsp       INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd INTEGER ::= 16
id-Cell-InformationItem-AuditRsp      INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd INTEGER ::= 18
id-Cell-InformationList-AuditRsp      INTEGER ::= 19
id-CellItem-CM-Rprt                   INTEGER ::= 20
id-CellItem-CM-Rqst                   INTEGER ::= 21
id-CellItem-CM-Rsp                     INTEGER ::= 22
id-CellParameterID                    INTEGER ::= 23
id-CFN                                 INTEGER ::= 24
id-C-ID                                INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD    INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD    INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD   INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD       INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp  INTEGER ::= 33
id-CommonMeasurementType               INTEGER ::= 34
id-CommonPhysicalChannelID             INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD INTEGER ::= 38
id-CommunicationControlPortID          INTEGER ::= 40
id-ConfigurationGenerationID           INTEGER ::= 43
id-CRNC-CommunicationContextID         INTEGER ::= 44
id-CriticalityDiagnostics              INTEGER ::= 45
id-DCH-AddList-RL-ReconfPrepFDD       INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD       INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD       INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD       INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD    INTEGER ::= 52

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id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
-- R3-001921,CR173r1	
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
-- R3-002272,CR165r3	
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
-- R3-002272,CR165r3	
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
-- R3-002272,CR165r3	
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
-- R3-002272,CR165r3	
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
-- R3-002272,CR165r3	
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106

id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
-- R3-002272,CR165r3	
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-AdjustmentPeriod	INTEGER ::= 129
id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD	INTEGER ::= 142
id-NodeB-CommunicationContextID	INTEGER ::= 143
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153
id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 157
id-PCH-InformationItem-AuditRsp	INTEGER ::= 158
id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 159
id-PD	INTEGER ::= 160
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 164

id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 165
id-PICH-InformationItem-AuditRsp	INTEGER ::= 166
id-PICH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 168
id-PowerAdjustmentType	INTEGER ::= 169
id-PRACH-InformationItem-AuditRsp	INTEGER ::= 170
id-PRACH-InformationItem-ResourceStatusInd	INTEGER ::= 171
id-PRACHItem-CTCH-SetupRqstFDD	INTEGER ::= 172
id-PRACHItem-CTCH-SetupRqstTDD	INTEGER ::= 173
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	INTEGER ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 180
id-PrimaryScramblingCode	INTEGER ::= 181
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 182
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 183
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 189
id-RACH-InformationItem-AuditRsp	INTEGER ::= 190
id-RACH-InformationItem-ResourceStatusInd	INTEGER ::= 191
id-RACHItem-CTCH-SetupRsp	INTEGER ::= 192
id-RACHItem-CM-Rprt	INTEGER ::= 193
id-RACHItem-CM-Rqst	INTEGER ::= 194
id-RACHItem-CM-Rsp	INTEGER ::= 195
id-RACH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	INTEGER ::= 197
id-ReportCharacteristics	INTEGER ::= 198
id-Reporting-Object-RL-FailureInd	INTEGER ::= 199
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 200
id-RL-ID	INTEGER ::= 201
id-RL-InformationItem-DM-Rprt	INTEGER ::= 202
id-RL-InformationItem-DM-Rqst	INTEGER ::= 203
id-RL-InformationItem-DM-Rsp	INTEGER ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	INTEGER ::= 205
id-RL-informationItem-RL-DeletionRqst	INTEGER ::= 206
id-RL-InformationItem-RL-FailureInd	INTEGER ::= 207
id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 212
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 213
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 215
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 219

id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 221
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 227
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 229
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 230
id-RLItem-DM-Rprt	INTEGER ::= 231
id-RLItem-DM-Rqst	INTEGER ::= 232
id-RLItem-DM-Rsp	INTEGER ::= 233
id-RLItem-RL-FailureInd	INTEGER ::= 234
id-RLItem-RL-RestoreInd	INTEGER ::= 235
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 236
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 238
id-RL-SetItem-DM-Rqst	INTEGER ::= 239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 266
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 267
id-SFN	INTEGER ::= 268
id-ShutdownTimer	INTEGER ::= 269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273

