

**TSG-RAN Meeting #7
Madrid, Spain, 13 - 15 March 2000**

TSGRP#7(00)0107

Title: Agreed CRs to TS 25.433

Source: TSG-RAN WG3

Agenda item: 6.4.3

Tdoc_Num	Specification	CR_Num	Revision_Num	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Num
R3-000495	25.433	037		Pre-amble threshold for PRACH	B	agreed	3.0.0	3.1.0
R3-000502	25.433	039		Clarification of the Blocking and Unblocking procedures	F	agreed	3.0.0	3.1.0
R3-000539	25.433	050		Introduction of 'Presence' information element for Extension	F	agreed	3.0.0	3.1.0
R3-000554	25.433	027	1	Modification for number of PCH channels for TDD	F	agreed	3.0.0	3.1.0
R3-000510	25.433	042		Enhancement of the description of the message type IE	F	agreed	3.0.0	3.1.0
R3-000471	25.433	030		Primary CPICH Power	B	agreed	3.0.0	3.1.0
R3-000655	25.433	024	1	CR to 25.433: Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP : PDU Module and correction of the tabular format. (CR24r1)	F	agreed	3.0.0	3.1.0
R3-000737	25.433	073	1	Proposed changes to NBAP to incorporate Node B capacity modelling	C	agreed	3.0.0	3.1.0
R3-000745	25.433	074	1	CR to 25.433: Editorial changes to NBAP for	D	agreed	3.0.0	3.1.0

				better readability the level of indentation has been indicated by arrows.				
R3-000944	25.433	032	1	Update to R3-000478: CR32r1	F	agreed	3.0.0	3.1.0
R3-000790	25.433	045	1	Addition of exception to Error Indication	F	agreed	3.0.0	3.1.0
R3-000797	25.433	067	1	estructuring of System Information Update Request	D	agreed	3.0.0	3.1.0
R3-000904	25.433	076	1	Beginning of DL transmission in one RL	F	agreed	3.0.0	3.1.0
R3-000864	25.433	062	1	UL and DL UARFCN (NBAP)	F	agreed	3.0.0	3.1.0
R3-000796	25.433	065	1	Modification of System Information related IEs	D	agreed	3.0.0	3.1.0
R3-000976	25.433	043	3	Capacity Modeling of Node B	B	agreed	3.0.0	3.1.0
R3-000866	25.433	047	2	Criticality assignment for NBAP	C	agreed	3.0.0	3.1.0
R3-000730	25.433	041	1	Clarification on criticality modelling	F	agreed	3.0.0	3.1.0
R3-000970	25.433	048	2	Removal of Sync Case 3	F	agreed	3.0.0	3.1.0
R3-000735	25.433	046	1	Introduction of 'Repetition Number' into 'Criticality Diagnostics'	C	agreed	3.0.0	3.1.0

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 37

Current Version: **3.0.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #7**
list expected approval meeting # here
↑

for approval
for information

Strategic
non-strategic (for SMG use only)

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

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

Source: RAN-WG3 **Date:** Feb , 2000

Subject: Preamble Threshold for PRACH

Work item:

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

Reason for change: Currently, with the COMMON_TRANSPORT_CHANNEL_SETUP_REQUEST message, a CRNC is able to configure many characteristics of the common channels at setup.

One of the parameters which seems to be forgotten is the pre-amble threshold for PRACH. This CR proposed to add this parameter.

Clauses affected: 9.1.2.1, 9.2.2.39

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

Other comments:

9.1.2 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.1.2.1 FDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Configuration Generation ID	M			
CHOICE common physical channel to be configured				
<i>Secondary CCPCH</i>				
Secondary CCPCH		1		
Common Physical Channel ID	M			
FDD S-CCPCH Offset	M			Corresponds to 25.211: s-CCPCH,k
DL Scrambling Code	M			
FDD DL Channelisation Code Number	M			
TFCS	M			For the DL.
Secondary CCPCH Slot Format	M			
Pilot Bits Used Indicator	M			
Multiplexing Position	M			
STTD Indicator	M			
FACH Parameters	C-choiceCh	0..<maxnoofFACHs>		
Common transport channel ID	M			
Transport Format Set	M			For the DL.
ToAWS	M			
ToAWE	M			
Max FACH Power	M		DL Power	Maximum allowed power on the FACH.
PCH Parameters	C-choiceCh	0..1		
Common Transport Channel ID	M			
Transport Format Set	M			For the DL.
ToAWS	M			
ToAWE	M			
PCH Power	M		DL Power	
PICH Parameters		1		
Common Physical Channel ID	M			
DL Scrambling Code	M			
FDD DL Channelisation Code Number	M			
PICH Power	M		DL Power	Power to be used on the PICH.
PICH Mode	M			Number of PI per frame
STTD Indicator	M			
<i>PRACH</i>				
PRACH		1		

Common Physical Channel ID	M			
Scrambling Code Word Number	M			
TFCS	M			For the UL.
Preamble Signatures	M			
Allowed Slot Format Information		1..<maxSF>		
RACH Slot Format	M			
RACH Sub Channel Numbers	M			
Puncture Limit	M			For the UL
Preamble threshold	M			
RACH Parameters		1		
Common Transport Channel ID	M			
Transport Format Set	M			For the UL.
AICH Parameters		1		
Common Physical Channel ID	M			
DL Scrambling Code	M			
AICH Transmission Timing	M			
FDD DL Channelisation Code Number	M			
AICH Power	M		DL Power	
STTD Indicator	M			

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.
<i>MaxSF</i>	Maximum number of SF for a PRACH

9.2.2.x Preamble threshold

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

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

9.3.3. NBAP PDU Contents Definitions

```

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

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

BEGIN

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

IMPORTS
    AICH-InformationList,
    AICH-Parameters,
    AICH-Power,
    AICH-TransmissionTiming,
    AddOrDeleteIndicator,
    AvailabilityStatus,
    BindingID,
    BlockingPriorityIndicator,
    BurstType,
    CCTrCH-ID,
    CFN,
    CN-CSDomainIdentifier,
    CN-PSDomainIdentifier,
    CRNC-CommunicationContextID,
    Cause,
    CellParameter,
    Cell-Parameter,
    ChipOffset,
    CommonMeasurementType,
    CommonPhysicalChannelID,
    CommonPhysicalChannelType,
    CommonTransportChannelID,
    CommonTransportChannelType,
    CommunicationControlPortID,
    CommunicationControlPortInformationList,
    CompressesModeMethod,
    ConfigurationGenerationID,
    DCH-CombinationIndication,
    DCH-Delete-RL-ReconfReqTDDItem,
    DCH-ID,
    DCH-InformationResponse-RL-setupResFDD,
    DCH-Modify-RL-ReconfPrepTDDItem,
    DL-CCTrCH-ID,
    DL-CodeInformation,
    DL-DPCH-InformationItem-RL-ReconfReqFDD,
    DL-DPCH-SlotFormat,
    DL-FrameType,
    DL-Power,
    DL-ReferencePower,
    DL-ReferencePowerInformationItem,
    DL-ScramblingCode,
    DPCH-ID,
    DPCH-Offset,
    DSCH-ID,
    DSCH-InformationResponse-RL-setupResFDD,
    DSCH-ModifyList-RL-ReconfResp,
    DSCH-SetupList-RL-ReconfResp,
    DSCH-TransportFormatSet,
    DTX-InsertionPoint,
    DTX-InsertionPosition,
    D-FieldLength,
    DedicatedMeasurementType,
    DedicatedMeasurementValue,
    DeltaTPC,
    DiversityControlField,
    DiversityMode,
    FACH-Power,

```

FDD-DL-ChannelisationCodeNumber,
 FDD-SCCPCH-Offset,
 FrameHandlingPriority,
 FrameOffset,
 GapStartingSlotNumber,
 LocalCellID,
 LocalCellInformationList,
 LocalCell-ID,
 Local-CellID,
 MIB-SG-POS,
 MIB-SG-REP,
 MaxFACH-Power,
 MaxNrOfUL-DPDCHs,
 MaxNumberOfUL-DPDCHs,
 MaximumDLPowerCapability,
 MaximumDL-PowerCapability,
 MaximumTransmissionPower,
 MaximumUL-EbN0,
 Maximum-DL-PowerCapability,
 MeasuredCellInfo,
 MeasurementCharacteristics,
 MeasurementID,
 MeasurementType,
 MessagePartScramblingCode,
 MidambleShift,
 Midambleshift,
 MinUL-ChannelisationCodeLength,
 MinimumSpreadingFactor,
 MinimumUL-EbN0,
 NodeB-CommunicationContextID,
 NumberOfChannelElements,
 Offset,
 PCCPCH-Power,
 PCCPCH-TimeSloti,
 PCH-Power,
 PICH-Information,
 PICH-Power,
 PSCH-Power,
 PSCHandPCCPCH-Allocation,
 PSCHandPCCPCH-TimeSlotK,
 PUSCH,
 PagingIndicatorLength,
 PatternDuration,
 PayloadCRC-PresenceIndicator,
 PilotBitsUsedIndicator,
 PowerControlMode,
 PowerOffset,
 PowerResumeMode,
 PreambleScramblingCode,
 PreambleSignatures,
[PreambleThreshold](#),
 PrimaryCPICH-Power,
 PrimarySCH-Power,
 PrimaryScramblingCode,
 Primary-ScramblingCode,
 PropagationDelay,
 PunctureLimit,
 RACH-SlotFormat,
 RACH-SubChannelNumbers,
 RLC-Mode,
 RL-ID,
 RL-Information,
 RL-InformationItem,
 RL-InformationItem-RL-SetupReqTDD,
 RL-InformationList-DMeasureRequest,
 RL-ReconfigurationFailure-RL-ReconfFailItem,
 RadioLinkInformation-RL-ReconfReqTDD,
 RepetitionLength,
 RepetitionPeriod,
 ReportCharacteristics,
 ResourceOperationState,
 ResourceOperationalState,
 SAI,
 SFN,
 SIB-SG-POS,
 SIB-SG-REP,
 SSDT-CellIdentity,
 SSDT-CellIdentityLength,

SSDT-Cell-IDLength,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
S-CCPCH-Offset,
S-CCPCH-Power,
S-FieldLength,
ScramblingCode,
ScramblingCodeChange,
SecondaryCCPCH-SlotFormat,
SecondaryCPICH-Power,
SecondarySCH-Power,
ShutdownTimer,
SynchronisationMethod,
TDDChipOffset,
TDD-ChannelisationCode,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TSTD-Indicator,
T-Cell,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionGapDistance,
TransmissionGapPeriod,
TransmitGapLength,
TransmitGapPositionMode,
TransportFormatCombinationSet,
TransportFormatSet,
TransportLayerAddress,
UARFCN,
C-ID,
UL-CCTrCHInformation,
UL-CCTrCH-ID,
UL-DPCCH-SlotFormat,
UL-FP-Mode,
UL-InterferenceLevel,
UL-PunctureLimit,
UL-ScramblingCode,
UplinkEbNo
FROM NBAP-IEs

```

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

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

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID                CRITICALITY ignore TYPE C-ID                PRESENCE
mandatory }|
    { ID id-ConfigurationGenerationID    CRITICALITY ignore TYPE ConfigurationGenerationID
PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCHsetup-Req-FDD    CRITICALITY ignore TYPE
CommonPhysicalChannelType-CTCHsetup-Req-FDD    PRESENCE mandatory
},
    ...
}

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

CommonPhysicalChannelType-CTCHsetup-Req-FDD ::= ENUMERATED {
    secondary-CCPCH-parameters-CTCHsetup-Req-FDD                Secondary-CCPCH-
parameters-CTCHsetup-Req-FDD,
    pRACH-parameters-CTCHsetup-Req-FDD                PRACH-parameters-CTCHsetup-Req-FDD
}

Secondary-CCPCH-parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    fdd-SCCPCH-Offset          FDD-SCCPCH-Offset,
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    tFCS                        TFCS,
    secondaryCCPCH-SlotFormat    SecondaryCCPCH-SlotFormat,
    pilotBitsUsedIndicator       PilotBitsUsedIndicator,
    multiPlexingPosition         MultiPlexngPosition,
    sTTD-Indicator               STTD-Indicator,
    commonTransportChannelType    CommonTransportChannelType-CTCHsetup-
Req-FDD
}

CommonTransportChannelType-CTCHsetup-Req-FDD ::= ENUMERATED {
    fACH-ParametersList        FACH-ParametersList-CTCHsetup-Req-FDD,
    pCH-Parameters             PCH-Parameters-CTCHsetup-Req-FDD,
    bothCH-Parameters          BothCH-Parameters-CTCHsetup-Req-FDD
}

BothCH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    fACH-ParametersList        FACH-ParametersList-CTCHsetup-Req-FDD,
    pCH-Parameters             PCH-Parameters-CTCHsetup-Req-FDD
}

FACH-ParametersList-CTCHsetup-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
    ProtocolIE-Container {{ FACH-ParametersListItemIE-CTCHsetup-Req-FDD }}

FACH-ParametersListItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListItem-CTCHsetup-Req-FDD    CRITICALITY ignore TYPE FACH-
ParametersListItem-CTCHsetup-Req-FDD    PRESENCE mandatory },
    ...
}

FACH-ParametersListItem-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    transportFormatSet          TransportFormatSet,
    toAWS                        ToAWS,
    toAWE                        ToAWE,
    maxFACH-Power               DL-Power
}

```

```

PCH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    transportFormatSet          TransportFormatSet,
    toAWS                        ToAWS,
    toAWE                        ToAWE,
    pCH-Power                    DL-Power,
    PICH-Parameters              PICH-Parameters-CTCHsetup-Req-FDD
}

PICH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    dl-ScramblingCode            DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    pICH-Power                    DL-Power,
    pICH-Mode                     PICH-Mode,
    sTTD-Indicator                STTD-Indicator
}

PRACH-parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    tFCS                          TFCS,
    preambleSignatures            PreambleSignatures,
    scramblingCodeWord            ScramblingCodeWord
allowedSlotFormatInformationList AllowedSlotFormatInformationList-
CTCHsetup-Req-FDD,
    rACH-SubChannelNumbers        RACH-SubChannelNumbers,
    ul-punctureLimit              PunctureLimit,
    preambleThreshold              PreambleThreshold,
    rACH-Parameters                RACH-Parameters-CTCHsetup-Req-
FDD,
    aICH-Parameters                AICH-Parameters-CTCHsetup-Req-
FDD
}

AllowedSlotFormatInformationList-CTCHsetup-Req-FDD ::= SEQUENCE (SIZE (1..maxSF)) OF ProtocolIE-
Container {{AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD}}

AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
    { ID id-AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD
    CRITICALITY ignore TYPE AllowedSlotFormatInformationItem-CTCHsetup-
Req-FDD PRESENCE mandatory },
    ...
}

AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD ::= SEQUENCE {
    rACHSlotFormat                RACH-SlotFormat
}

RACH-Parameters ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportFormatSet            TransportFormatSet
}

AICH-Parameters ::= SEQUENCE {
    commonPhysicalChannelID        CommonPhysicalChannelID,
    dl-ScramblingCode              DL-ScramblingCode,
    aICH-TransmissionTiming        AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    aICH-Power                      DL-Power,
    sTTD-Indicator                  STTD-Indicator
}

```

9.3.4. NBAP Information Elements

```

-----
-- P
-----

PagingIndicatorLength ::= ENUMERATED {
ind-length2,
ind-length4,
ind-length8
}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
cRC-Included,
cRC-NotIncluded
}

PD ::= INTEGER(0..2047)

PICH-Mode ::= ENUMERATED {
noofPI18,
noofPI36,
noofPI72,
noofPI144
}

PilotBitsUsedIndicator ::= ENUMERATED {
pilot-bits-used,
pilot-bits-not-used
}

PowerControlMode ::= ENUMERATED {
pcm0,
pcml,
...
}

-- Chips. Step size is 3 chips. 0=0 chips, 1=3 chips .. --
--** TODO. -15..40 is transformed to 0..55. 0.1 steps gives 0..550 **
PowerOffset ::= INTEGER (0..24)

PowerResumeMode ::= ENUMERATED {
prm0,
prml,
...
}

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

PreambleScramblingCode ::= INTEGER (0..4095)

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

-- 0= 0dB, 1 = 0.5 dB,..., 72= 36dB
PreambleThreshold ::= INTEGER (0..72)

-- Unit dBm, -15 to 40, Granularity 0.1 dB
-- cpich-power1 indicates 5 dB
PrimaryCPICH-Power ::= ENUMERATED {
cpich-power1,
cpich-power2,
...
}

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)

ProtocolCause ::= 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  
}
```

```
-- PCCPCH Power unit dBm  
-- PCCPCH Power step 0.1dBm  
PCCPCH-power ::= INTEGER (-15..40)
```

```
PSCH-TimeSlot ::= INTEGER (0..6)
```

```
PSCH-Power ::= INTEGER (0..511)
```

```
PUSCH-Offset ::= INTEGER (0..255)
```

Source: RAN-WG3

Title: Clarification of the Blocking and Unblocking procedures

Agenda Item: 16.5.d

Document for: Approval

Discussion

This is the result of off line discussions regarding contribution R3-000019 during R3#10.

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 039

Current Version: **3.0.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #7** for approval
list expected approval meeting # here ↑ for information

strategic
non-strategic (for SMG use only)

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

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

Source: RAN-WG3 **Date:** 2000-02-28

Subject: Clarification of the Blocking and Unblocking procedures

Work item:

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

Reason for change: The Block Resource procedure and Unblock Resource procedure have not taken blocking and unblocking of SCHs, CPICHs and Primary CCPCH into account.

When a cell is blocked in the CRNC, the CRNC removes traffic on all channels in the cell. However, the PSCH, the SCHs, the CPICHs and the Primary CCPCH do not carry traffic in the sense of connections, and their activation and deactivation are controlled by the Node B. The only way that the CRNC can control the deactivation is to delete the cell. That is not a feasible way as it takes away the possibility to report that the cell is unblocked.