id-SyncCase	INTEGER ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 275
id-T-Cell	INTEGER ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	INTEGER ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
id-TransmissionDiversityApplied	INTEGER ::= 279
id-UARFCNforNt	INTEGER ::= 280
id-UARFCNforNd	INTEGER ::= 281
id-UARFCNforNu	INTEGER ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
-- R3-001921, CR173r1	
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-Active-Pattern-Sequence-Information	INTEGER ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 316
id-AdjustmentRatio	INTEGER ::= 317
id-AllRLItem-DM-Rqst	INTEGER ::= 318
id-AllRLItem-Set-DM-Rqst	INTEGER ::= 319
id-AP-AICH-InformationItem-AuditRsp	INTEGER ::= 320
id-AP-AICH-InformationItem-ResourceStatusInd	INTEGER ::= 321
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	INTEGER ::= 324
id-CauseLevel-RL-AdditionFailureFDD	INTEGER ::= 325
id-CauseLevel-RL-AdditionFailureTDD	INTEGER ::= 326
id-CauseLevel-RL-ReconfFailure	INTEGER ::= 327
id-CauseLevel-RL-SetupFailureFDD	INTEGER ::= 328
id-CauseLevel-RL-SetupFailureTDD	INTEGER ::= 329
id-CDCA-ICH-InformationItem-AuditRsp	INTEGER ::= 330
id-CDCA-ICH-InformationItem-ResourceStatusInd	INTEGER ::= 331
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	INTEGER ::= 333

id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	INTEGER ::= 334
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD	INTEGER ::= 335
id-CPCH-InformationItem-AuditRsp	INTEGER ::= 336
id-CPCH-InformationItem-ResourceStatusInd	INTEGER ::= 337
id-CPCHItem-CM-Rprt	INTEGER ::= 338
id-CPCHItem-CM-Rqst	INTEGER ::= 339
id-CPCHItem-CM-Rsp	INTEGER ::= 340
id-CPCHListItem-CTCH-ReconfRqstFDD	INTEGER ::= 341
id-CPCH-Parameters-CTCH-SetupRsp	INTEGER ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 343
id-DCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 344
id-DCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 345
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	INTEGER ::= 353
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 354
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	INTEGER ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	INTEGER ::= 357
id-DL-TPC-Pattern01Count	INTEGER ::= 358
id-DPCHConstant	INTEGER ::= 359
id-DSCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 360
id-DSCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 361
id-FACH-ParametersList-CTCH-SetupRsp	INTEGER ::= 362
id-GeneralCauseItem-PSCH-ReconfFailureTDD	INTEGER ::= 363
id-GeneralCauseItem-RL-AdditionFailureFDD	INTEGER ::= 364
id-GeneralCauseItem-RL-AdditionFailureTDD	INTEGER ::= 365
id-GeneralCauseItem-RL-ReconfFailure	INTEGER ::= 366
id-GeneralCauseItem-RL-SetupFailureFDD	INTEGER ::= 367
id-GeneralCauseItem-RL-SetupFailureTDD	INTEGER ::= 368
id-Limited-power-increase-information-Cell-SetupRqstFDD	INTEGER ::= 369
id-MeasurementAvailableItem-CommonMeasurementReport	INTEGER ::= 370
id-MeasurementnotAvailableItem-CommonMeasurementReport	INTEGER ::= 371
id-MeasurementAvailableItem-DedicatedMeasurementReport	INTEGER ::= 372
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	INTEGER ::= 373
id-PCH-Parameters-CTCH-SetupRsp	INTEGER ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	INTEGER ::= 375
id-PCPCH-InformationItem-AuditRsp	INTEGER ::= 376
id-PCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 377
id-PCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 378
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 379
id-PICH-ParametersItem-CTCH-ReconfRqstFDD	INTEGER ::= 380
id-PRACHConstant	INTEGER ::= 381
id-PRACHListIE-CTCH-ReconfRqstFDD	INTEGER ::= 382
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 383
id-PUSCHConstant	INTEGER ::= 384
id-RACH-Parameters-CTCH-SetupRsp	INTEGER ::= 385