Therefore it is proposed that the Node B may deactivate the SCHs, the CPICHs and the Primary CCPCH, when a BLOCK RESOURCE RESPONSE message is received. Deactivated PSCH, SCHs, CPICHs and Primary CCPCH shall be activated before the UNBLOCK RESOURCE INDICATION message is sent to the CRNC

Clauses affected: 8.2.4 and 8.2.5

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

Other comments:



help.doc

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

8.2.4 Block Resource

8.2.4.1 General

The Node B initiates this procedure to request the CRNC to prohibit the usage of the specified logical resources.

[The logical resource that can be blocked is cell.](#)

8.2.4.2 Successful Operation

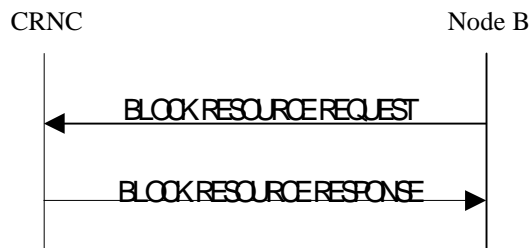


Figure 6: Block Resource procedure, Successful case

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

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

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

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

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates 'Low Priority', the CRNC shall prohibit the use of the logical resources when the resources become idle. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

~~[When the logical resource indicated is a cell, all associated physical channels and transport channels are blocked.](#)~~

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

[Reconfiguration of logical resources and change of System Information can be done, even when the logical resources are blocked.](#)

Interactions with the Unblock Resource procedure:

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

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

8.2.4.3 Unsuccessful Operation

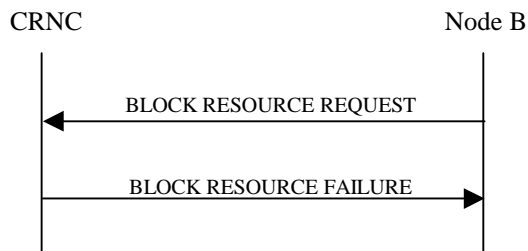


Figure 7: Block Resource procedure, Unsuccessful case

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

Typical cause values are as follows:

Protocol Cause

- Semantic error

Miscellaneous Cause

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

8.2.4.4 Abnormal Conditions

-

8.2.5 Unblock Resource

8.2.5.1 General

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

[The logical resource that can be unblocked is cell.](#)

8.2.5.2 Successful Operation

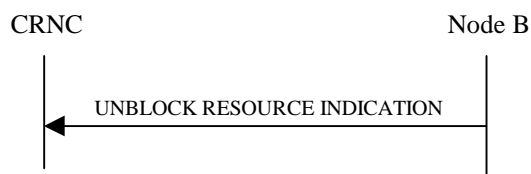


Figure 8: Unblock Resource procedure, Successful case

The procedure is initiated with an UNBLOCK RESOURCE INDICATION message sent from the Node B to the CRNC. [Node B shall enable \[TDD - PSCH\], \[FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, the Secondary CPICH\(s\) \(if present\)\] and the Primary CCPCH that had been disabled due to the preceding Block](#)

[Resource procedure before sending the UNBLOCK RESOURCE INDICATION message](#). Upon reception of the UNBLOCK RESOURCE INDICATION message, the CRNC may permit the use of the logical resources.

When the logical resource indicated is a-cell, all associated physical channels and transport channels are unblocked.

8.2.5.3 Abnormal Conditions

-

CHANGE REQUEST

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

25.433 CR 050

Current Version: **3.0.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN#7**
list expected approval meeting # here
↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

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

Source: RAN-WG3 **Date:** 22 Feb 2000

Subject: Introduction of 'Presence' Information Element for Extension Containers (ASN.1)

Work item:

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

Reason for change: Even if the 'Presence' IE has only documentary character for the ASN.1 code it should be in the Extension Container (it is already in the Standard Protocol Container).

Clauses affected: 9.3.7 Container Definitions

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

Other comments:



help.doc

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

9.3.7 Container Definitions

```

▪
▪
▪
-- *****
--
-- 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 Extensions
--
-- *****

NBAP-PRIVATE-EXTENSION ::= CLASS {
    &id      PrivateExtensionID,
    &criticality  Criticality,
    &Extension
    &presence      Presence
}
WITH SYNTAX {
    ID      &id
    CRITICALITY &criticality
    EXTENSION &Extension
    PRESENCE &presence
}

```

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 042

Current Version: **3.0.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #7**

list expected approval meeting # here ↑

for approval
 for information

Strategic
 non-strategic (for SMG use only)

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

Proposed change affects:

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

Source:

RAN-WG3

Date:

28th Feb. – 3rd
 March 2000

Subject:

Enhancement of the description of the Message Type IE

Work item:

Category:

(only one category shall be marked with an X)

F Correction

A Corresponds to a correction in an earlier release

B Addition of feature

C Functional modification of feature

D Editorial modification

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Release:

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

Reason for change:

In the current ASN.1 part of the specification a message is identified by its Procedure Code in combination with the "type of message" (Initiating, Successful Outcome, Unsuccessful Outcome, Outcome) and the mode (FDD or TDD). In the Tabular Format a message is identified by its *Message Type IE*. However, there is no clear connection between the two different types of identification. Further more, chapter 10 (Handling of Unknown, Unforeseen and Erroneous Protocol Data) is based on the usage of the Procedure Code and the "type of message".

In this CR the Message Type IE is modified to achieve a better alignment between the different parts of the specification and thus ease the understanding of the specification. The modification is to describe the Message Type IE in a way that connects the ASN.1 and chapter 10 with the Tabular Format.

Clauses affected:

9.2.1.41

Other specs

Other 3G core specifications

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

→ List of CRs: 25.413 v3.0.0 CR-026,
 25.423 v3.0.0 CR-027

affected:

Other GSM core specifications

MS test specifications

BSS test specifications

O&M specifications

→ List of CRs:
 → List of CRs:
 → List of CRs:
 → List of CRs:

Other comments:

9.2.1.41 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Type				
Procedure ID		1		
Procedure Code Message Type	<u>M</u>		<p>ENUMERATED (</p> <p>COMMON TRANSPORT CHANNEL SETUP-REQUEST,</p> <p>COMMON TRANSPORT CHANNEL SETUP RESPONSE,</p> <p>COMMON TRANSPORT CHANNEL SETUP FAILURE,</p> <p>COMMON TRANSPORT CHANNEL RECONFIGURATION-REQUEST,</p> <p>COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE,</p> <p>COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE,</p> <p>COMMON TRANSPORT CHANNEL DELETION REQUEST,</p> <p>COMMON TRANSPORT CHANNEL DELETION RESPONSE,</p> <p>BLOCK RESOURCE-REQUEST,</p> <p>BLOCK RESOURCE RESPONSE,</p> <p>BLOCK RESOURCE FAILURE,</p> <p>UNBLOCK RESOURCE-INDICATION,</p> <p>AUDIT REQUIRED-INDICATOR,</p> <p>AUDIT-REQUEST,</p> <p>AUDIT-RESPONSE</p> <p>COMMON MEASUREMENT INITIATION-REQUEST,</p> <p>COMMON MEASUREMENT INITIATION RESPONSE,</p> <p>COMMON MEASUREMENT INITIATION FAILURE,</p> <p>COMMON MEASUREMENT REPORTING,</p> <p>COMMON MEASUREMENT TERMINATION-REQUEST,</p> <p>COMMON MEASUREMENT TERMINATION FAILURE INDICATION,</p> <p>CELL SETUP-REQUEST,</p> <p>CELL SETUP RESPONSE,</p> <p>CELL SETUP FAILURE,</p> <p>CELL RECONFIGURATION-REQUEST,</p> <p>CELL RECONFIGURATION RESPONSE,</p> <p>CELL RECONFIGURATION FAILURE,</p> <p>CELL DELETION-REQUEST,</p> <p>CELL DELETION RESPONSE,</p> <p>RESOURCE STATUS INDICATION,</p> <p>SYSTEM INFORMATION UPDATE-REQUEST,</p> <p>SYSTEM INFORMATION UPDATE RESPONSE,</p> <p>SYSTEM INFORMATION UPDATE FAILURE,</p> <p>RL SETUP-REQUEST,</p> <p>RL SETUP RESPONSE,</p> <p>RL SETUP FAILURE,</p> <p>RL ADDITION-REQUEST,</p> <p>RL ADDITION RESPONSE,</p> <p>RL ADDITION FAILURE,</p> <p>SYNCHRONISED RL RECONFIGURATION PREPARATION,</p> <p>RL RECONFIGURATION READY,</p> <p>RL RECONFIGURATION FAILURE,</p> <p>SYNCHRONISED RL RECONFIGURATION COMMIT,</p> <p>SYNCHRONISED RL RECONFIGURATION CANCELLATION,</p> <p>UNSYNCHRONISED RL RECONFIGURATION REQUEST,</p> <p>RL RECONFIGURATION RESPONSE,</p> <p>RL DELETION-REQUEST,</p> <p>RL DELETION RESPONSE,</p> <p>DL POWER CONTROL-REQUEST,</p> <p>DEDICATED MEASUREMENT INITIATION-REQUEST,</p> <p>DEDICATED MEASUREMENT INITIATION RESPONSE,</p>	Future extensions shall be possible

			DEDICATED MEASUREMENT INITIATION FAILURE, DEDICATED MEASUREMENT REPORTING, DEDICATED MEASUREMENT TERMINATION REQUEST, DEDICATED MEASUREMENT TERMINATION FAILURE INDICATION, RL FAILURE INDICATION, RL RESTORATION INDICATION, COMPRESSED MODE PREPARATION, COMPRESSED MODE READY, COMPRESSED MODE COMMIT, COMPRESSED MODE FAILURE, COMPRESSED MODE CANCELLATION ERROR INDICATION, ...)	
<u>Dmode</u>	<u>M</u>		<u>ENUMERATED (FDD, TDD, Common)</u>	<u>Common = common to FDD and TDD.</u>
<u>Type of Message</u>	<u>M</u>		<u>ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)</u>	

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 030

Current Version: **3.0.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #7**
list expected approval meeting # here

For approval for information

Strategic
non-strategic (for SMG use only)

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

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

Source: RAN-WG3 **Date:** Feb 22, 2000

Subject: Modification of the dynamic range of primary CPICH power.

Work item: 16.3.L

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

Reason for change: The dynamic range of the primary CPICH power needs to be changed to -10..50 dBm in order to be aligned with the Maximum DL Power Capability (0..50 dBm) in 25.433.

Clauses affected: 9.2.2.26, 9.3.4.

Other specs affected: Other 3G core specifications → List of CRs: 25.331:CRxxx
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments:

9.2.2.26 Primary CPICH Power

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

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH power			Enumerated (-105, ..., 450)	Unit dBm Granularity 0.1 dB

9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxTFcount,
    maxnoofTFCS,
    maxCTF-1,
    maxRM,

FROM NBAP-Constants;

.
.
.
Several IEs Skipped
.
.
.

-----
-- P
-----

PagingIndicatorLength ::= ENUMERATED {
ind-length2,
ind-length4,
ind-length8
}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
cRC-Included,
cRC-NotIncluded
}

PD ::= INTEGER(0..2047)

PICH-Mode ::= ENUMERATED {
noofPI18,

```

```

noofPI36,
noofPI72,
noofPI144
}

PilotBitsUsedIndicator ::= ENUMERATED {
pilot-bits-used,
pilot-bits-not-used
}

PowerControlMode ::= ENUMERATED {
pcm0,
pcml,
...
}

-- Chips. Step size is 3 chips. 0=0 chips, 1=3 chips .. --
--** TODO. -15..40 is transformed to 0..55. 0.1 steps gives 0..550 **
PowerOffset ::= INTEGER (0..24)

PowerResumeMode ::= ENUMERATED {
prm0,
prml,
...
}

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

PreambleScramblingCode ::= INTEGER (0..4095)

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

-- Unit dBm, -15 to 40, Granularity 0.1 dB
-- epich-power1 indicates 5 dB
PrimaryCPICH-Power ::= INTEGER (-100..500)ENUMERATED {
-- step 0.1 (Range -10.0..50.0) Unit is dBm epich-power1,
epich-power2,
...
}

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)

ProtocolCause ::= 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  
}
```

```
-- PCCPCH Power unit dBm  
-- PCCPCH Power step 0.1dBm  
PCCPCH-power ::= INTEGER (-15..40)
```

```
PSCH-TimeSlot ::= INTEGER (0..6)
```

```
PSCH-Power ::= INTEGER (0..511)
```

```
PUSCH-Offset ::= INTEGER (0..255)
```

```
-----  
-- R  
-----
```

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 024r1

Current Version: **3.0.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#7**

list expected approval meeting # here ↑

for approval
for information

X

strategic
non-strategic

(for SMG use only)

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

Proposed change affects:

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

Source:

R-WG3

Date:

28 February
2000

Subject:

CR to 25.433: Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP : PDU Module and correction of the tabular format.

Work item:

Category:

(only one category shall be marked with an X)

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

Release:

- Phase 2
- Release 96
- Release 97
- Release 98
- Release 99
- Release 00

Reason for change:

- This CR is to provides the NBAP ASN.1 descripton (PDU Module) with the syntax checking. And also alignment with the RNSAP ASN.1 description.
- A mistake was found in the tabular format related to the IE of "DTX Insert Point" in the Radio Link Reconfiguration Preparation FDD message while doing the syntax checking. The correction to the tabular format is shown in this CR, i.e. changing the "DTX Insert Point" to "Multiplexing Position".

Clauses affected:

9.1.41.1, 9.3.3

Other specs affected:

- Other 3G core specifications
- Other GSM core specifications
- MS test specifications
- BSS test specifications
- O&M specifications

- List of CRs:
- List of CRs:
- List of CRs:
- List of CRs:
- List of CRs:

Other comments:



help.doc

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

9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
UL DPCH Information		0..1		
UL Scrambling code	O			
Min UL Channelisation Code Length	O			
Max Number of UL DPDCHs	C – CodeLen			
Puncture Limit	O			For UL
TFCS	O			
UL DPCH Slot Format	O			
SSDT Cell Identity Length	O			
S-Field Length	O			
DL DPCH Information		0..1		
TFCS	O			
DL DPCH Slot Format	O			
TFCI Signalling Mode	O			
TFCI presence	C-Slot Format			
<u>DTX Insertion Point Multiplexing Position</u>	O			
DCHs to Modify		0..<maxnoof DCHs>		
DCH ID	M			
Transport Format Set	O			For the UL.
Transport Format Set	O			For the DL.
Frame Handling Priority	O			
UL FP Mode	O			
ToAWS	O			
ToAWE	O			
DCHs to Add		0..<maxnoof DCHs>		
DCH ID	M			
DCH Combination Ind	O			
RLC Mode	M			
Transport Format Set	M			For the UL.
Transport Format Set	M			For the DL.
Frame Handling Priority	M			
Payload CRC Presence Indicator	M			
UL FP Mode	M			
ToAWS	M			
ToAWE	M			
DCHs to Delete		0..<maxnoof DCHs>		
DCH ID	M			
DSCH to modify		0..1		
Transport Format Set	O			For the DL.
RL ID	O			
Frame Handling Priority	O			
ToAWS	O			

ToAWE	O			
DSCH to add		0..1		
Transport Format Set	M			For the DL.
RL ID	M			
Frame Handling Priority	M			
ToAWS	M			
ToAWE	M			
DSCH to Delete		0..1		
RL ID	M			
RL Information		0..<maxnoof RLs>		
RL ID	M			
DL Code Information		0..<maxnoof DLCodes<		
DL Scrambling Code	O			
FDD DL Channelisation Code Number	O			
Maximum DL Power	O		DL Power	
Minimum DL Power	O		DL Power	
SSDT Indication	O			
SSDT Cell Identity	C – SSDTIndON			

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.

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

9.3.3 NBAP PDU Content Definitions

```

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

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

BEGIN

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

IMPORTS
  AICH-InformationList,
  AICH-Parameters,

```

~~AICH-Power,~~
~~AICH-TransmissionTiming,~~
~~AddOrDeleteIndicator,~~
~~AICH-TransmissionTiming,~~
~~AvailabilityStatus,~~
~~BCCH-ModificationTime,~~
~~BindingID,~~
~~BlockingPriorityIndicator,~~
~~BurstType,~~
~~Cause,~~
~~CCTrCH-ID,~~
~~Cell-ID-Length,~~
~~CellParameterID,~~
~~CFN,~~
~~CN-CSDomainIdentifier,~~
~~CN-PSDomainIdentifier,~~
~~CRNC-CommunicationContextID,~~
~~Cause,~~
~~CellParameter,~~
~~Cell-Parameter,~~
~~ChipOffset,~~
~~C-ID,~~
~~CommonMeasurementType,~~
~~CommonMeasurementValue,~~
~~CommonPhysicalChannelID,~~
~~CommonPhysicalChannelType,~~ ~~CommonTransportChannelID,~~
~~CommunicationControlPortID,~~
~~CommunicationControlPortInformationList,~~ ~~CompresseddsModeMethod,~~
~~ConfigurationGenerationID,~~
~~CriticalityDiagnostics,~~
~~CRNC-CommunicationContextID,~~
~~DCH-CombinationIndication,~~
~~DCH-Delete-RL-ReconfReqTDDItem,~~ ~~DCH-ID,~~ ~~DCH-InformationResponse-RL-setupResFDD,~~
~~DCH-Modify-RL-ReconfPrepTDDItem,~~
~~DL-CCTrCH-ID,~~ ~~DL-CodeInformation,~~ ~~DedicatedMeasurementObjectType,~~
~~DedicatedMeasurementType,~~
~~DedicatedMeasurementValue,~~
~~Delta-TPC,~~
~~D-FieldLength,~~
~~DiversityControlField,~~
~~DiversityMode,~~
~~DL-DPCH-SlotFormat,~~
~~DL-FrameType,~~
~~DL-Power,~~
~~DL-ScramblingCode,~~
~~DPCH-ID,~~
~~DSCH-ID,~~
~~DSCH-TFS,~~
~~DSCH-TFCS,~~ ~~DSCH-InformationResponse-RL-setupResFDD,~~
~~DSCH-ModifyList-RL-ReconfResp,~~
~~DSCH-SetupList-RL-ReconfResp,~~
~~DSCH-TransportFormatSet,~~
~~DTX-InsertionPoint,~~
~~DTX-InsertionPosition,~~
~~D-FieldLength,~~
~~DedicatedMeasurementType,~~
~~DedicatedMeasurementValue,~~
~~DeltaTPC,~~
~~DiversityControlField,~~
~~DiversityMode,~~
~~FACH-Power,~~
~~FDD-DL-ChannelisationCodeNumber,~~
~~FDD-S-CCPCH-Offset,~~
~~FrameHandlingPriority,~~
~~FrameOffset,~~
~~GapPeriod,~~
~~GapPositionMode,~~
~~GapStartingSlotNumber,~~
~~IB-SG,~~
~~IB-SG-POS,~~
~~IB-SG-REP,~~
~~IB-Type,~~
~~IndicationType,~~
~~LocalCellID,~~
~~LocalCellInformationList,~~
~~LocalCell-ID,~~
~~Local-Cell-ID,~~
~~MIB-SG-POS,~~

~~MIB-SC-REP,~~
~~MaxFACH-Power,~~
~~MaxNrOfUL-DPDCHs,~~
~~MaxNumberOfUL-DPDCHs,~~
~~MaximumDLPowerCapability,~~
~~MaximumDL-PowerCapability,~~
~~MaximumTransmissionPower,~~
~~MaximumUL-EbN0,~~
~~Maximum-DL-PowerCapability,~~
~~MaximumTransmissionPower,~~
~~MaxNrOfUL-DPDCHs,~~
~~MaxPRACH-MidambleShifts,~~
~~MeasuredCellInfo,~~
~~MeasurementCharacteristics,~~
~~MeasurementID,~~
~~MeasurementType-MessagePartScramblingCode,~~
~~MidambleShift,~~
~~MidambleShift,MinUL-ChannelisationCodeLength,~~
~~MinimumSpreadingFactor,~~
~~MinimumUL-EbN0,~~
~~MinUL-ChannelisationCodeLength,~~
~~MultiplexingPosition,~~
~~NodeB-CommunicationContextID,~~
~~NumberOfChannelElements,~~
~~Offset~~
~~PCCPCH-Power,~~
~~PCCPCH-TimeSloti,~~
~~PCH-Power,~~
~~PICH-Information,~~
~~PICH-Power,~~
~~PSCH-Power,~~
~~PSCHandPCCPCH-Allocation,~~
~~PSCHandPCCPCH-TimeSlotK,~~
~~PUSCH, PagingIndicatorLength,~~
~~PatternDuration, PayloadCRC-PresenceIndicator,~~
~~PCCPCH-Power,~~
~~PD,~~
~~PICH-Mode,~~
~~PilotBitsUsedIndicator,~~
~~PowerControlMode,~~
~~PowerOffset,~~
~~PowerResumeMode,~~
~~PRACH-Midamble,~~
~~PreambleScramblingCode,~~
~~PreambleSignatures,~~
~~PrimaryCPICH-Power,~~
~~PrimarySCH-Power, PrimaryScramblingCode,~~
~~Primary-ScramblingCode, PropagationDelay,~~
~~PSCH-TimeSlot,~~
~~PSCH-Power,~~
~~PunctureLimit,~~
~~RACH-SlotFormat,~~
~~RACH-SubChannelNumbers,~~
~~RLC-Mode,~~
~~RL-ID,~~
~~RL-Information,~~
~~RL-InformationItem,~~
~~RL-InformationItem-RL-SetupReqTDD,~~
~~RL-InformationList-DMeasureRequest,~~
~~RL-ReconfigurationFailure-RL-ReconfFailItem,~~
~~RadioLinkInformation-RL-ReconfReqTDD,~~
~~RepetitionLength,~~
~~RepetitionPeriod,~~
~~ReportCharacteristics,~~
~~ResourceOperationState, ResourceOperationalState,~~
~~RLC-Mode,~~
~~RL-ID,~~
~~SAI,~~
~~SFN,~~
~~SIB-SC-POS,~~
~~SIB-SC-REP,~~
~~SSTD-CellIdentity,~~
~~SSTD-CellIdentityLength,~~
~~SSTD-Cell-IDLength,~~
~~SSTD-Indication,~~
~~SSTD-SupportIndicator,~~
~~STTD-Indicator,~~
~~S-CCPCH-Offset,~~

~~S-CCPCH-Power,~~
~~S-FieldLength,~~
 ScramblingCodeChange,
~~ScramblingCodeWordNumber,~~
 SecondaryCCPCH-SlotFormat,
~~SecondaryCPICH-Power,~~
~~SecondarySCH-Power,~~
~~SegmentType,~~
~~S-FieldLength,~~
~~SFN,~~
 ShutdownTimer,
~~SynchronisationMethod,~~
~~SIB-DeletionIndicator,~~
~~SIB-Originator,~~
~~SlotFormat,~~
~~SSDT-Cell-Identity,~~
~~SSDT-CellID-Length,~~
~~SSDT-Indication,~~
~~STTD-Indicator,~~
~~SSDT-SupportIndicator,~~
~~SyncCase,~~
~~SynchronisationMethod,~~
~~T-Cell,~~
~~TDDChipOffset,~~
 TDD-ChannelisationCode,
~~TDD-PhysicalChannelOffset,~~
~~TFCI-Coding,~~
~~TFCI-Presence,~~
~~TFCI-SignallingMode,~~
~~TransportFormatCombinationSet,~~
~~TFCS,~~
~~TFCS-CTFC,~~
~~TGD,~~
~~TGL,~~
~~TSTD-Indicator,~~
~~T-Cell,~~
 TimeSlot,
 TimeSlotDirection,
 TimeSlotStatus,
 ToAWE,
 ToAWS,
~~TransmissionGapDistance,~~
~~TransmissionGapPeriod,~~
~~TransmitGapLength,~~
~~TransmitGapPositionMode,~~
~~TransmissionDiversityApplied,~~
~~TransmitDiversityIndicator,~~
~~TransportFormatCombinationSet~~
~~TransportFormatSet,~~
 TransportLayerAddress,
~~TSTD-Indicator,~~
~~UARFCN,-C-ID,~~
~~UL-DL-CompressedModeSelection,~~
~~UL-DeltaEbNo,~~
~~UL-DeltaEbNo-after,~~
~~UL-CCTrCHInformation,~~
~~UL-CCTrCH-ID,~~
~~UL-DPCCH-SlotFormat,~~
~~UL-EbNo,~~
~~UL-FP-Mode,~~
~~UL-InterferenceLevel,~~
~~UL-PunctureLimit,~~
~~UL-ScramblingCode,~~
~~UplinkEbNo~~
~~USCH-ID~~

FROM NBAP-IES

```

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

```

FROM NBAP-Containers

~~id-AICH-ParametersItem-CTCH-ReconfRqstFDD,~~
~~id-AICH-ParametersList-CTCH-ReconfRqstFDD,~~

~~id-AICH-Information-ResourceStatIndItem,~~
~~id-AICH-ParametersList,~~
~~id-AICH-ParametersListItem,~~
~~id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD,~~
~~id-AllowedSlotFormatInformationListItem-CTCHsetup-Req-FDD,~~
~~id-BCCH-ModificationTime,~~
~~id-BlockingPriorityIndicator,~~
~~id-CCTrCH-ParametersList,~~
~~id-CCTrCH-ParametersListItem,~~
~~id-CFN,~~
~~id-CRNC-CommunicationContextID,~~
~~id-CRNCCommunicationContextID,~~
~~id-Cause,~~
~~id-CCP-InformationItem-AuditRsp,~~
~~id-CCP-InformationList-AuditRsp,~~
~~id-Cell-ParametersItem-AuditRqst,~~
~~id-Cell-ParametersList-AuditRqst,~~
~~id-Cell-InformationItem-AuditRsp,~~
~~id-Cell-InformationList-AuditRsp,~~
~~id-Cell-Information-ResourceStatIndItem,~~
~~id-Cell-InformationItem,~~
~~id-Cell-InformationList,~~
~~id-Cell-Parameter,~~
~~id-Cell-ParametersItem,~~
~~id-Cell-ParametersList,~~
~~id-CellParameterID,~~
~~id-CFN,~~
~~id-C-ID,~~
~~id-CommonMeasurementObjectType-CM-Rprt,~~
~~id-CommonMeasurementObjectType-CM-Rqst,~~
~~id-CommonMeasurementObjectType-CM-Rsp,~~
~~id-CommonMeasurementType,~~
~~id-CommonPhysicalChannelID,~~
~~id-CommonPhysicalChannelType-CTCH-ReconfRqstTDD,~~
~~id-CommonPhysicalChannelType-CTCH-Ssetup-Rqsteq-FDD,~~
~~id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,~~
~~id-CommonPhysicalChannelType-CTCHsetup-Response,~~
~~id-CommonTransportChannelType-CTCH-ReconfRqstTDD,~~
~~id-CommonTransportChannelType-CTCH-SetupRqstTDD,~~
~~id-CommonTransportChannelType-CTCH-SetupRsp,~~
~~id-ConfigurationGenerationID,~~
~~id-CommunicationControlPort-InformationItem,~~
~~id-CommunicationControlPortID,~~
~~id-CommunicationControlPortInformation-ResourceStatIndItem,~~
~~id-CommunicationControlPortInformationList,~~
~~id-CompressedModeMethod,~~
~~id-ConfigurationGenerationID,~~

~~id-CRNC-CommunicationContextID,~~
~~id-CriticalityDiagnostics,~~
~~id-DCH-AddItem-RL-ReconfPrepFDDItem,~~
~~id-DCH-AddItem-RL-ReconfPrepTDDItem,~~
~~id-DCH-Add-RL-ReconfReadyItem,~~
~~id-DCH-AddItem-RL-ReconfRqsteqFDDItem,~~
~~id-DCH-AddItem-RL-ReconfRqsteqTDDItem,~~
~~id-DCH-AddItem-RL-ReconfResp,~~
~~id-DCH-AddList-RL-ReconfPrepFDD,~~
~~id-DCH-AddList-RL-ReconfPrepTDD,~~
~~id-DCH-AddList-RL-ReconfRqsteqFDD,~~
~~id-DCH-AddList-RL-ReconfRqsteqTDD,~~
~~id-DCH-DeleteItem-RL-ReconfPrepFDDItem,~~
~~id-DCH-DeleteItem-RL-ReconfPrepTDDItem,~~
~~id-DCH-DeleteItem-RL-ReconfRqsteqFDDItem,~~
~~id-DCH-DeleteItem-RL-ReconfRqsteqTDDItem,~~
~~id-DCH-DeleteList-RL-ReconfPrepFDD,~~
~~id-DCH-DeleteList-RL-ReconfPrepTDD,~~
~~id-DCH-DeleteList-RL-ReconfRqsteqFDD,~~
~~id-DCH-DeleteList-RL-ReconfRqsteqTDD,~~
~~id-DCH-InformationItem-RL-SetupRqsteqFDDItem,~~
~~id-DCH-InformationList-RL-SetupRqstFDD,~~
~~id-DCH-InformationItem-RL-SetupRqsteqTDDItem,~~
~~id-DCH-InformationList-RL-SetupRqsteqFDD,~~
~~id-DCH-InformationList-RL-SetupRqsteqTDD,~~
~~id-DCH-InformationResponseItem-RL-SetupRspFailTFDDItem,~~
~~id-DCH-InformationResponseList-RL-SsetupRespTDDItem,~~
~~id-DCH-InformationResponseItem,~~
~~id-DCH-ModifyItem-RL-ReconfPrepFDDItem,~~
~~id-DCH-ModifyItem-RL-ReconfPrepTDDItem,~~

~~id-DCH-Modify-RL-ReconfReadyItem,~~
~~id-DCH-ModifyItem-RL-ReconfRgsteqFDDItem,~~
~~id-DCH-ModifyItem-RL-ReconfRgsteqTDDItem,~~
~~id-DCH-ModifyItem-RL-ReconfResp,~~
~~id-DCH-ModifyList-RL-ReconfPrepFDD,~~
~~id-DCH-ModifyList-RL-ReconfPrepTDD,~~
~~id-DCH-ModifyList-RL-ReconfRgsteqFDD,~~
~~id-DCH-ModifyList-RL-ReconfRgsteqTDD,~~
~~id-DedicatedMeasurementObjectType,~~
~~id-DedicatedMeasurementObjectType-DM-Rprrt,~~
~~id-DedicatedMeasurementObjectType-DM-Rqst,~~
~~id-DedicatedMeasurementObjectType-DM-Rsp,~~
~~id-DedicatedMeasurementType,~~
~~id-DL-CCTrCH-InformationItem-RL-AdditionRqstTDD,~~
~~id-DL-CCTrCH-InformationItem-RL-ReconfPrepTDDItem,~~
~~id-DL-CCTrCH-InformationItem-RL-ReconfRgsteqTDDItem,~~
~~id-DL-CCTrCH-InformationItem-RL-SetupRgsteqTDDItem,~~
~~id-DL-CCTrCH-InformationItem,~~
~~id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,~~
~~id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,~~
~~id-DL-CCTrCH-InformationList-RL-ReconfRgsteqTDD,~~
~~id-DL-CCTrCH-InformationList-RL-SetupRgsteqTDD,~~
~~id-DL-CCTrCHInformationItem,~~
~~id-DL-CCTrCHInformationList,~~
~~id-DL-CodeInformation,~~
~~id-DL-CodeInformation-RL-ReconfPrepFDDItem,~~
~~id-DL-CodeInformation-RL-SetupReqFDDItem,~~
~~id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,~~
~~id-DL-DPCH-Information-RL-ReconfPrepFDD,~~
~~id-DL-DPCH-Information-RL-ReconfPrepTDDItem,~~
~~id-DL-DPCH-InformationItem-RL-SetupRgsteqTDDItem,~~
~~id-DL-DPCH-InformationItem,~~
~~id-DL-DPCH-InformationItem-RL-ReconfReqFDD,~~
~~id-DL-DPCH-InformationItem-RL-SetupReqFDD,~~
~~id-DL-DPCH-InformationList-RL-AdditionRqstTDD,~~
~~id-DL-DPCH-InformationList-RL-SetupRqstTDD,~~
~~id-DL-DPCH-Information-RL-ReconfPrepFDD,~~
~~id-DL-DPCH-Information-RL-ReconfRqstFDD,~~
~~id-DL-DPCH-Information-RL-SetupRqstFDD,~~
~~id-DL-FrameType,~~
~~id-DL-ReferencePowerInformationItem,~~
~~id-DSCH-AddItem-RL-ReconfPrepFDD,~~
~~id-DSCH-AddItem-RL-ReconfRgsteqFDD,~~
~~id-DSCH-DeleteItem-RL-ReconfPrepFDD,~~
~~id-DSCH-DeleteItem-RL-ReconfRgsteqFDD,~~
~~id-DSCH-ID,~~
~~id-DSCH-Information-AddItem-RL-ReconfPrepTDD,~~
~~id-DSCH-Information-AddItem-RL-ReconfRqstTDD,~~
~~id-DSCH-information-AddList-RL-ReconfPrepTDD,~~
~~id-DSCH-Information-AddList-RL-ReconfRqstTDD,~~
~~id-DSCH-Information-DeleteItem-RL-ReconfPrepTDD,~~
~~id-DSCH-Information-DeleteItem-RL-ReconfRqstTDD,~~
~~id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,~~
~~id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,~~
~~id-DSCH-Information-ModifyItem-RL-ReconfPrepTDD,~~
~~id-DSCH-Information-ModifyItem-RL-ReconfRqstTDD,~~
~~id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,~~
~~id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,~~
~~id-DSCH-InformationItem-RL-SetupRgsteqFDDItem,~~
~~id-DSCH-InformationList-RL-SetupRqstFDD,~~
~~id-DSCH-InformationItem-RL-SetupRqstTDD,~~
~~id-DSCH-InformationList-RL-SetupRgsteqFDD,~~
~~id-DSCH-InformationList-RL-SetupRqstTDD,~~
~~id-DSCH-InformationResponse-RL-SetupFailFDDItem,~~
~~id-DSCH-InformationResponseItem-RL-SetupRespFDDItem,~~
~~id-DSCH-InformationResponseList-RL-SetupRspTDD,~~
~~id-DSCH-ModifyItem-RL-ReconfPrepFDD,~~
~~id-DSCH-ModifyItem-RL-ReconfRgsteqFDD,~~
~~id-DSCH-TFCS,~~
~~id-DedicatedMeasurementObjectType,~~
~~id-DedicatedMeasurementType,~~
~~id-FACH-Information-ResourceStatIndItem,~~
~~id-FACH-InformationItem,~~
~~id-FACH-ListItem,~~
~~id-FACH-ParametersList-CTCHreconf-Req-FDD,~~
~~id-FACH-ParametersList-CTCHreconf-Req-TTD,~~
~~id-FACH-ParametersListItem-CTCH-Reconf-Rgsteq-FDD,~~
~~id-FACH-ParametersListItem-CTCH-Reconf-RqstFDDeq-TTD,~~

~~id-FACH-ParametersListItem-CTCHsetup-Req-FDD,~~
~~id-FACH-ParametersListItem-CTCHsetup-Response,~~
~~id-GapPositionMode,~~
~~id-GapStartingSlotNumber,~~
~~id-IndicationType-ResourceStatusInd,~~
~~id-Local-Cell-ID,~~
~~id-Local-Cell-Information-ResourceStatIndItem,~~
~~id-Local-Cell-Information-ResourceStatIndItem,~~
~~id-LocalCell-ID,~~
~~id-Local-Cell-InformationItem-AuditRsp,~~
~~id-Local-Cell-InformationList-AuditRsp,~~
~~id-MIB-SegmentInformationItem,~~
~~id-MIB-SegmentInformationList,~~
~~id-MaximumTransmissionPower,~~
~~id-MeasuredCellInfo,~~
~~id-MeasurementCharacteristics,~~
~~id-MeasurementID,~~
~~id-MeasurementType,~~
~~id-MIB-SIB-InformationItem-SystemInfoUpdateRqst,~~
~~id-MIB-SIB-InformationList-SystemInfoUpdateRqst,~~
~~id-NeighbouringFDD-Cell-InformationItem,~~
~~id-NeighbouringTDD-Cell-InformationItem,~~
~~id-NodeB-CommunicationContextID,~~
~~id-PCCPCH-Information-Cell-ReconfRqstTDD,~~
~~id-PCCPCH-Information-Cell-SetupRqstTDD,~~
~~id-PCH-Information-ResourceStatIndItem,~~
~~id-PCH-InformationItem,~~
~~id-PCH-ListItem,~~
~~id-PCH-Parameters-CTCH-Reconf-Rqsteq-FDD,~~
~~id-PCH-ParametersList,~~
~~id-PCH-ParametersListItem,~~
~~id-PD,~~
~~id-PICH-Parameters-CTCH-Reconf-Rqsteq-FDD,~~
~~id-PowerControlMode,~~
~~id-PowerResumeMode,~~
~~id-PRACH-ParametersItem-CTCH-ReconfRqstFDD,~~
~~id-PRACH-ParametersList-CTCH-ReconfRqstFDD,~~
~~id-PSCH-Information,~~
~~id-PSCHandPCCPCH-Information,~~
~~id-PUSCH-ListItem,~~
~~id-PatternDuration,~~
~~id-PowerControlMode,~~
~~id-PowerResumeMode,~~
~~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-PSCH-Information-Cell-ReconfRqstTDD,~~
~~id-PSCH-Information-Cell-SetupRqstTDD,~~
~~id-ReportCharacteristics,~~
~~id-RACH-Information-ResourceStatIndItem,~~
~~id-RACH-InformationItem,~~
~~id-RL-ID,~~
~~id-RL-Information,~~
~~id-RL-InformationItem-RL-AdditionRqstFDD,~~
~~id-RL-InformationItem-RL-DeletionRqst,~~
~~id-RL-InformationItem-RL-FailureInd,~~
~~id-RL-Information-DMeasureReportItem,~~
~~id-RL-Information-DMeasureRequestItem,~~
~~id-RL-Information-DMeasureResponseItem,~~
~~id-RL-InformationItem-RL-ReconfPrepFDDItem,~~
~~id-RL-InformationItem-RL-ReconfSetupRqsteqFDDItem,~~
~~id-RL-InformationItem-RL-ReconfRqstTDD,~~
~~id-RL-InformationItem-RL-RestoreInd,~~
~~id-RL-InformationItem-RL-SetupRqsteqFDD,~~
~~id-RL-InformationList-RL-AdditionRqstFDD,~~
~~id-RL-InformationList-RL-DeletionRqst,~~
~~id-RL-InformationList-RL-FailureInd,~~
~~id-RL-InformationList-RL-ReconfPrepFDD,~~
~~id-RL-InformationList-RL-ReconfRqsteqFDD,~~
~~id-RL-InformationList-RL-ReconfRqstTDD,~~
~~id-RL-InformationList-RL-RestoreInd,~~
~~id-RL-InformationList-RL-SetupRqsteqFDD,~~
~~id-RL-InformationResponseItem-RL-AdditionRspFDD,~~

id-RL-InformationResponseItem-RL-ReconfReady,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SsetupRspFDDItem,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReady,
id-RL-InformationResponseList-RL-ReconfReadyItem,
id-RL-InformationResponseList-RL-ReconfRsp,
id-RL-InformationResponseList-RL-SsetupRspFDD,
id-RL-InformationResponseList-RL-setupResTDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-SetupRspTDD,
id-RL-Information-RL-AdditionRqstTDD,
id-RL-Information-RL-ReconfPrepTDD,
id-RL-Information-RL-SetupRqstTDD,
id-RL-ReconfigurationFailureItem-RL-ReconfFailureItem,
id-RL-ReconfigurationFailureList-RL-ReconfFailure,
id-RL-ResponseInformation,
id-RL-ResponseInformationItem,
id-RL-ResponseInformationList,
id-RL-informationItem,
id-RL-informationList,
id-RadioLinkInformation-RL-ReconfPrepFDDItem,
id-RadioLinkInformation-RL-ReconfPrepTDD,
id-RadioLinkInformation-RL-ReconfReqTDD,
id-RadioLinkInformationList-RL-ReconfPrepFDD,
id-ReportCharacteristics,
id-SFN,
id-SIB-SegmentInformationItem,
id-SIB-SegmentInformationList,
id-ScramblingCodeChange,
id-Secondary-CCPCHListItem,
id-SecondaryCPICH-Information-Cell-ReconfRqstFDD,
id-SecondaryCPICH-Information-Cell-SetupRqstFDD,
id-SecondarySCH-Information-Cell-ReconfRqstFDD,
id-SecondarySCH-Information-Cell-SetupRqstFDD,
id-SFN,
id-ShutdownTimer,
id-SN,
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,-
id-Successful-RL-InformationResponseItem-RL-SetupFailureFDDItem,
id-Successful-RL-InformationResponseItem,
id-Successful-RL-InformationResponseList-RL-AdditionFailureFDD,
id-Successful-RL-InformationResponseList-RL-SetupFailureFDD,
id-SyncCase,
id-SynchronisationMethod,
id-T-Cell,
id-TGD,
id-TGL,
id-TGP1,
id-TGP2,
id-TDDChipOffset,
id-TimeSlotConfigurationItem-Cell-ReconfRqstTDD,

id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationItem-Cell-SetupRqstTDD,
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,
id-TransmissionDiversityApplied,
id-TransmissionGapDistance,
id-TransmissionGapPeriod,
id-TransmitGapLength,
id-TransmitGapPositionMode,
id-UARFCN,
id-C-ID,
id-UL-CCTrCH-InformationItem-RL-AdditionRqstReconfPrepTDDItem,
id-UL-CCTrCH-InformationItem-RL-ReconfPrepReqTDDItem,
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqsteqTDDItem,
id-UL-CCTrCH-InformationItemIE,
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationList-RL-ReconfRqsteqTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqsteqTDD,
id-UL-CCTrCHInformation,
id-UL-CCTrCHInformationList,
id-UL-DeltaEbNo,
id-UL-DeltaEbNo-after,
id-UL-DL-CompressedModeSelection,

~~id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,~~
~~id-UL-DPCH-InformationItem-RL-SetupRqstTDD,~~
~~id-UL-DPCH-InformationList-RL-AdditionRqstTDD,~~
~~id-UL-DPCH-InformationList-RL-SetupRqstTDD,~~
~~id-UL-DPCH-Information-RL-ReconfPrepFDD,~~
~~id-UL-DPCH-Information-RL-ReconfPrepTDDItem,~~
~~id-UL-DPCH-Information-RL-SetupReqTDDItem,~~
~~id-UL-DPCH-InformationItem-RL-ReconfRqsteqFDD,~~
~~id-UL-DPCH-InformationItem-RL-SetupRqsteqFDD,~~
~~id-UL-DPCH-InformationItemIE,~~
~~id-USCH-Information-ResourceStatIndItem,~~
~~id-USCH-InformationItem,~~
~~id-USCH-ListItem-CTCHSetup-Req-TDD,~~
~~id-Unsuccessful-RL-InformationResponseItem-RL-AdditionFailureFDD,~~
~~id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailureFDDItem,~~
~~id-Unsuccessful-RL-InformationResponseItem,~~
~~id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD,~~
~~id-Unsuccessful-RL-InformationResponseList-RL-AdditionFailureFDD,~~
~~id-Unsuccessful-RL-InformationResponseList-RL-SetupFailureFDD,~~
~~id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,~~
~~id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,~~
~~id-USCH-Information-AddItem-RL-ReconfPrepTDD,~~
~~id-USCH-Information-AddItem-RL-ReconfRqstTDD,~~
~~id-USCH-Information-AddList-RL-ReconfPrepTDD,~~
~~id-USCH-Information-AddList-RL-ReconfRqstTDD,~~
~~id-USCH-Information-DeleteItem-RL-ReconfPrepTDD,~~
~~id-USCH-Information-DeleteItem-RL-ReconfRqstTDD,~~
~~id-USCH-Information-DeleteList-RL-ReconfPrepTDD,~~
~~id-USCH-Information-DeleteList-RL-ReconfRqstTDD,~~
~~id-USCH-Information-ModifyItem-RL-ReconfPrepTDD,~~
~~id-USCH-Information-ModifyItem-RL-ReconfRqstTDD,~~
~~id-USCH-Information-ModifyList-RL-ReconfPrepTDD,~~
~~id-USCH-Information-ModifyList-RL-ReconfRqstTDD,~~
~~id-USCH-InformationItem-RL-SetupRqstTDD,~~
~~id-USCH-InformationList-RL-SetupRqstTDD,~~
~~id-USCH-InformationResponseItem-RL-SetupRspTDD,~~
~~id-USCH-InformationResponseList-RL-SetupRspTDD,~~

~~maxAICHCell,~~
~~maxCCPinNodeB,~~
~~maxCellinNodeB,~~
~~maxFACHCell,~~
~~maxLocalCellinNodeB,~~
~~maxMIBSEC,~~
~~maxFACHCell,~~
~~maxPCHCell,~~
~~maxPCHinNodeB,~~
~~maxRACHCell,~~
~~maxSCCPCHCell,~~
~~maxSCPICHCell,~~
~~maxSF,~~
~~maxIB,~~
~~maxSIBSEC,~~
~~maxUCIDinNodeB,~~
~~maxUSCHCell,~~
~~maxNrOfneofCCTrCHs,~~
~~maxnrOfCCTrCHs,~~
~~maxNrOfneofDCHs,~~
~~maxNrOfneofDLCodes,~~
~~maxNrOfneofDPCHs,~~
~~maxNrOfneofDSCHs,~~
~~maxnrOfFACHCell,~~
~~maxNrOfneofFACHs,~~
~~maxnrOfFDDNeighbours,~~
~~maxNrOfneofPCHs,~~
~~maxNrOfRLs,~~
~~maxNrOfneofPRACHs,~~
~~maxnrOfPUSHs,~~
~~maxnrOfRL-1,~~
~~maxnrOfRL-2,~~
~~maxnrOfRLs,~~
~~maxNrOfneofSCCPCHs,~~
~~maxnrOfTDDNeighbours,~~
~~maxNrOfneofUSCHs,~~
~~maxFACHCell,~~
~~maxPCHCell,~~