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id-RLSpecificCauseItem-RL-AdditionFailureFDD          INTEGER ::= 386
id-RLSpecificCauseItem-RL-AdditionFailureTDD          INTEGER ::= 387
id-RLSpecificCauseItem-RL-ReconfFailure               INTEGER ::= 388
id-RLSpecificCauseItem-RL-SetupFailureFDD             INTEGER ::= 389
id-RLSpecificCauseItem-RL-SetupFailureTDD             INTEGER ::= 390
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD          INTEGER ::= 391
id-SetSpecificCauseItem-PSCH-ReconfFailureTDD        INTEGER ::= 392
id-Synchronisation-Configuration-Cell-ReconfRqst      INTEGER ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst      INTEGER ::= 394
id-Transmission-Gap-Pattern-Sequence-Information     INTEGER ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD     INTEGER ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  INTEGER ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  INTEGER ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  INTEGER ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  INTEGER ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  INTEGER ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  INTEGER ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD     INTEGER ::= 403
id-UL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD  INTEGER ::= 404
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  INTEGER ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  INTEGER ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  INTEGER ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD   INTEGER ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD   INTEGER ::= 409
id-USCH-InformationResponseListIE-RL-ReconfReady     INTEGER ::= 410
id-USCH-InformationResponseListIE-RL-ReconfRsp       INTEGER ::= 411
-- R3-002305,CR187r3
id-CommunicationContextInfoItem-Reset                 INTEGER ::= 412xxx
id-CommunicationContextItem-Reset                     INTEGER ::= 413xxx
id-CommunicationControlPortInfoItem-Reset             INTEGER ::= 414xxx
id-CommunicationControlPortItem-Reset                 INTEGER ::= 415xxx
id-ResetIndicator                                     INTEGER ::= 416xxx
-- R3-002272,CR165r3
id-TFCI2-Bearer-Information-RL-SetupRqstFDD          INTEGER ::= 417xxx
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD  INTEGER ::= 418xxx
id-TFCI2-BearerInformationResponse-RL-SetupRspFDD    INTEGER ::= 419xxx

```

END

```

-----

```

Container definitions

```

-----

```

```

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

```

BEGIN

```

-----

```

IE parameter types from other modules.

```

--
*****
IMPORTS
-- Criticality,
-- Presence,
-- PrivateIE-ID,
-- ProtocolExtensionID,
-- ProtocolIE-ID
FROM NBAP-CommonDataTypes

-- maxProtocolExtensions,
-- maxPrivateIEs,
-- maxProtocolIEs
FROM NBAP-Constants;

-- *****
--
-- Class Definition for Protocol IEs
--
-- *****

NBAP-PROTOCOL-IES ::= CLASS {
-- &id ProtocolIE-ID UNIQUE,
-- &criticality Criticality,
-- &Value,
-- &presence Presence
}
WITH SYNTAX {
-- ID &id
-- CRITICALITY &criticality
-- TYPE &Value
-- PRESENCE &presence
}

-- *****
--
-- Class Definition for Protocol IEs
--
-- *****

NBAP-PROTOCOL-IES-PAIR ::= CLASS {
-- &id ProtocolIE-ID UNIQUE,
-- &firstCriticality Criticality,
-- &FirstValue,
-- &secondCriticality Criticality,
-- &SecondValue,
-- &presence Presence
}
WITH SYNTAX {
-- ID &id
-- FIRST-CRITICALITY &firstCriticality
-- FIRST-TYPE &FirstValue
}

```

```

-- SECOND_CRITICALITY &secondCriticality
-- SECOND_TYPE &SecondValue
-- PRESENCE &presence
}

-- *****
--
-- Class Definition for Protocol Extensions
--
-- *****

NBAP_PROTOCOL_EXTENSION ::= CLASS {
-- &id ProtocolExtensionID UNIQUE,
-- &criticality Criticality,
-- &Extension,
-- &presence Presence
}
WITH SYNTAX {
-- ID &id
-- CRITICALITY &criticality
-- EXTENSION &Extension
-- PRESENCE &presence
}

-- *****
--
-- Class Definition for Private IEs
--
-- *****

NBAP_PRIVATE_IES ::= CLASS {
-- &id PrivateIE-ID,
-- &criticality Criticality,
-- &Value,
-- &presence Presence
}
WITH SYNTAX {
-- ID &id
-- CRITICALITY &criticality
-- TYPE &Value
-- PRESENCE &presence
}

-- *****
--
-- Container for Protocol IEs
--
-- *****

ProtocolIE-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
-- SEQUENCE (SIZE (0..maxProtocolIEs)) OF
-- ProtocolIE-Field {{IEsSetParam}}

```