```
maxRACHCell,  
maxPRACHCell,  
maxSCCPCHCell,  
maxSCPICHCell,  
maxCellinNodeB,  
maxCCPinNodeB,  
maxLocalCellinNodeB,  
maxSF,  
maxIB,  
maxIBSEG
```

```
FROM NBAP-Constants;
```

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

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

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

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

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

```
CommonPhysicalChannelType-CTCH-Ssetup-RqstFDD ::= CHOICEENUMERATED {  
    secondary-CCPCH-parameters-CTCHsetup-Req-FDD _____ Secondary-  
    CCPCH-parameters-CTCH-Ssetup-RqstFDD,  
    pRACH-parameters-CTCHsetup-Req-FDD _____ PRACH-  
    parameters-CTCH-Ssetup-RqstFDD  
}
```

```
Secondary-CCPCH-parameters-CTCH-Ssetup-RqstFDD ::= SEQUENCE {  
    cCommonPhysicalChannelID _____ CommonPhysicalChannelID,  
    fdd-S-CCPCH-Offset _____ FDD-S-CCPCH-Offset,  
    dl-ScramblingCode _____ DL-ScramblingCode,  
    fdd-DL-ChannelisationCodeNumber _____ FDD-DL-ChannelisationCodeNumber,  
    transportFormatCombinationSet _____ TransportFormatCombinationSet,  
    tFCS _____ TFCS,  
    secondary-CCPCH-SlotFormat _____ SecondaryCCPCH-SlotFormat,  
    pilotBitsUsedIndicator _____ PilotBitsUsedIndicator,  
    multiplexingPosition _____ MultiplexingPosition,  
    sTTD-Indicator _____ STTD-Indicator,  
    commonTransportChannelType _____ CommonTransportChannelType-CTCHsetup-  
    Req-FDD  
    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  
    pICH-Parameters _____ PICH-Parameters-CTCH-SetupRqstFDD,  
    iE-Extensions _____ ProtocolExtensionContainer -- { { Secondary-CCPCH-CTCH-  
    SetupRqstFDD-ExtIEs} } _____ OPTIONAL,  
    ...  
}
```

~~Secondary-CCPCH-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {~~

~~...
}~~

~~CommonTransportChannelType-CTCHsetup-Req-FDD ::= ENUMERATED {
FACH-ParametersList FACH-ParametersList-CTCHsetup-Req-FDD,
pCH-Parameters PCH-Parameters-CTCHsetup-Req-FDD,
bothCH-Parameters BothCH-Parameters-CTCHsetup-Req-FDD
}~~

~~BothCH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
FACH-ParametersList FACH-ParametersList-CTCHsetup-Req-FDD,
pCH-Parameters PCH-Parameters-CTCHsetup-Req-FDD
}~~

~~FACH-ParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfneofFACHs)) OF
ProtocolIE-Container {{ FACH-ParametersListItemIE-CTCHsetup-Req-FDD }}~~

~~FACH-ParametersListItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
{ ID id FACH-ParametersListItem-CTCHsetup-Req-FDD CRITICALITY ignore TYPE FACH-
ParametersListItem-CTCHsetup-Req-FDD PRESENCE mandatory },
...
}~~

~~FACH-ParametersListItem-CTCHsetup-Req-FDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
transportFormatSet TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE,
maxFACH-Power DL-Power,
iE-Extensions ProtocolExtensionContainer -{ { FACH-
ParametersList-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}~~

~~FACH-ParametersList-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {~~

~~...
}~~

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

~~PCH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {~~

~~...
}~~

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

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

~~...
}~~

~~PRACH-parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
scramblingCodeWordNumber ScramblingCodeWordNumber,
transportFormatCombinationSet TransportFormatCombinationSet,
tFCS TFCS,
preambleSignatures PreambleSignatures,
...
}~~

```

scramblingCodeWord ScramblingCodeWord,
allowedSlotFormatInformationList
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
rACH-SlotFormat RACH-SlotFormat,
rACH-SubChannelNumbers RACH-SubChannelNumbers,
ul-punctureLimit PunctureLimit,
rACH-Parameters RACH-Parameters-CTCH-Setup-
RqstFDD,
aICH-Parameters AICH-Parameters-CTCH-Setup-
RqstFDD,
iE-Extensions ProtocolExtensionContainer { { PRACH-parameters-
CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSF)) OF
ProtocolIE-Container {{AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD}}

```

```

AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
{ ID id-AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD
CRITICALITY ignore TYPE AllowedSlotFormatInformationItem-CTCHsetup-
Req-FDD PRESENCE mandatory },
...
}

```

```

AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD ::= SEQUENCE {
rACHSlotFormat RACH-SlotFormat,
iE-Extensions ProtocolExtensionContainer { {
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

RACH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
transportFormatSet TransportFormatSet,
iE-Extensions ProtocolExtensionContainer { { RACH-Parameters-
CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
dl-ScramblingCode DL-ScramblingCode,
aICH-TransmissionTiming AICH-TransmissionTiming,
fddDL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
aICH-Power DL-Power,
sTTD-Indicator STTD-Indicator,
iE-Extensions ProtocolExtensionContainer --{ { AICH-Parameters-
CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
--
-- *****

```

```

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

```

```

protocolExtensions _____ ProtocolExtensionContainer-
_____{ {CommonTransportChannelSetupRequestTDD-Extensions} } _____ OPTIONAL,

...
}

CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID _____ -id-C-ID _____ CRITICALITY _____ ignore TYPE
  _____ -C-ID _____ PRESENCE _____ mandatory } |
  { ID _____ -id-ConfigurationGenerationID _____ CRITICALITY _____ ignore TYPE
  _____ ConfigurationGenerationID _____ PRESENCE _____ mandatory } |
  { ID _____ -id-CommonPhysicalChannelType-CTCH-SsetupRqstTDD _____ CRITICALITY _____ ignore
  TYPE _____ CommonPhysicalChannelType-CTCH-SsetupRqstTDD _____ PRESENCE _____ mandatory } |
  { ID _____ -id-CommonTransportChannelType-CTCH-SsetupRqstTDD _____ CRITICALITY _____
  ignore TYPE _____ CommonTransportChannelType-CTCH-SsetupRqstTDD _____ PRESENCE
  mandatory _____
  },
  ...
}

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

CommonPhysicalChannelType-CTCH-SsetupRqstTDD ::= CHOICEENUMERATED {
  secondary-CCPCH-parameters-CTCHsetupReqTDD _____ Secondary-CCPCH-
  parameters-CTCH-SsetupRqstTDD,
  pRACH-parameters-CTCHsetupReqTDD _____ PRACH-parameters-CTCH-
  SsetupRqstTDD
}

Secondary-CCPCH-parameters-CTCH-SsetupRqstTDD ::= SEQUENCE {
  cCTrCH-ID _____ CCTrCH-ID,
  transportFormatCombinationSet _____ TransportFormatCombinationSet,
  tFCS _____ TFCS,
  secondaryCCPCH _____ Secondary-CCPCHList-CTCH-SsetupRqstTDD,
  iE-Extensions _____ ProtocolExtensionContainer { {Secondary-CCPCH-CTCH-
  SetupRqstTDD-ExtIEs} } _____ OPTIONAL,
  ...
}

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

Secondary-CCPCHList-CTCH-SsetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfneofSCCPCHs)) OF
  _____ ProtocolIE-Container { { SecondaryCCPCHList-CTCHsetupReqTDDItemIE } }

SecondaryCCPCHList-CTCHsetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  _____ { ID _____ -id-SecondaryCCPCHList-CTCHsetupReqTDDItem _____ CRITICALITY ignore TYPE SecondaryCCPCHList-
  CTCHsetupReqTDDItem PRESENCE _____ mandatory
  },
  ...
}

SecondaryCCPCHList-CTCHsetupReqTDDItem ::=
  _____ SEQUENCE {
  _____ commonPhysicalChannelID _____ CommonPhysicalChannelID,
  _____ tdd-ChannelisationCode _____ TDD-ChannelisationCode,
  _____ timeslot _____ TimeSlot,
  _____ burstType _____ BurstType,
  _____ midambleShift _____ MidambleShift,
  _____ tdd-PhysicalChannelOffset _____ TDD-PhysicalChannelOffset,
  _____ repetitionPeriod _____ RepetitionPeriod,
  _____ repetitionLength _____ RepetitionLength,
  _____ s-CCPCH-Power _____ DL-Power,
  _____ sTTD-Indicator _____ STTD-Indicator,
  _____ tTTD-Indicator _____ TTTD-Indicator
  _____ iE-Extensions _____ ProtocolExtensionContainer -{ { Secondary-
  CCPCHList-CTCH-SetupRqstTDD-ExtIEs} } _____ OPTIONAL,
  ...
  _____ }

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

```

```

PRACH-parameters-CTCH-SsetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    timeslot                          TimeSlot,
    tdd-ChannelisationCode           TDD-ChannelisationCode,
    burstType BurstType,
    maxPRACH-MidambleShifts         MaxPRACH-MidambleShifts OPTIONAL,
    pRACH-Midamble                   PRACH-Midamble,
    commonTransportChannelType       CommonTransportChannelType-CTCH-
SsetupRqstTDD,
    rACH RACH-CTCHsetupReqTDD
    iE-Extensions                    ProtocolExtensionContainer { { PRACH-CTCH-
SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

CommonTransportChannelType-CTCH-SsetupRqstTDD ::= SEQUENCEENUMERATED {
    fACH-ParametersList             FACH-ParametersList-CTCH-SsetupRqstTDD
OPTIONAL,
    -- one of the channels FACH or PCH or both must be present
    pCH-ParametersList             PCH-ParametersList-CTCH-SsetupRqstTDD
OPTIONAL,
    -- one of the channels FACH or PCH or both must be present
    bothCH-Parameters              BothCH-Parameters-CTCHsetupReqTDD
    rACH-Parameter                  RACH-Parameter-CTCH-SetupRqstTDD,
    iE-Extensions                    ProtocolExtensionContainer { {
CommonTransportChannelType-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

BothCH-Parameters-CTCHsetupReqTDD ::= SEQUENCE {
    fACH-ParametersList FACH-ParametersList-CTCHsetupReqFDD,
    pCH-Parameters PCH-Parameters-CTCHsetupReqFDD
}

```

```

FACH-ParametersList-CTCH-SsetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF
    ProtocolIE-Container-{{FACH-ParametersList-CTCHsetupReqFDD-ItemIE}}

```

```

FACH-ParametersList-CTCHsetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersList-CTCHsetupReqFDDItem CRITICALITY ignore TYPE FACH-ParametersList-
CTCHsetupReqFDDItem PRESENCE mandatory },
    ...
}

```

```

FACH-ParametersList-CTCHsetupReqFDDItem ::= SEQUENCE {
    commonTransportChannelID        CommonTransportChannelID,
    dl-TransportFormatSet           DL-TransportFormatSet,
    toAWS                           ToAWS,
    toAWE                            ToAWE,
    iE-Extensions                    ProtocolExtensionContainer { { FACH-ParametersList-
CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

PCH-ParametersList-CTCH-SsetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfPCHs)) OF
    ProtocolIE-Container-{{PCH-ParametersList-CTCHsetupReqFDD-ItemIE}}

```

```

PCH-ParametersList-CTCHsetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersList-CTCHsetupReqFDDItem CRITICALITY ignore TYPE PCH-ParametersList-
CTCHsetupReqFDDItem PRESENCE mandatory },
    ...
}

```

```

PCH-ParametersList-CTCHsetupReqFDDItem ::= SEQUENCE {
    commonTransportChannelID        CommonTransportChannelID,
    dl-TransportFormatSet           DL-TransportFormatSet,
    toAWS                           ToAWS,
}

```

```

    toAWE ToAWE,
    pICH-Parameters PICH-Parameters-CTCH-SetupRqstTDD,
    iE-Extensions ProtocolExtensionContainer { { PCH-ParametersList-
CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

PCH-ParametersList-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PICH-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    timeSlot TimeSlot,
    pICH-Power PICH-Power,
    burstType BurstType OPTIONAL,
    midambleShift MidambleShift,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    pagingIndicatorLength PagingIndicatorLength,
    pICH-Power DL-Power,
    iE-Extensions ProtocolExtensionContainer { { PICH-Parameters-CTCH-
SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

RACH-Parameter-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    iE-Extensions ProtocolExtensionContainer { { RACH-Parameter-CTCH-
SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

RACH-Parameter-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-CommonTransportPhysicalChannelType-CTCH-Setup-Resp CRITICALITY ignore
    TYPE CommonTransportPhysicalChannelType-CTCH-Setup-Resp PRESENCE
    mandatory }
    { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE
    CriticalityDiagnostic PRESENCE optional },
    -- At least either or Cause IE or Criticality Diagnostic IE shall be present
    ...
}

```

```

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

```

```

CommonTransportChannelType-CTCH-Setup-Resp ::= SEQUENCEENUMERATED {
    fACH-ParametersList FACH-ParametersList-CTCH-Setup-Resp OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    pCH-Parameters PCH-Parameters-CTCH-Setup-Resp OPTIONAL,
}

```

```


-- One of the channels FACH or PCH or both must be present
BothCH-Parameters BothCH-Parameters-CTCHsetup-Resp
rACH-Parameters RACH-Parameters-CTCH-SetupRsp,
iE-Extensions ProtocolExtensionContainer { { CommonTransportChannelType-CTCH-
SetupRsp-ExtIEs} } OPTIONAL,
...
}


```

```

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

```

```

BothCH-Parameters-CTCHsetup-Resp ::= SEQUENCE {

fACH-ParametersList FACH-ParametersList-CTCHsetup-Resp,
pCH-Parameters PCH-Parameters-CTCHsetupResp
}


```

```

FACH-ParametersList-CTCH-Setup-Resp ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF
ProtocolIE-Container {{FACH-ParametersList-CTCHsetup-RespItemIE}}

```

```

FACH-ParametersList-CTCHsetup-RespItemIE NBAP-PROTOCOL-IES ::= {

{ ID id-FACH-ParametersList-CTCHsetup-RespItem CRITICALITY ignore TYPE FACH-ParametersList-
CTCHsetup-RespItem PRESENCE mandatory },
...
}


```

```

FACH-ParametersList-CTCHsetup-RespItem ::= SEQUENCE {

commonTransportChannelID CommonTransportChannelID,
bindingID BindingID,
transportLayerAddress TransportLayerAddress,
bindingID BindingID
iE-Extensions ProtocolExtensionContainer { { FACH-ParametersList-
CTCH-SetupRsp-ExtIEs} } OPTIONAL,
...
}


```

```

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

```

```

PCH-Parameters-CTCH-Setup-Resp ::= SEQUENCE {

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


```

```

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

```

```

RACH-Parameters-CTCH-Setup-Resp ::= SEQUENCE {

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


```

```

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

```

```

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

```

```

CommonTransportChannelSetupFailure ::= SEQUENCE {

protocolIEs ProtocolIE-Container
{{CommonTransportChannelSetupFailure-IEs}},


```



```

protocolExtensions _____ ProtocolExtensionContainer-ProtocolExtensionContainer
  {{{CommonTransportChannelSetupFailure-Extensions}}} _____ OPTIONAL,
  ...
}

CommonTransportChannelSetupFailure-IES NBAP-PROTOCOL-IES ::= {
  { ID _____ -id-Cause _____ CRITICALITY _____ ignore _____ TYPE _____ Cause
  PRESENCE _____ -mandatory }|
  { ID id-CriticalityDiagnostic _____ CRITICALITY ignore _____ TYPE CriticalityDiagnostic _____
  PRESENCE optional
  }|
  { ID _____ id-CriticalityDiagnostic _____ CRITICALITY _____ ignore _____ TYPE _____
  CriticalityDiagnostic _____ 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 ignore _____ TYPE _____ C-ID
  PRESENCE mandatory }|
  { ID _____ id-ConfigurationGenerationID _____ CRITICALITY ignore _____ TYPE _____
  ConfigurationGenerationID _____ PRESENCE mandatory }|
  { ID _____ id-FACH-ParametersList-CTCH-Rreconf-Rqsteq-FDD _____ CRITICALITY ignore _____ TYPE _____
  FACH-ParametersList-CTCH-Rreconf-Rqsteq-FDD _____ PRESENCE optional }|
  { ID _____ id-PCH-Parameters-CTCH-Rreconf-Rqsteq-FDD _____ CRITICALITY ignore _____ TYPE _____ PCH-
  Parameters-CTCH-Rreconf-Rqsteq-FDD _____ PRESENCE optional }|
  { ID _____ id-PICH-Parameters-CTCH-Rreconf-Rqsteq-FDD _____ CRITICALITY ignore _____ TYPE _____
  PICH-Parameters-CTCH-Rreconf-Rqsteq-FDD _____ PRESENCE optional }|
  { ID _____ id-PRACH-ParametersList-CTCH-Rreconf-Rqsteq-FDD _____ CRITICALITY ignore _____ TYPE _____
  PRACH-ParametersList-CTCH-Rreconf-Rqsteq-FDD _____ PRESENCE optional
  }|
  { ID id-AllowedSlotFormatInformationList-CTCHreconf-Req-FDD
  CRITICALITY ignor _____ TYPE AllowedSlotFormatInformationList-CTCHreconf-Req-
  FDD _____ PRESENCE optional
  }|
  { ID _____ id-AICH-ParametersList-CTCH-Rreconf-Rqsteq-FDD _____ CRITICALITY ignore _____ TYPE _____ AICH-
  ParametersList-CTCH-Rreconf-Reqsteq-FDD _____ PRESENCE optional
  },
  ...
}

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

FACH-ParametersList-CTCH-Rreconf-Rqsteq-FDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
  _____ ProtocolIE-Container {{{ FACH-ParametersListItemIE-CTCH-Rreconf-Rqsteq-FDD }}}

FACH-ParametersListItemIE-CTCH-Rreconf-Rqsteq-FDD NBAP-PROTOCOL-IES ::= {
  { ID _____ id-FACH-ParametersListItem-CTCH-Rreconf-Rqsteq-FDD _____ CRITICALITY ignore
  _____ TYPE _____ FACH-ParametersListItem-CTCH-Rreconf-Rqsteq-FDD _____ PRESENCE
  mandatory _____ },
  ...
}

FACH-ParametersListItem-CTCH-Rreconf-Rqsteq-FDD ::= 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-Reconf-RqstFDD ::= SEQUENCE {
commonTransportChannelID             CommonTransportChannelID,
pCH-Power                           DL-Power                       OPTIONAL,
toAWS                               ToAWS                       OPTIONAL,
toAWE                               ToAWE                       OPTIONAL,
iE-Extensions                       ProtocolExtensionContainer { { PCH-Parameters-CTCH-
ReconfRqstFDD-ExtIEs } }            OPTIONAL,
...
}

```

```

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

```

```

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

```

```

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

```

```

PRACH-ParametersList-CTCH-Reconf-RqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPrachs)) OF
ProtocolIE-Container { { PRACH-ParametersListItemIE-CTCH-Reconf-RqstFDD } }

```

```

PRACH-ParametersListItemIE-CTCH-Reconf-RqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-PRACH-ParametersListItem-CTCH-Reconf-RqstFDD CRITICALITY ignore
TYPE PRACH-ParametersListItem-CTCH-Reconf-RqstFDD
PRESENCE mandatoryoptional },
...
}

```

```

PRACH-ParametersListItem-CTCH-Reconf-RqstFDD ::= SEQUENCE {
commonTransportChannelID             CommonTransportChannelID,
preambleSignatures                  PreambleSignatures,
allowedSlotFormatInformation         AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD
OPTIONAL,
rACH-SubChannelNumbers              RACH-SubChannelNumbers        OPTIONAL,
iE-Extensions                       ProtocolExtensionContainer { { PRACH-ParametersItem-
CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
...
}

```

```

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

```

```

AllowedSlotFormatInformationList-CTCH-Reconf-RqstFDD ::= SEQUENCE (SIZE (1..maxSF)) OF
ProtocolIE-Container { { AllowedSlotFormatInformationListItemIE-CTCHreconf-Req-FDD } }

```

```

AllowedSlotFormatInformationListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
{ ID id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD
CRITICALITY ignore TYPE AllowedSlotFormatInformationListItem-
CTCHreconf-Req-FDD PRESENCE mandatory },
...
}

```

```

AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
slotFormat                          SlotFormat,
rACH-SubChannelNumbers              RACH-SubChannelNumbers        OPTIONAL,
iE-Extensions                       ProtocolExtensionContainer { {
AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
...
}

```

```
...
}
```

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

```
AICH-ParametersList-CTCH-Reconf-RqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHs)) OF
ProtocolIE-Container {{ AICH-ParametersList-ItemIE-CTCH-Reconf-RqstFDD }}
```

```
AICH-ParametersList-ItemIE-CTCH-Reconf-RqstFDD NBAP-PROTOCOL-IES ::= {
  { ID- id-AICH-ParametersList-Item-CTCH-Reconf-RqstFDD CRITICALITY ignore
    TYPE AICH-ParametersList-Item-CTCH-Reconf-RqstFDD PRESENCE
    mandatory-},
  ...
}
```

```
AICH-ParametersList-Item-CTCH-Reconf-RqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  aICH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { AICH-ParametersItemIE-
  CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}
```

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

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

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

```
CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID- id-C-ID CRITICALITY ignore TYPE
    C-ID PRESENCE mandatory }|
  { ID- id-ConfigurationGenerationID CRITICALITY ignore TYPE
    ConfigurationGenerationID PRESENCE mandatory }|
  { ID- id-CommonPhysicalChannelType-CTCH-ReconfRqstTDD CRITICALITY ignore TYPE
    CommonPhysicalChannelType-CTCH-ReconfRqstTDD PRESENCE mandatory }|
  { ID- id-FACH-ParametersList-CTCHreconfReqTDD CRITICALITY ignore TYPE FACH-ParametersList-
  CTCHreconfReqTDD PRESENCE optional }|
  { ID- id-PCH-ParametersList-CTCHreconfReqTDD CRITICALITY ignore TYPE PCH-ParametersList-
  CTCHreconfReqTDD PRESENCE optional },
  { ID- id-CommonTransportChannelType-CTCH-ReconfRqstTDD CRITICALITY ignore TYPE
    CommonTransportChannelType-CTCH-ReconfRqstTDD PRESENCE mandatory },
  ...
}
```

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

```
CommonPhysicalChannelType-CTCH-ReconfRqstTDD ::= CHOICEENUMERATED {
  secondaryCCPCH Secondary-CCPCH-CTCH-ReconfRqstTDD,
  pICH PICH-CTCH-ReconfRqstTDD
}
```

```
Secondary-CCPCH-CTCH-ReconfRqstTDD ::= SEQUENCE {
  cTrCH-ID CTrCH-ID,
  secondaryCCPCHList Secondary-CCPCHList-CTCH-ReconfRqstTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-
  ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}
```

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

~~...
}~~

~~Secondary-CCPCHList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfNoefSCCPCHs)) OF
ProtocolIE-Container {{ SecondaryCCPCHList-CTCHreconfReqTDDItemIE}}~~

~~SecondaryCCPCHList-CTCHreconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-SecondaryCCPCHList-CTCHreconfReqTDDItem CRITICALITY ignore TYPE SecondaryCCPCHList-
CTCHreconfReqTDDItem PRESENCE mandatory },
...
}~~

~~SecondaryCCPCHList-CTCHreconfReqTDDItem ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
pICH-Power PICH-Power
sCCPCH-Power DL-Power,
iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCHList-
CTCH-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}~~

~~Secondary-CCPCHList-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {~~

~~...
}~~

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

~~PICH-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {~~

~~...
}~~

~~CommonTransportChannelType-CTCH-ReconfRqstTDD ::= CHOICE {
FACH FACH-ParametersList-CTCH-ReconfRqstTDD,
pCH PCH-ParametersList-CTCH-ReconfRqstTDD
}~~

~~FACH-ParametersList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHsCell)) OF
ProtocolIE-Container {{ FACH-ParametersListItemIE-CTCHreconfReqTTD }}~~

~~FACH-ParametersListItemIE-CTCHreconfReqTTD NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-ParametersListItem-CTCHreconfReqTTD CRITICALITY ignore TYPE FACH-
ParametersListItem-CTCHreconfReqTTD PRESENCE mandatory },
...
}~~

~~FACH-ParametersListItem-CTCHreconf-Req-TTD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
toAWS ToAWS OPTIONAL,
toAWE ToAWE OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { FACH-ParametersList-CTCH-
ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}~~

~~FACH-ParametersList-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {~~

~~...
}~~

~~PCH-ParametersList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfNoefPCHs)) OF
ProtocolIE-Container {{ PCH-ParametersListItemIE-CTCHreconfReqTTD }}~~

~~PCH-ParametersListItemIE-CTCHreconfReqTTD NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersListItem-CTCHreconfReqTTD CRITICALITY ignore TYPE PCH-ParametersListItem-
CTCHreconfReqTTD PRESENCE optional },
...
}~~

~~PCH-ParametersListItem-CTCHreconfReqTTD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
toAWS ToAWS OPTIONAL,
...
}~~

```

toAWE ToAWE OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { PCH-ParametersList-CTCH-
ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

PCH-ParametersList-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-CriticalityDiagnostic CRITICALITY ignore TYPE-
  CriticalityDiagnostic PRESENCE optional
  },
  ...
}

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

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

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

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

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

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

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

```

```

...
}

CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID-__id-C-ID _____ CRITICALITY-__ignore ____ TYPE-__C-ID
    PRESENCE-__mandatory__ }|
  { ID-__id-CommonPhysicalChannelID _____ CRITICALITY-__ignore ____ TYPE-
    CommonPhysicalChannelID _____ PRESENCE-__mandatory__ }|
  { ID-__id-ConfigurationGenerationID _____ CRITICALITY-__ignore ____ TYPE-
    ConfigurationGenerationID _____ PRESENCE-__mandatory__ },
  ...
}