```

ProtocolIE-Field {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
  id NBAP-PROTOCOL-IES.&id ({IEsSetParam}),
  criticality NBAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),
  value NBAP-PROTOCOL-IES.&Value ({IEsSetParam}{@id})
}

-----
-- Container for Protocol IE Pairs
--
-----

ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
  SEQUENCE (SIZE (0..maxProtocolIEs)) OF
  ProtocolIE-FieldPair {{IEsSetParam}}

ProtocolIE-FieldPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {
  id NBAP-PROTOCOL-IES-PAIR.&id ({IEsSetParam}),
  firstCriticality NBAP-PROTOCOL-IES-PAIR.&firstCriticality ({IEsSetParam}{@id}),
  firstValue NBAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),
  secondCriticality NBAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}),
  secondValue NBAP-PROTOCOL-IES-PAIR.&SecondValue ({IEsSetParam}{@id})
}

-----
-- Container Lists for Protocol IE Containers
--
-----

ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES : IEsSetParam} ::=
  SEQUENCE (SIZE (lowerBound..upperBound)) OF
  ProtocolIE-Container {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
  SEQUENCE (SIZE (lowerBound..upperBound)) OF
  ProtocolIE-ContainerPair {{IEsSetParam}}

-----
-- Container for Protocol Extensions
--
-----

ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
  SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
  ProtocolExtensionField {{ExtensionSetParam}}

ProtocolExtensionField {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
  id NBAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}),
  criticality NBAP-PROTOCOL-EXTENSION.&criticality ({ExtensionSetParam}{@id}),
  extensionValue NBAP-PROTOCOL-EXTENSION.&Extension ({ExtensionSetParam}{@id})
}

```

```

-----
--
-- Container for Private IEs
--
-----
PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::=
  SEQUENCE (SIZE (1..maxPrivateIEs)) OF
  PrivateIE-Field {{IEsSetParam}}

PrivateIE-Field {NBAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE {
  id NBAP-PRIVATE-IES.&id
  ({IEsSetParam}),
  criticality NBAP-PRIVATE-IES.&criticality
  ({IEsSetParam}{@id}),
  value NBAP-PRIVATE-IES.&Value
  ({IEsSetParam}{@id})
}

END

```

9.3.7 Container Definitions

```

-- *****
--
-- Container definitions
--
-- *****

-- R3-001917,CR197
NBAP-Containers { object identifier to be allocated }
NBAP-Containers {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Containers (5) }

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}}

-- R3-002227,CR227
ProtocolIE-Single-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
  ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Field {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
  id NBAP-PROTOCOL-IES.&id ({{IEsSetParam}}),
  criticality NBAP-PROTOCOL-IES.&criticality ({{IEsSetParam}}{@id}),
  value NBAP-PROTOCOL-IES.&Value ({{IEsSetParam}}{@id})
}

```

```

}
-- *****
--
-- Container for Protocol IE Pairs
--
-- *****

ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
  SEQUENCE (SIZE (0..maxProtocolIEs)) OF
    ProtocolIE-FieldPair {{IEsSetParam}}

ProtocolIE-FieldPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {
  id NBAP-PROTOCOL-IES-PAIR.&id ({IEsSetParam}),
  firstCriticality NBAP-PROTOCOL-IES-PAIR.&firstCriticality ({IEsSetParam}{@id}),
  firstValue NBAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),
  secondCriticality NBAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}),
  secondValue NBAP-PROTOCOL-IES-PAIR.&SecondValue ({IEsSetParam}{@id})
}

-- *****
--
-- Container Lists for Protocol IE Containers
--
-- *****

ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES : IEsSetParam} ::=
  SEQUENCE (SIZE (lowerBound..upperBound)) OF
    ProtocolIE-Container {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
  SEQUENCE (SIZE (lowerBound..upperBound)) OF
    ProtocolIE-ContainerPair {{IEsSetParam}}

-- *****
--
-- Container for Protocol Extensions
--
-- *****

ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
  SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
    ProtocolExtensionField {{ExtensionSetParam}}

ProtocolExtensionField {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
  id NBAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}),
  criticality NBAP-PROTOCOL-EXTENSION.&criticality ({ExtensionSetParam}{@id}),
  extensionValue NBAP-PROTOCOL-EXTENSION.&Extension ({ExtensionSetParam}{@id})
}