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

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

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

CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID-__id-CriticalityDiagnostic__s _____ CRITICALITY-__ignore ____ TYPE-
    CriticalityDiagnostic__s _____ 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-__ignore ____ TYPE-__C-ID _____
    PRESENCE-__mandatory__ }|
  { ID-__id-BlockingPriorityIndicator _____ CRITICALITY-__ignore ____ TYPE-
    BlockingPriorityIndicator _____ PRESENCE-__mandatory__ }|
  { ID-__id-ShutdownTimer _____ CRITICALITY-__ignore ____ TYPE-__ShutdownTimer
    PRESENCE-__conditional__
  },
  -- The IEinformation element is present when the Blocking Priority Indicator-IE indicates
  'Normal Priority'--
  ...
}

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

-- *****
--

```

```

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

BlockResourceResponse ::= SEQUENCE {
  protocolIEs_____ ProtocolIE-Container
  {{BlockResourceResponse-IEs}},
  protocolExtensions_____ ProtocolExtensionContainer_{{BlockResourceResponse-
Extensions}}_____ OPTIONAL,
  ...
}

BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID_ id-CriticalityDiagnostic_s _____ CRITICALITY_ _____ ignore _____ TYPE_ _____
CriticalityDiagnostic_s _____ 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-CriticalityDiagnostic_s _____ CRITICALITY_ _____ ignore _____ TYPE_ _____
CriticalityDiagnostic_s _____ PRESENCE_ _____ optional _____
_____ },
  ...
}

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

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

UnblockResourceIndication ::= SEQUENCE {
  protocolIEs_____ ProtocolIE-Container_____
  {{UnblockResourceIndication-IEs}},
  protocolExtensions_____ ProtocolExtensionContainer_{{UnblockResourceIndication-
Extensions}}_____ OPTIONAL,
  ...
}

UnblockResourceIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID_ id-C-ID _____ CRITICALITY_ _____ ignore _____ TYPE_ C-ID _____
_____ PRESENCE_ _____ mandatory _____ },
  ...
}

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

-- *****

```

```

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

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

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

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

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

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

AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID-__id-Cell-ParametersList-Audit-RqstReq _____ CRITICALITY ignore TYPE-__Cell-
ParametersList-Audit-RqstReq _____ PRESENCE optional _____},
    ...
}

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

Cell-ParametersList-Audit-RqstReq ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF
____ ProtocolIE-Container {{__Cell-ParametersItemIE-Audit-RqstReq_}}

Cell-ParametersItemIE-AuditRqst NBAP-PROTOCOL-IES ::= {
    { ID-__id-Cell-ParametersItem-Audit-RqstReq _____ CRITICALITY-_____ ignore _____ TYPE-
Cell-ParametersItem-Audit-RqstReq _____ PRESENCE mandatory _____},
    ...
}

Cell-ParametersItem-Audit-RqstReq ::= SEQUENCE {
    c-ID _____ C-ID,
    configurationGenerationID _____ ConfigurationGenerationID,
    iE-Extensions _____ ProtocolExtensionContainer_{{Cell-ParametersItem-
AuditRqst-ExtIEs}} _____ OPTIONAL,
    ...
}

Cell-ParametersItem-AuditRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

```


-- *****

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

```
AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID_ id-Cell-InformationList-Audit-Resp _____ CRITICALITY_ ignore _____ TYPE_
  Cell-InformationList-Audit-Resp _____ PRESENCE_ optional } |
  { ID_ id-CCPommunicationControlPort-InformationList-Audit-Resp _____ CRITICALITY
  ignore _____ TYPE_ CCPommunicationControlPort-InformationList-Audit-Resp
  _____ PRESENCE optional }
} |
-- CCP (Communication Control Port) --
{ ID_ id-Local-Cell-InformationList-Audit-Resp _____ CRITICALITY_ ignore _____ TYPE
  Local-Cell-InformationList-Audit-Resp _____ PRESENCE_ optional } |
{ ID_ id-CriticalityDiagnostic _____ CRITICALITY_ ignore _____ TYPE_
  CriticalityDiagnostic _____ PRESENCE_ optional }
},
...
}
```

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

```
Cell-InformationList-Audit-Resp ::= SEQUENCE (SIZE (1..maxUCIDCellinNodeB)) OF
  _____ ProtocolIE-Container {{Cell-InformationItemIE-Audit-Resp_____}}
```

```
Cell-InformationItemIE-Audit-Resp NBAP-PROTOCOL-IES ::= {
  { ID_ id-Cell-InformationItem-Audit-Resp _____ CRITICALITY_ ignore _____ TYPE_ Cell-
  InformationItem-Audit-Resp _____ PRESENCE optional _____},
  ...
}
```

```
Cell-InformationItem-Audit-Resp ::= SEQUENCE {
  c-ID _____ C-ID,
  resourceOperationalState _____ ResourceOperationalState,
  availabilityStatus _____ AvailabilityStatus,
  maximumDL-PowerCapability _____ MaximumDL-PowerCapability, -- to do: FFS
  -- to do
  minimumSpreadingFactor _____ MinimumSpreadingFactor, -- to do: FFS
  -- to do
  primary-SCH-Information _____ P-SCH-Information-Audit-Resp _____
  OPTIONAL,
  secondary-SCH-Information _____ S-SCH-Information-Audit-Resp _____
  OPTIONAL,
  primary-CPICH-Information _____ P-CPICH-Information-Audit-Resp _____ OPTIONAL,
  secondary-CPICH-InformationList _____ S-CPICH-InformationList-Audit-Resp _____ OPTIONAL,
  primary-CCPCH-Information _____ P-CCPCH-Information-Audit-Resp _____ OPTIONAL,
  bCH-Information _____ BCH-Information-Audit-Resp _____ OPTIONAL,
  secondary-CCPCH-InformationList _____ S-CCPCH-InformationList-Audit-Resp _____ OPTIONAL,
  pCH-InformationList _____ PCH-InformationList-Audit-Resp _____ OPTIONAL,
  pICH-Information _____ PICH-Information-Audit-Resp _____ OPTIONAL,
  fACH-InformationList _____ FACH-InformationList-Audit-Resp _____ OPTIONAL,
  pRACH-InformationList _____ PRACH-InformationList-Audit-Resp _____
  OPTIONAL,
  rACH-InformationList _____ RACH-InformationList-Audit-Resp _____ OPTIONAL,
  aICH-InformationList _____ AICH-InformationList-Audit-Resp _____ OPTIONAL,
  sCH-InformationList _____ SCH-InformationList-Audit-Resp _____
  OPTIONAL,
  pSCH-InformationList _____ PSCH-InformationList-Audit-Resp _____
  OPTIONAL,
  communicationControlPortInformation _____ CommunicationControlPortInformation-Audit-Res _____
  OPTIONAL,
  local-CellInformation _____ Local-CellInformation-Audit-Res _____ OPTIONAL,
  iE-Extensions _____ ProtocolExtensionContainer { { Cell-InformationItem-
  AuditRsp-ExtIEs} } _____ OPTIONAL,
  ...
}
```

```
Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
...  
}
```

```
P-SCH-Information-Audit-Resp ::= SEQUENCE {  
    commonTransportChannelID CommonTransportChannelID,  
    resourceOperationalState ResourceOperationalState,  
    availabilityStatus AvailabilityStatus,  
    iE-Extensions ProtocolExtensionContainer { { P-SCH-Information-AuditRsp-  
ExtIEs} } OPTIONAL,  
    ...  
}
```

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

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

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

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

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

```
S-CPICH-InformationList-Audit-Resp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF  
ProtocolIE-Container {{S-CPICH-InformationItemIE-Audit-Res}}
```

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

```
S-CPICH-InformationItem-Audit-Res ::= SEQUENCE {  
    commonPhysicalTransportChannelID CommonPhysicalTransportChannelID,  
    resourceOperationalState ResourceOperationalState,  
    availabilityStatus AvailabilityStatus,  
    iE-Extensions ProtocolExtensionContainer { { S-CPICH-Information-  
AuditRsp-ExtIEs} } OPTIONAL,  
    ...  
}
```

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

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

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

```

BCH-Information-Audit-Resp ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { BCH-Information-AuditResp-
ExtIEs} } OPTIONAL,
    ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

S-CCPCH-InformationList-AuditResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PCH-InformationList-Audit-Resp ::= SEQUENCE (SIZE (1..maxPCHCell)) OF
    ProtocolIE-Container {{PCH-InformationItemIE-Audit-Res}}

```

```

PCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-InformationItem-Audit-Res CRITICALITY ignore TYPE PCH-InformationItem-Audit-
Res PRESENCE mandatory
},
    ...
}

```

```

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

```

```

PCH-InformationList-AuditResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

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

```

```

PICH-Information-AuditResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

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

```

```

FACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {

```

```

{ ID id-FACH-InformationItem-Audit-Res CRITICALITY ignore TYPE FACH-InformationItem-Audit-
Res PRESENCE mandatory },
...
}

```

```
FACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportPhysicalChannelID CommonTransportPhysicalChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { FACH-InformationList-
AuditRsp-ExtIEs} } OPTIONAL,
    ...
}
```

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

```
PRACH-InformationList-Audit-Resp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF
    ProtocolIE-Container {{PRACH-InformationItemIE-Audit-Res}}
```

```

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

```

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

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

```
RACH-InformationList-Audit-Resp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-InformationItemIE-Audit-Res}}
```

```

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

```

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

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

```
AICH-InformationList-Audit-Resp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-InformationItemIE-Audit-Res}}
```

```

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

```

```
AICH-InformationItem-Audit-Res ::= SEQUENCE {
    cCommonPhysicalChannelID CommonPhysicalChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { AICH-InformationList-
AuditRsp-ExtIEs} } OPTIONAL,
    ...
}
```

```

}

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

SCH-InformationItem-Audit-Resp ::= SEQUENCE {
    commonTransportPhysicalChannelID CommonTransportPhysicalChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { SCH-Information-AuditRsp-
ExtIEs} } OPTIONAL,
    ...
}

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

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

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

RACH-InformationItem-Audit-Resp ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus
}

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

CCPcommunicationControlPort-InformationItemIE-Audit-Resp NBAP-PROTOCOL-IES ::= {
    { ID id-CCPcommunicationControlPort-InformationItem-Audit-Resp CRITICALITY
ignore TYPE CCPcommunicationControlPort-InformationItem-Audit-Resp
PRESENCE mandatory },
    ...
}

CCPcommunicationControlPort-InformationItem-Audit-Resp ::= 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-Audit-Resp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
ProtocolIE-Container { { Local-Cell-InformationItemIE-Audit-Resp } }

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

Local-Cell-InformationItem-Audit-Resp ::= SEQUENCE {
    local-Cell-ID Local-Cell-ID,
    numberOfChannelElements NumberOfChannelElements OPTIONAL,
    maximumDL-PowerCapability MaximumDL-PowerCapability OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { Local-Cell-InformationItem-
AuditRsp-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

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

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

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IEs ::= {
    { ID_ id-MeasurementID _____ CRITICALITY_ ignore _____ TYPE_
    MeasurementID _____ PRESENCE_ mandatory } |
    { ID_ id-CommonMeasurementObjectType-CM-easureInitRqsteq _____ CRITICALITY_ ignore
    TYPE_ CommonMeasurementObjectType-CM-easureInitRqsteq _____ PRESENCE_ mandatory } |
    { ID_ id-CommonMeasurementType _____ CRITICALITY_ ignore _____ TYPE_
    CommonMeasurementType _____ PRESENCE_ mandatory } |
    { ID_ id-MeasurementCharacteristics _____ CRITICALITY_ ignore _____ TYPE_
    MeasurementCharacteristics _____ PRESENCE_ mandatory } |
    { ID_ id-ReportCharacteristics _____ CRITICALITY_ ignore _____ TYPE_
    ReportCharacteristics _____ PRESENCE_ mandatory },
    ...
}

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

CommonMeasurementObjectType-CM-easureInitRqsteq ::= CHOICEENUMERATED {
    cell _____ Cell-CM-easureInitRqsteq,
    RACH _____ RACH-CM-easureInitRqsteq
}

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

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

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

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

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

CommonMeasurementInitiationResponse ::= SEQUENCE {
    protocolIEs _____ ProtocolIE-Container _____
    {{CommonMeasurementInitiationResponse-IEs}},
}

```

```

protocolExtensions _____ ProtocolExtensionContainer ProtocolExtensionContainer
____ {{CommonMeasurementInitiationResponse-Extensions}} _____ OPTIONAL,
}
...
}

CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID-__id-MeasurementID _____ CRITICALITY-__ignore _____ TYPE-
  MeasurementID _____ PRESENCE-__mandatory }|
  { ID-__id-CommonMeasurementObjectType-CM-Resp _____ CRITICALITY-__ignore _____ TYPE-
  CommonMeasurementObjectType-CM-Resp _____ PRESENCE-__mandatory }|
  { ID-__id-SFN _____ CRITICALITY-__ignore _____ TYPE-__SFN
  _____ PRESENCE-__optional }|
  { ID-__id-CriticalityDiagnostics _____ CRITICALITY-__ignore _____ TYPE-
  CriticalityDiagnostics _____ PRESENCE-__optional
  },
  ...
}

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

-CommonMeasurementObjectType-CM-Resp ::= CHOICE {
  cell _____ Cell-CommonMeasurement-Resp,
  rACH _____ RACH-CommonMeasurement-Resp
}

Cells-CommonMeasurement-Rspeq ::= SEQUENCE {
  commonMeasurementValue _____ CommonMeasurementValue,
  iE-Extensions _____ ProtocolExtensionContainer { { Cell-CM-Rsp-ExtIEs } }
  _____ OPTIONAL,
  ...
}

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

RACH-CommonMeasurement-Rspeq ::= SEQUENCE {
  commonMeasurementValue _____ CommonMeasurementValue,
  iE-Extensions _____ ProtocolExtensionContainer { { RACH-CM-Rsp-ExtIEs } }
  _____ OPTIONAL,
  ...
}

RACH-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-RprtEP _____ CRITICALITY_ ignore _____ TYPE_
CommonMeasurementObjectType-CM-RprtEP _____ PRESENCE_ mandatory } |
    { ID_ id-SFN _____ CRITICALITY_ ignore _____ TYPE_ SFN
_____ PRESENCE_ optional },
    ...
}

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

CommonMeasurementObjectType-CM-RprtEP ::= CHOICEENUMERATED {
    cell _____ Cell-CommonMeasurement-CM-RprtEP,
    rACH _____ RACH-CommonMeasurement-CM-RprtEP
}

Cell-CommonMeasurement-CM-RprtEP ::= SEQUENCE {
    commonMeasurementValue _____ CommonMeasurementValue,
    IE-Extensions _____ ProtocolExtensionContainer_ {{ Cell-CommonMeasurement-CM-Rprt-
ExtIEs }} _____ OPTIONAL,
    ...
}

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

RACH-CommonMeasurement-CM-RprtEP ::= SEQUENCE {
    commonMeasurementValue _____ CommonMeasurementValue,
    IE-Extensions _____ ProtocolExtensionContainer_ {{ RACH-CommonMeasurement-CM-Rprt-
ExtIEs }} _____ OPTIONAL,
    ...
}

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

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

CommonMeasurementTerminationRequest ::= SEQUENCE {
    protocolIEs _____ ProtocolIE-Container _____
    {{CommonMeasurementTerminationRequest-IEs}},
    protocolExtensions _____ ProtocolExtensionContainer_
    {{CommonMeasurementTerminationRequest-Extensions}} _____ OPTIONAL,
    ...
}

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

```



```

    { ID_ id-MeasurementID          CRITICALITY_ ignore          TYPE_
    MeasurementID          PRESENCE_ mandatory },
    ...
}

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

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

CommonMeasurementFailureIndication ::= SEQUENCE {
    protocolIEs_ ProtocolIE-Container_
    {{CommonMeasurementFailureIndication-IEs}},
    protocolExtensions_ ProtocolExtensionContainer_
    {{CommonMeasurementFailureIndication-Extensions}}_ OPTIONAL,
    ...
}

CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID_ id-MeasurementID          CRITICALITY_ ignore          TYPE_ MeasurementID
      PRESENCE_ mandatory } |
    { ID_ id-Cause                  CRITICALITY_ ignore          TYPE_ Cause
      PRESENCE_ mandatory } |
    { ID_ id-CriticalityDiagnostic_ CRITICALITY_ ignore          TYPE_ CriticalityDiagnostic
      PRESENCE_ optional } |
    ...
}

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_ ignore
      TYPE_ Local-Cell-ID          PRESENCE_ mandatory } |
    { ID_ id-C-ID                  CRITICALITY_ ignore
      TYPE_ C-ID                  PRESENCE_ mandatory } |
    { ID_ id-ConfigurationGenerationID_ CRITICALITY_ ignore
      TYPE_ ConfigurationGenerationID_ PRESENCE_ mandatory } |
    { ID_ id-T-Cell                CRITICALITY_ ignore
      TYPE_ T-Cell                PRESENCE_ mandatory } |
    { ID_ id-UARFCN                CRITICALITY_ ignore
      TYPE_ UARFCN                PRESENCE_ mandatory } |
    { ID_ id-MaximumTransmissionPower_ CRITICALITY_ ignore
      TYPE_ MaximumTransmissionPower_ PRESENCE_ mandatory } |
    { ID_ id-PrimaryScramblingCode_ CRITICALITY_ ignore
      TYPE_ PrimaryScramblingCode_ PRESENCE_ mandatory } |
    { ID_ id-PrimarySCH-Information-Cell-Ssetup-RqsteqFDD_ CRITICALITY_ ignore
      TYPE_ PrimarySCH-Information-Cell-Ssetup-RqsteqFDD_ PRESENCE_ mandatory } |
    { ID_ id-SecondarySCH-Information-Cell-Ssetup-RqsteqFDD_ CRITICALITY_ ignore
      TYPE_ SecondarySCH-Information-Cell-Ssetup-RqsteqFDD_ PRESENCE_ mandatory } |
    { ID_ id-PrimaryCPICH-Information-Cell-Ssetup-RqsteqFDD_ CRITICALITY_ ignore
      TYPE_ PrimaryCPICH-Information-Cell-Ssetup-RqsteqFDD_ PRESENCE_ mandatory } |
    { ID_ id-SecondaryCPICH-Information-Cell-Ssetup-RqsteqFDD_ CRITICALITY_ ignore
      TYPE_ SecondaryCPICH-Information-Cell-Ssetup-RqsteqFDD_
    PRESENCE_ optional }
}

```