-- *****
--
-- Container for Private IEs

```



```

--
-- *****
PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::=
  SEQUENCE (SIZE (1..maxPrivateIEs)) OF
  PrivateIE-Field {{IEsSetParam}}

PrivateIE-Field {NBAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE {
  id          NBAP-PRIVATE-IES.&id
  (IEsSetParam),
  criticality NBAP-PRIVATE-IES.&criticality
  (IEsSetParam){@id},
  value       NBAP-PRIVATE-IES.&Value
  (IEsSetParam){@id}
}

END
--9.3.7 Constant Definitions for NBAP
-- *****
--
-- Constant definitions
--
-- *****

NBAP Constants { object identifier to be allocated }
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

id-audit                      INTEGER ::= 0
id-auditRequired              INTEGER ::= 1
id-blockResource              INTEGER ::= 2
id-cellDeletion               INTEGER ::= 3
id-cellReconfiguration        INTEGER ::= 4
id-cellSetup                  INTEGER ::= 5
id-commonMeasurementFailure   INTEGER ::= 6
id-commonMeasurementInitiation INTEGER ::= 7
id-commonMeasurementReport    INTEGER ::= 8
id-commonMeasurementTermination INTEGER ::= 9
id-commonTransportChannelDelete INTEGER ::= 10
id-commonTransportChannelReconfigure INTEGER ::= 11
id-commonTransportChannelSetup INTEGER ::= 12
id-compressedModeCommand      INTEGER ::= 14
id-dedicatedMeasurementFailure INTEGER ::= 16
id-dedicatedMeasurementInitiation INTEGER ::= 17
id-dedicatedMeasurementReport INTEGER ::= 18
id-dedicatedMeasurementTermination INTEGER ::= 19

```

```

id-downlinkPowerControl          INTEGER ::= 20
id-errorIndicationForDedicated   INTEGER ::= 21
id-physicalSharedChannelReconfiguration  INTEGER ::= 37
id-privateMessageForDedicated    INTEGER ::= 22
id-radioLinkAddition             INTEGER ::= 23
id-radioLinkDeletion             INTEGER ::= 24
id-radioLinkFailure              INTEGER ::= 25
id-radioLinkRestoration          INTEGER ::= 26
id-radioLinkSetup                INTEGER ::= 27
id-resourceStatusIndication      INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation  INTEGER ::= 29
id-synchronisedRadioLinkReconfigurationCommit      INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation  INTEGER ::= 31
id-systemInformationUpdate       INTEGER ::= 32
id-unblockResource               INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration  INTEGER ::= 34
id-errorIndicationForCommon      INTEGER ::= 35
id-privateMessageForCommon       INTEGER ::= 36

```

```

-----
--
-- Extension constants
--
-----

```

```

maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs         INTEGER ::= 65535

```

```

-----
--
-- Lists
--
-----

```

```

maxNrOfCodes          INTEGER ::= 10
maxNrOfDLTSs         INTEGER ::= 15
maxNrOfDLCodes       INTEGER ::= 8
maxNrOfErrors        INTEGER ::= 256
maxNrOfTFS           INTEGER ::= 32
maxNrOfTFCs          INTEGER ::= 1024
maxNrOfERLs          INTEGER ::= 16
maxNrOfERLSets       INTEGER ::= maxNrOfERLs
maxNrOfDPCHs         INTEGER ::= 240
maxNrOfSCCPCHs       INTEGER ::= 8
maxNrOfCPCHs         INTEGER ::= 10 -- temporary value
maxNrOfPCPCHs        INTEGER ::= 64
maxNrOfDCHs          INTEGER ::= 128
maxNrOfDSCHs         INTEGER ::= 32
maxNrOfFACHs         INTEGER ::= 8
maxNrOfCCTrCHs       INTEGER ::= 16
maxNrOfPDSCHs        INTEGER ::= 256
maxNrOfPUSCHs        INTEGER ::= 256

```

```

maxNrOfPPDSCHSets ----- INTEGER ::= 256
maxNrOfPUSCHSets ----- INTEGER ::= 256
maxNrOfULTSs ----- INTEGER ::= 15
maxNrOfUSCHs ----- INTEGER ::= 32
maxAPSigNum ----- INTEGER ::= 16
maxNrOfSlotFormatsPRACH ----- INTEGER ::= 8
maxCellInNodeB ----- INTEGER ::= 256
maxCCPinNodeB ----- INTEGER ::= 256
maxCPCHCell ----- INTEGER ::= 64
maxCTFC ----- INTEGER ::= 16777215
maxLocalCellInNodeB ----- INTEGER ::= maxCellInNodeB
maxNoofLen ----- INTEGER ::= 7
maxRACHCell ----- INTEGER ::= maxPRACHCell
maxPRACHCell ----- INTEGER ::= 16
maxPCPCHCell ----- INTEGER ::= 64
maxSCCPCHCell ----- INTEGER ::= 32
maxSCPICHCell ----- INTEGER ::= 32
maxTTI-count ----- INTEGER ::= 4
maxIBSEG ----- INTEGER ::= 16
maxIB ----- INTEGER ::= 32
maxFACHCell ----- INTEGER ::= 256 --- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching ----- INTEGER ::= 256
maxCodeNrComp-1 ----- INTEGER ::= 256
maxNrOfCodeGroups ----- INTEGER ::= 256
maxNrOfTFCIGroups ----- INTEGER ::= 256
maxNrOfTFCI1Combs ----- INTEGER ::= 512
maxNrOfTFCI2Combs ----- INTEGER ::= 1024
maxNrOfTFCI2Combs-1 ----- INTEGER ::= 1023
maxNrOfSF ----- INTEGER ::= 8
maxTGPS ----- INTEGER ::= 6

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp ----- INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd ----- INTEGER ::= 1
id-BCH-InformationItem-AuditRsp ----- INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd ----- INTEGER ::= 8
id-BCCH-ModificationTime ----- INTEGER ::= 9
id-BlockingPriorityIndicator ----- INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD ----- INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD ----- INTEGER ::= 12
id-Cause ----- INTEGER ::= 13
id-CCP-InformationItem-AuditRsp ----- INTEGER ::= 14
id-CCP-InformationList-AuditRsp ----- INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd ----- INTEGER ::= 16
id-Cell-InformationItem-AuditRsp ----- INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd ----- INTEGER ::= 18
id-Cell-InformationList-AuditRsp ----- INTEGER ::= 19
id-CellItem-CM-Rprt ----- INTEGER ::= 20

```

id-CellItem-CM-Rqst	INTEGER ::= 21
id-CellItem-CM-Rsp	INTEGER ::= 22
id-CellParameterID	INTEGER ::= 23
id-CFN	INTEGER ::= 24
id-C-ID	INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD	INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD	INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt	INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst	INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp	INTEGER ::= 33
id-CommonMeasurementType	INTEGER ::= 34
id-CommonPhysicalChannelID	INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
id-CommunicationControlPortID	INTEGER ::= 40
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85

id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-AdjustmentPeriod	INTEGER ::= 129
id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD	INTEGER ::= 142
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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
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id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
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id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
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id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 157
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id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 159
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id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 165
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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
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id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
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id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187
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id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 189
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id-RACHItem-CTCH-SetupRsp	INTEGER ::= 192
id-RACHItem-CM-Rprt	INTEGER ::= 193
id-RACHItem-CM-Rqst	INTEGER ::= 194
id-RACHItem-CM-Rep	INTEGER ::= 195
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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
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id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
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id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
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id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
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id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
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id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
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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
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id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
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id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253

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id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
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id-CPCHItem-CM-Rqst	INTEGER ::= 339
id-CPCHItem-CM-Rep	INTEGER ::= 340
id-CPCHListItem-CTCH-ReconfRqstFDD	INTEGER ::= 341
id-CPCH-Parameters-CTCH-SetupRsp	INTEGER ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 343
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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
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id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	INTEGER ::= 355
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id-GeneralCauseItem-RL-AdditionFailureTDD	INTEGER ::= 365
id-GeneralCauseItem-RL-ReconfFailure	INTEGER ::= 366
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id-PCPCH-ParametersList-CTCH-ReconfRqstFDD INTEGER ::= 379
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id-RLSpecificCauseItem-RL-SetupFailureFDD INTEGER ::= 389
id-RLSpecificCauseItem-RL-SetupFailureTDD INTEGER ::= 390
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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
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