```

}|
{ ID-id-PrimaryCCPCH-Information-Cell-Ssetup-RqsteqFDD CRITICALITY- ignore
TYPE-TYPE PrimaryCCPCH-Information-Cell-Ssetup-RqsteqFDD PRESENCE-PRESENCE
mandatory },
...
}

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

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

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

PrimaryCPICH-Information-Cell-Ssetup-RqsteqFDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
primaryCPICH-Power DL-Power,
sTTD-Indicator STTD-Indicator
transmitDiversityIndicator TransmitDiversityIndicator,
iE-Extensions ProtocolExtensionContainer { { PrimaryCPICH-Information-
Cell-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}

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

SecondaryCPICH-Information-Cell-Ssetup-RqsteqFDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
dl-ScramblingCode DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
secondaryCPICH-Power DL-Power,
transmitDiversityIndicator TransmitDiversityIndicator,
iE-Extensions ProtocolExtensionContainer { { SecondaryCPICH-
Information-Cell-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}

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

PrimaryCCPCH-Information-Cell-Ssetup-RqsteqFDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
bCH-information-Cellsetup-Req BCH-Information-PrimCCPCH-Cell-Ssetup-
RqsteqFDD,
sTTD-Indicator STTD-Indicator,
iE-Extensions ProtocolExtensionContainer { { PrimaryCCPCH-Information-
Cell-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}

```

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

...
}

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

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

...
}

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

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

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

{ ID-id-Local-Cell-ID CRITICALITY- ignore TYPE
 Local-Cell-ID PRESENCE- mandatory } |
{ ID-id-C-ID CRITICALITY- ignore TYPE_C-
 ID PRESENCE E-mandatory y } |
{ ID-id-ConfigurationGenerationID CRITICALITY- ignore TYPE
 ConfigurationGenerationID PRESENCE- mandatory } |
{ ID-id-UARFCN CRITICALITY- ignore TYPE
 UARFCN PRESENCE- mandatory } |
{ ID-id-Cell-Parameter-ID CRITICALITY- ignore
 TYPE- Cell-Parameter-ID PRESENCE- mandatory } |
{ ID-id-MaximumTransmissionPower CRITICALITY- ignore TYPE
 MaximumTransmissionPower PRESENCE- optional } |
{ ID-id-TransmissionDiversityApplied CRITICALITY- ignore TYPE
 TransmissionDiversityApplied PRESENCE- mandatory } |
{ ID-id-SyncCase CRITICALITY- ignore TYPE
 TransmissionDiversityAppliedSyncCase PRESENCE
 mandatory } |
{ ID-id-PSCH-Information-Cell-SsetupRqstFDD CRITICALITY- ignore
 TYPE- PSCH-Information-Cell-SsetupRqstFDD PRESENCE- mandatory } |
{ ID-id-PCCPCH-Information-Cell-SsetupRqstFDD CRITICALITY- ignore
 TYPE- PCCPCH-Information-Cell-SsetupRqstFDD PRESENCE- mandatory } |
{ ID-id-TimeSlotConfigurationList-Cell-SsetupRqstFDD CRITICALITY- ignore TYPE
 TimeSlotConfigurationList-Cell-SsetupRqstFDD
 PRESENCE mandatory }
},
 ...
}

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

...
}

PSCH-Information-Cell-SsetupRqstFDD ::= SEQUENCE {

 commonPhysicalChannelID CommonPhysicalChannelID,
 syncCaseIndicator SyncCaseIndicator-Cell-SsetupRqstFDD-PSCH,
 pSCH-Power DL-Power,
 tSTD-Indicator TSTD-Indicator
 iE-Extensions ProtocolExtensionContainer { { PSCH-Information-Cell-
 SetupRqstTDD-ExtIEs } } OPTIONAL,
 ...
}

PSCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...
}

```

SyncCaseIndicator-Cell-SsetupRqstTDD-PSCH ::= CHOICEENUMERATED {
  case1          Case1-Cell-SsetupRqstTDD,
  case2andCase3 Case2andCase3-Cell-SsetupRqstTDD
}

```

```

Case1-Cell-SsetupRqstTDD ::= SEQUENCE {
  timeSlot          TimeSlot,
  iE-Extensions    ProtocolExtensionContainer { { Case1-Cell-SetupRqstTDD-
  ExtIEs} } OPTIONAL,
  ...
}

```

```

Case1-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

Case2andCase3-Cell-SsetupRqstTDD ::= SEQUENCE {
  pSCH-TimeSlot    PSCH-TimeSlot,
  pSCH-Power       DL-Power,
  tSTD-Indicator   TSTD-Indicator,
  iE-Extensions    ProtocolExtensionContainer { { Case2andCase3-Cell-
  SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

Case2andCase3-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

PCCPCH-Information-Cell-SsetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  syncCaseIndicator        SyncCaseIndicator-Cell-SsetupRqstTDD2-PCCPCH,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod         RepetitionPeriod,
  repetitionLength         RepetitionLength,
  pCCPCH-Power             PCCPCH-Power-DL-Power,
  tSTD-Indicator           TSTD-Indicator
  sTTD-Indicator           STTD-Indicator,
  iE-Extensions            ProtocolExtensionContainer { { PCCPCH-Information-Cell-
  SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

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

```

```

SyncCaseIndicator-Cell-SsetupRqstTDD2-PCCPCH ::= CHOICEENUMERATED {
  case3          Case3-CellsetupRqstTDD
}

```

```

Case3-CellsetupRqstTDD ::= SEQUENCE {
  timeSlot          TimeSlot,
  iE-Extensions    ProtocolExtensionContainer { { Case3-CellsetupRqstTDD-
  ExtIEs} } OPTIONAL,
  ...
}

```

```

Case3-CellsetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

TimeSlotConfigurationList-Cell-SsetupRqstTDD ::= SEQUENCE (SIZE (1..15)) OF
  ProtocolIE-Container{ { TimeSlotConfigurationItemList-Cell-SsetupRqstTDD-ItemIE-} }

```

```

TimeSlotConfigurationItemList-Cell-SsetupRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID- id-TimeSlotConfigurationItemList-Cell-SsetupRqstTDDItem CRITICALITY-
  ignore TYPE TimeSlotConfigurationItemList-Cell-
  SsetupRqstTDDItem PRESENCE mandatory
  },
  ...
}

```

```

TimeSlotConfigurationItemList-Cell-SsetupRqstTDDItem ::= 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 ignore PRESENCE mandatory }|
  TYPE C-ID }
  { ID id-ConfigurationGenerationID CRITICALITY ignore PRESENCE mandatory }|
  TYPE ConfigurationGenerationID }
  { ID id-MaximumTransmissionPower CRITICALITY ignore PRESENCE optional }|
  TYPE MaximumTransmissionPower }
  { ID id-PrimarySCH-Information-Cell-R#econf-R#steqFDD CRITICALITY ignore PRESENCE optional }|
  TYPE PrimarySCH-Information-Cell-R#econf-R#steqFDD }
  { ID id-SecondarySCH-Information-Cell-R#econf-R#steqFDD CRITICALITY ignore PRESENCE optional }|
  TYPE SecondarySCH-Information-Cell-R#econf-R#steqFDD }
  { ID id-PrimaryCPICH-Information-Cell-R#econf-R#steqFDD CRITICALITY ignore PRESENCE optional }|
  TYPE PrimaryCPICH-Information-Cell-R#econf-R#steqFDD }
  { ID id-SecondaryCPICH-Information-Cell-R#econf-R#steqFDD CRITICALITY ignore PRESENCE optional }|
  TYPE SecondaryCPICH-Information-Cell-R#econf-R#steqFDD }
}
  { ID id-PrimaryCCPCH-Information-Cell-R#econf-R#steqFDD CRITICALITY ignore PRESENCE optional },
  TYPE PrimaryCCPCH-Information-Cell-R#econf-R#steqFDD },
  ...
}

```

```

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

```

```

PrimarySCH-Information-Cell-R#econf-R#steqFDD ::= 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-R#econf-R#steqFDD ::= 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-R#econf-R#steqFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  primaryCPICH-Power PrimaryCPICH-PowerDL-Power,
  iE-Extensions ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

```

```

SecondaryCPICH-Information-Cell-R#econf-R#steqFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  secondaryCPICH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { SecondaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

```

```

PrimaryCCPCH-Information-Cell-R#econf-R#steqFDD ::= SEQUENCE {
  bCH-information BCH-information-Cell-R#econf-R#steqFDD,

```

```
    iE-Extensions ProtocolExtensionContainer { { PrimaryCCPCH-Information-
Cell-ReconfRgstFDD-ExtIEs } } OPTIONAL,
    ...
}
```

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

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

```
BCH-information-Cell-ReconfRgstFDD-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-LocalCell-ID CRITICALITY ignore TYPE LocalCell-ID PRESENCE
mandatory }+
    { ID id-C-ID CRITICALITY ignore TYPE
C-ID PRESENCE mandatory }|
    { ID id-ConfigurationGeneration-ID CRITICALITY ignore TYPE
ConfigurationGeneration-ID PRESENCE mandatoryoptional }|
    { ID id-MaximumTransmissionPower CRITICALITY ignore TYPE MaximumTransmissionPower
PRESENCE optional }+
    { ID id-PSCH-Information-Cell-ReconfRgstFDD CRITICALITY ignore
TYPE PSCH-Information-Cell-ReconfRgstFDD PRESENCE optional }|
    { ID id-PCCPCH-Information-Cell-ReconfRgstFDD CRITICALITY ignore
TYPE PCCPCH-Information-Cell-ReconfRgstFDD PRESENCE optional }|
    { ID id-MaximumTransmissionPower CRITICALITY ignore TYPE
MaximumTransmissionPower PRESENCE optional }|
    { ID id-TimeSlotConfigurationList-Cell-ReconfRgstFDD CRITICALITY ignore
TYPE TimeSlotConfigurationList-Cell-ReconfRgstFDD PRESENCE optionalmandatory },
    ...
}
```

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

```
PSCH-Information-Cell-ReconfRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    pSCH-Power PSCH-Power,
    iE-Extensions ProtocolExtensionContainer { { PSCH-Information-Cell-
ReconfRgstTDD-ExtIEs } } OPTIONAL,
    ...
}
```

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

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

```

}

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

TimeSlotConfigurationList-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..15)) OF
    ProtocolIE-Container {{ TimeSlotConfigurationItemIE-Cell-ReconfRqstTDDItemIE }}

TimeSlotConfigurationItemIE-Cell-ReconfRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID- id-TimeSlotConfigurationItem-Cell-ReconfRqstTDDItem CRITICALITY ignore
      TYPE- TimeSlotConfigurationItem-Cell-ReconfRqstTDDItem PRESENCE mandatory
    },
    ...
}

TimeSlotConfigurationItem-Cell-ReconfRqstTDDItem ::= SEQUENCE {
    timeSlot TimeSlot,
    timeSlot Status 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-CriticalityDiagnostic CRITICALITY ignore TYPE-TYPE
      CriticalityDiagnostic PRESENCE optional
    },
    ...
}

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

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

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

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

```



```

}

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

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

CellDeletionRequest ::= SEQUENCE {
    protocolIEs _____ ProtocolIE-Container _____
    {{CellDeletionRequest-IEs}},
    protocolExtensions _____ ProtocolExtensionContainer_{{CellDeletionRequest-
Extensions}} _____ OPTIONAL,
    privateExtensions _____ PrivateExtensionContainer_{{CellDeletionRequest-
PrivateExtensions}} _____ OPTIONAL,
    ...
}

CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID_ id-C-ID _____ CRITICALITY_ _____ ignore _____ 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
      Cause
      ...
    }
    PRESENCE optional mandatory },
    ignore TYPE
}

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

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

No-Failure-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList-ResourceStatInd Local-Cell-
    InformationList-ResourceStatusInd,
    iE-Extensions ProtocolExtensionContainer { { No-Failure-
    ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

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

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF
    ProtocolIE-Container {{Local-CellInformation-ResourceStatIndItemIE}}

Local-CellInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-Local-CellInformation-ResourceStatIndItem CRITICALITY ignore TYPE Local-
    CellInformation-ResourceStatIndItem PRESENCE mandatory },
    ...
}

Local-CellInformation-ResourceStatIndItem ::= SEQUENCE {
    local-Cell-ID Local-Cell-ID,
    addOrDeleteIndicator AddOrDeleteIndicator,
    numberOfChannelElements NumberOfChannelElements,
    maximum-DL-PowerCapability Maximum-DL-PowerCapability,
    iE-Extensions ProtocolExtensionContainer { { Local-Cell-
    InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

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

ServiceImpacting-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList-ResourceStatInd Local-Cell-InformationList2-
    ResourceStatusInd OPTIONAL,
    cCP-ommunicationControlPortInformationList-ResourceStatInd
    CCP-ommunicationControlPortInformationList-ResourceStatusInd OPTIONAL,
    cell-InformationList-ResourceStatInd Cell-InformationList-
    ResourceStatusInd OPTIONAL,
    primary-SCH-Information P-SCH-Information-ResourceStatusInd-Audit-Res
    OPTIONAL,
    secondary-SCH-Information S-SCH-Information-ResourceStatusInd-Audit-Res
    OPTIONAL,
    primary-CPICH-Information P-CPICH-Information-ResourceStatusInd-Audit-Res
    OPTIONAL,
    secondary-CPICH-Information S-CPICH-InformationList-ResourceStatusInd-Audit-Res
    OPTIONAL,
    primary-CCPCH-Information P-CCPCH-Information-ResourceStatusInd-Audit-Res
    OPTIONAL,
    bCH-InformationItem-ResourceStatInd BCH-InformationItem-
    ResourceStatusInd OPTIONAL,
    secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd-Audit-Res
    OPTIONAL,
    pCH-InformationList-ResourceStatInd PCH-InformationList-
    ResourceStatusInd OPTIONAL,
    pICH-InformationItem-ResourceStatInd PICH-InformationItem-
    ResourceStatusInd OPTIONAL,
    fACH-InformationList-ResourceStatInd FACH-InformationList-
    ResourceStatusInd OPTIONAL,
}

```

```

pRACH-InformationList _____ PRACH-InformationList-ResourceStatusInd-Audit-Res
OPTIONAL,
rACH-InformationList-ResourceStatInd _____ RACH-InformationList-
ResourceStatusInd _____ OPTIONAL,
aICH-InformationList-ResourceStatInd _____ AICH-InformationList-
ResourceStatusInd _____ OPTIONAL,
sCH-InformationList-ResourceStatInd _____ SCH-InformationList-
ResourceStatusInd _____ OPTIONAL,
pSCH-InformationList _____ PSCH-InformationList-ResourceStatusInd-Audit-Res
OPTIONAL,
iE-Extensions _____ ProtocolExtensionContainer { { ServiceImpacting-
ResourceStatusInd-ExtIEs } } _____ OPTIONAL,
...
}

```

```

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

```

```

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

```

```

Local-Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-Information-ResourceStatIndItem CRITICALITY ignore TYPE Local-Cell-
Information-ResourceStatIndItem PRESENCE mandatory },
...
}

```

```

Local-Cell-Information-ResourceStatIndItem ::= SEQUENCE {
local-Cell-ID _____ Local-Cell-ID,
numberOfChannelElements _____ NumberOfChannelElements _____ OPTIONAL,
maximum-DL-PowerCapability _____ Maximum-DL-PowerCapability _____ OPTIONAL,
iE-Extensions _____ ProtocolExtensionContainer { { Local-Cell-
InformationList2-ResourceStatusInd-ExtIEs } } _____ OPTIONAL,
...
}

```

```

Local-Cell-InformationList2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

CCP-ommunicationControlPortInformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB))
OF
ProtocolIE-Container {{CommunicationControlPortInformation-ResourceStatIndItemIE }}

```

```

CommunicationControlPortInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-CommunicationControlPortInformation-ResourceStatIndItem
CRITICALITY ignore _____ TYPE _____ CommunicationControlPortInformation-
ResourceStatIndItem
PRESENCE mandatory },
...
}

```

```

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

```

```

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

```

```

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

```

```

Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-Cell-Information-ResourceStatIndItem CRITICALITY ignore TYPE Cell-Information-
ResourceStatIndItem PRESENCE mandatory },
...
}

```

```

Cell-Information-ResourceStatIndItem ::= SEQUENCE {
c-ID _____ C-ID,

```

```

    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    maximumDL-PowerCapability MaximumDL-PowerCapability, --to do: FFS
    minimumSpreadingFactor MinimumSpreadingFactor, --to do: FFS
    iE-Extensions ProtocolExtensionContainer { { Cell-InformationList-
ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

S-CPICH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonPhysicalTransportChannelID CommonPhysicalTransportChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { S-CPICH-
InformationList-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF
SEQUENCE {
commonPhysicalChannelID _____ CommonPhysicalChannelID,
resourceOperationalState _____ ResourceOperationalState,
availabilityStatus _____ AvailabilityStatus,
iE-Extensions _____ ProtocolExtensionContainer { { S-CCPCH-
Information-ResourceStatusInd-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

PCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCHCellinNodeB)) OF
ProtocolIE-Container {{PCH-Information-ResourceStatIndItemIE}}

```

```

PCH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
{ ID id PCH Information ResourceStatIndItem CRITICALITY ignore TYPE PCH Information-
ResourceStatIndItem PRESENCE mandatory},
...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

FACH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {

```

```
----- { ID id-FACH-Information-ResourceStatIndItem CRITICALITY ignore TYPE FACH-Information-ResourceStatIndItem PRESENCE mandatory},  
-----  
-----  
}
```

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

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

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

```
----- { ID id-PRACH-InformationItem-ResourceStatInd CRITICALITY ignore TYPE PRACH-InformationItem-ResourceStatInd PRESENCE mandatory},  
-----  
-----  
}
```

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

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

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

```
----- { ID id-RACH-Information-ResourceStatIndItem CRITICALITY ignore TYPE RACH-Information-ResourceStatIndItem PRESENCE mandatory},  
-----  
-----  
}
```

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

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

```
AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRAAICHCell)) OF  
ProtocolIE-Container {{AICH-Information-ResourceStatIndItemIE}}
```

```
----- { ID id-AICH-Information-ResourceStatIndItem CRITICALITY ignore TYPE AICH-Information-ResourceStatIndItem PRESENCE mandatory},  
-----  
-----  
}
```

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

```

...
}

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

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

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

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

PSCH-Information-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 ignore TYPE_C-
PRESENCE mandatory }|
{ ID id-BCCCH-ModificationTime CRITICALITY ignore TYPE-
BCCCH-ModificationTime PRESENCE optionalmandatory }|
{ ID id-MIB-SIB-InformationList-SystemInfoUpdateRqst CRITICALITY ignore TYPE
MIB-SIB-InformationList-SystemInfoUpdateRqst
PRESENCE mandatoryoptional }
},
...
}

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

MIB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF
ProtocolIE-Container{ { MIB-SIB-InformationItemIEList-SystemInfoUpdateRqstItemIE } }

MIB-SIB-InformationItemIEList-SystemInfoUpdateRqstItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-MIB-SIB-InformationItemIEList-SystemInfoUpdateRqstItem CRITICALITY ignore
TYPE MIB-SIB-InformationItemIEList-SystemInfoUpdateRqstItem PRESENCE
mandatoryoptional }
},
...
}

MIB-SIB-InformationItemIEList-SystemInfoUpdateRqstItem ::= SEQUENCE {
iB-Type IB-Type,
sIB-DeletionIndicator SIB-DeletionIndicator OPTIONAL,

```

```

-- This IE shall be present if the IB-Type is not equal to "MIB"
sIB-DeletionIndicator SystemInfoUpdateRqst,
iE-Extensions ProtocolExtensionContainer { { MIB-SIB-InformationItem-
SystemInfoUpdateRqst-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

SIB-DeletionIndicator-SystemInfoUpdateRqst ::= CHOICEENUMERATED {
no-Deletion No-Deletion-SystemInfoUpdateRqst
}

```

```

No-DeletionList-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
ProtocolIE-Container{{ No-DeletionList-SystemInfoUpdateItemIE }}

```

```

No-DeletionList-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
{ ID id No-DeletionList-SystemInfoUpdate CRITICALITY ignore TYPE No-DeletionList-
SystemInfoUpdate PRESENCE optional },
...
}

```

```

No-DeletionList-SystemInfoUpdateRqst ::= SEQUENCE {
sIB-Originator sIB-Originator OPTIONAL,
-- This IE shall be present if the IB-Type is not equal to "MIB"
segmentInformationList SegmentInformationList-SystemInfoUpdateRqst,
iE-Extensions ProtocolExtensionContainer { { No-Deletion-
SystemInfoUpdateRqst-ExtIEs} } OPTIONAL,
...
}

```

```

No-Deletion-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

SegmentInformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
ProtocolIE-Container{{ SegmentInformation-SystemInfoUpdateItemIE }}

```

```

SegmentInformation-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
{ ID id SegmentInformation-SystemInfoUpdateItem CRITICALITY ignore TYPE
SegmentInformation-SystemInfoUpdateItem PRESENCE optional },
...
}

```

```

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

```

```

SegmentInformationList-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- ignore TYPE
      CRNC-CommunicationContextID PRESENCE- mandatory }|
    { ID- id-UL-DPCH-InformationItem-RL-SetupRqsteq-FDD CRITICALITY- ignore
      TYPE- UL-DPCH-InformationItem-RL-SetupRqsteq-FDD PRESENCE- mandatory }|
    { ID- id-DL-DPCH-InformationItem-RL-SetupRqsteq-FDD CRITICALITY- ignore
      TYPE- DL-DPCH-InformationItem-RL-SetupRqsteq-FDD PRESENCE- mandatory }|
    { ID- id-DCH-InformationList-RL-SetupRqsteq-FDD CRITICALITY- ignore TYPE-
      DCH-InformationList-RL-SetupRqsteq-FDD PRESENCE- mandatory }|
    { ID- id-RL-ID CRITICALITY- ignore TYPE-
      RL-ID PRESENCE- optional }|
    { ID- id-DSCH-TFCSID CRITICALITY- ignore TYPE-
      DSCH-TFCSID PRESENCE- optional }|
    { ID- id-DSCH-InformationList-RL-SetupRqsteq-FDD CRITICALITY- ignore TYPE-
      DSCH-InformationList-RL-SetupRqsteq-FDD PRESENCE- optional }|
    { ID- id-RL-InformationList-RL-SetupRqsteq-FDD CRITICALITY- ignore TYPE-
      RL-InformationList-RL-SetupRqsteq-FDD PRESENCE- mandatory },
    ...
}

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

```

```

UL-DPCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode,
    minUL-ChannelisationCodeLength  MinUL-ChannelisationCodeLength,
    maxNumberOfUL-DPDCHs      MaxNumberOfUL-DPDCHs OPTIONAL,
    -- This IE is present only if "Min UL Channelisation Code length" equals to 4 --
    ul-PunctureLimit          UL-PunctureLimit,
    transportFormatCombinationSet  TransportFormatCombinationSet,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat,
    ul-EbNo-Target             UL-EbNo,
    diversityMode              DiversityMode,
    d-FieldLength              D-FieldLength OPTIONAL,
    -- This IE is present only if Feed Back mode diversity is activated --
    sSDT-Cell-ID-Length        SSDT-Cell-ID-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-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    transportFormatCombinationSet  TransportFormatCombinationSet,
    dl-DPCH-SlotFormat             DL-DPCH-SlotFormat,
    tFCI-SignallingMode            TFCI-SignallingMode,
    multiplexingPosition           MultiplexingPosition,
    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,
    powerOffsetInformationItem-RL-SetupRqstFDD
    PowerOffsetInformationItem-RL-SetupRqstFDD,
    delta-TPC                      Delta-TPC,
    iE-Extensions                  ProtocolExtensionContainer { { DL-DPCH-Information-RL-
SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

PowerOffsetInformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    p01-ForTFCI-Bits             PowerOffset,
    p02-ForTPC-Bits              PowerOffset,
    p03-ForPilotBits             PowerOffset,
    iE-Extensions                ProtocolExtensionContainer { { PowerOffsetInformation-
RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNumberOfDCHs)) OF
    ProtocolIE-Container{ { DCH-InformationItemIE-RL-SetupRqstFDDItemIE } }

```

```

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

```

```

DCH-InformationItem-RL-SetupRqstFDDItem ::= SEQUENCE {
    dCH-ID                        DCH-ID,
    dCH-CombinationIndication     DCH-CombinationIndication OPTIONAL,
    rLC-Mode                      RLC-Mode,
    ul-TransportFormatSet         TransportFormatSet,
    dl-TransportFormatSet         TransportFormatSet,
    frameHandlingPriority         FrameHandlingPriority,
    payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
    ul-FP-Mode                    UL-FP-Mode,
    toAWS                          ToAWS,
    toAWE                          ToAWE,
}

```

```
    iE-Extensions ProtocolExtensionContainer { { DCH-InformationItem-RL-  
SetupRqstFDD-ExtIEs } } OPTIONAL,  
    ...  
}
```

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

```
DSCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfneofDSCHs)) OF  
ProtocolIE-Container{{ DSCH-InformationItemIE-RL-SetupRqstFDDItemIE }}
```

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

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

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

```
RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfneofRLs)) OF  
ProtocolIE-Container{{ RL-InformationItemIE-RL-SetupRqstFDDItemIE }}
```

```
RL-InformationItemIE-RL-SetupRqstFDDItemIE NBAP-PROTOCOL-IES ::= {  
    { ID id-RL-InformationItem-RL-SetupRqstFDDItem CRITICALITY ignore  
TYPE RL-InformationItem-RL-SetupRqstFDDItem PRESENCE mandatoryoptional },  
    ...  
}
```

```
RL-InformationItem-RL-SetupRqstFDDItem ::= SEQUENCE {  
    rL-ID RL-ID,  
    c-ID C-ID,  
    frameOffset FrameOffset,  
    chipOffset ChipOffset,  
    propagationDelay PropagationDelay OPTIONAL,  
    diversityControlField DiversityControlField OPTIONAL,  
    -- This IE is present only if the RL is not the first one in the RL Information  
dl-CodeInformationList-RL-SetupReqFDD DL-  
CodeInformationList-RL-SetupRqstFDD,  
    initialDL-transmissionPower DL-Power,  
    maximumDL-power DL-Power,  
    minimumDL-power DL-Power,  
    sSDT-Cell-Identity SSdT-Cell-Identity OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-RL-  
SetupRqstFDD-ExtIEs } } OPTIONAL,  
    ...  
}
```

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

```
DL-CodeInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfneofRLsCodes)) OF  
ProtocolIE-Container{{ DL-CodeInformation-RL-SetupReqFDDItemIE }}
```

```
DL-CodeInformation-RL-SetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {  
    { ID id-DL-CodeInformation-RL-SetupReqFDDItem CRITICALITY ignore TYPE DL-CodeInformation-RL-  
SetupReqFDDItem PRESENCE optional },  
    ...  
}
```

```
DL-CodeInformation-RL-SetupReqFDDItem ::= SEQUENCE {  
    dl-ScramblingCode DL-ScramblingCode,  
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
```

```
        iE-Extensions ProtocolExtensionContainer { { DL-
CodeInformationList-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
        ...
    }
}
```

```
DL-CodeInformationList-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 ignore TYPE
CRNC-CommunicationContextID PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY ignore
TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY ignore TYPE
UL-DPCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY ignore TYPE
DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY ignore TYPE
DL-DPCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-DCH-InformationList-RL-SetupRqstTDD CRITICALITY ignore
TYPE DCH-InformationList-RL-SetupRqstTDD PRESENCE optional mandatory } |
    { ID id-DSCH-InformationList-RL-SetupRqstTDD CRITICALITY ignore TYPE
DSCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-USCH-InformationList-RL-SetupRqstTDD CRITICALITY ignore TYPE
USCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-RL-InformationItem-RL-SetupRqstTDD CRITICALITY ignore
TYPE RL-InformationItem-RL-SetupRqstTDD PRESENCE mandatory },
    ...
}
```

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

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

```
UL-CCTrCH-InformationItemIE-RL-SetupRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDDItem CRITICALITY ignore
TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDDItem PRESENCE mandatory },
    ...
}
```

```
UL-CCTrCH-InformationItem-RL-SetupRqstTDDItem ::= SEQUENCE {
    cCtRCH-ID CCTrCH-ID,
    transportFormatCombinationSet TransportFormatCombinationSet,
    tFCI-Coding TFCI-Coding,
    puncturing-Limit Puncturing-Limit,
    ul-DPCH-InformationList-RL-SetupReqTDD UL-DPCH-InformationList-RL-
SetupReqTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-
InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}
```

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

```
UL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfDPCHs)) OF
ProtocolIE-Container{{ UL-DPCH-InformationItemIE-RL-SetupRqstTDDItemIE }}
```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

DL-CCTrCH-InformationItem-RL-SetupRqstTDDItem ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  transportFormatCombinationSet TransportFormatCombinationSet,
  tFCI-Coding TFCI-Coding,
  puncturing-Limit Puncturing-Limit,
  dl-DPCH-InformationList-RL-SetupReqTDD DL-DPCH-InformationList-RL-
  SetupReqTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-
  InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

```

```

DL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF
  ProtocolIE-Container({ DL-DPCH-InformationItemIE-RL-SetupRqstTDDItemIE })

```

```

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

```

```

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

```

```

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

```

```

DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF
  ProtocolIE-Container{{_DCH-InformationItemIE-RL-SetupRqstTDDItemIE}}

DCH-InformationItemIE-RL-SetupRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
  {_ID_ID id-DCH-InformationItem-RL-SetupRqstTDDItem CRITICALITY ignore
  TYPE DCH-InformationItem-RL-SetupRqstTDDItem PRESENCE mandatory},
  ...
}

DCH-InformationItem-RL-SetupRqstTDDItem ::= SEQUENCE {
  dCH-ID DCH-ID,
  rLC-Mode RLC-Mode,
  ul-CCTrCH-ID UL-CCTrCH-ID,
  dl-CCTrCH-ID DL-CCTrCH-ID,
  dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
  ul-TransportFormatSet TransportFormatSet,
  dl-TransportFormatSet TransportFormatSet,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
  ul-FP-Mode UL-FP-Mode,
  toAWE ToAWE,
  toAWS ToAWS,
  toAWE ToAWE,
  iE-Extensions ProtocolExtensionContainer {{ DCH-InformationItem-RL-
  SetupRqstTDD-ExtIEs}} OPTIONAL,
  ...
}

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

DSCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF
  ProtocolIE-Container{{_DSCH-InformationItemIE-RL-SetupRqstTDDItemIE}}

DSCH-InformationItemIE-RL-SetupRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
  {_ID_ID id-DSCH-InformationItem-RL-SetupRqstTDDItem CRITICALITY ignore
  TYPE DSCH-InformationItem-RL-SetupRqstTDDItem PRESENCE mandatory},
  ...
}

DSCH-InformationItem-RL-SetupRqstTDDItem ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  cCTrCH-ID CCTrCH-ID,
  transportFormatSet TransportFormatSet,
  frameHandlingPriority FrameHandlingPriority,
  toAWS ToAWS,
  toAWE ToAWE,
  toAWS ToAWS,
  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
  ProtocolIE-Container{{_USCH-InformationItemIE-RL-SetupRqstTDDItemIE}}

USCH-InformationItemIE-RL-SetupRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
  {_ID_ID id-USCH-InformationItem-RL-SetupRqstTDDItem CRITICALITY ignore
  TYPE USCH-InformationItem-RL-SetupRqstTDDItem PRESENCE mandatory},
  ...
}

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

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

```

```

}
RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
  rL-ID                               RL-ID,
  c-ID                               C-ID,
  tdd-PhysicalChannelOffset          TDD-PhysicalChannelOffset,
  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 PRESENCE mandatory } | ignore TYPE
  CRNC-CommunicationContextID
  { ID id-NodeB-CommunicationContextID PRESENCE mandatory } | ignore TYPE
  NodeB-CommunicationContextID
  { ID id-CommunicationControlPortID PRESENCE mandatory } | ignore TYPE
  CommunicationControlPortID
  { ID id-RL-InformationResponseList-RL-SetupRespFDD PRESENCE mandatory } | ignore TYPE
  RL-InformationResponseList-RL-SetupRespFDD
  { ID id-CriticalityDiagnostics PRESENCE optional } | ignore TYPE
  CriticalityDiagnostics
  },
  ...
}

```

```

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

```

```

RL-InformationResponseList-RL-SetupRespFDD ::= SEQUENCE (SIZE (1..maxNrOfRls)) OF
  ProtocolIE-Container{{RL-InformationResponseItemIE-RL-SetupRespFDDItemIE}}

```

```

RL-InformationResponseItemIE-RL-SetupRespFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-SetupRespFDDItem PRESENCE mandatory } | ignore
  TYPE RL-InformationResponseItem-RL-SetupRespFDDItem
  },
  ...
}

```

```

RL-InformationResponseItem-RL-SetupRespFDDItem ::= SEQUENCE {
  rL-ID                               RL-ID,
  ul-InterferenceLevel                UL-InterferenceLevel,
  diversityIndication-RL-SetupRspFDD DiversityIndication-RL-SetupRspFDD OPTIONAL,
  -- This IE is present only if the RL is not the first one in the RL Information
  dSCH-InformationResponseList-RL-SetupRespFDD DSCH-
InformationResponseList-RL-SetupRespFDD 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 ::= CHOICEENUMERATED {
    combining
        Combining-RL-SetupRspFDDItem,
    nonCombiningOrIENotPrsentnon-Combining
        NonCombiningOrIENotPrsent-RL-
        SetupRspFDDNon-CombiningItem
}

Combining-RL-SetupRspFDDItem ::= SEQUENCE {
    rLdCH-ID
        RLdCH-ID,
    iE-Extensions
        ProtocolExtensionContainer { { Combining-RL-
        SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

NonCombiningOrIENotPrsent-RL-SetupRspFDDNon-CombiningItem ::= SEQUENCE {
    dCH-InformationResponseList-RL-setupResFDD
        DCH-InformationResponseList-RL-
        SsetupResFDD OPTIONAL,
    iE-Extensions
        ProtocolExtensionContainer { {
        NonCombiningOrIENotPrsent-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DCH-InformationResponseList-RL-SsetupResFDD ::= SEQUENCE (SIZE (1..maxNrOfneofDCHs)) OF
    ProtocolIE-Container{{DCH-InformationResponse-RL-setupResFDDItemIE}}

DCH-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse-RL-setupResFDDItem CRITICALITY ignore TYPE DCH-
    InformationResponse-RL-setupResFDDItem PRESENCE mandatory }},
    ...
}

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

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

DSCH-InformationResponseList-RL-SsetupResFDD ::= SEQUENCE (SIZE (1..maxNrOfnumofDSCHs)) OF
    ProtocolIE-Container{{DSCH-InformationResponse-RL-setupResFDDItemIE}}

-- ** TODO **
numofDSCH INTEGER ::= 10

DSCH-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse-RL-setupResFDDItem CRITICALITY ignore TYPE DSCH-
    InformationResponse-RL-setupResFDDItem
    PRESENCE mandatory }},
    ...
}

DSCH-InformationResponse-RL-setupResFDDItem ::= SEQUENCE {
    dsCH-ID
        DSCH-ID,
    bindingID
        BindingID,
    transportLayerAddress
        TransportLayerAddress,
    iE-Extensions
        ProtocolExtensionContainer { { DSCH-
        InformationResponseList-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

```



```

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

```

```

RadioLinkSetupResponseTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container Container
  {{RadioLinkSetupResponseTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer
  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-SsetupRespTDD CRITICALITY ignore TYPE
  -RL-InformationResponse-RL-SsetupRespTDD PRESENCE mandatory }|
  { ID id-DCH-InformationResponseList-RL-SetupRspTDD CRITICALITY ignore TYPE
  -DCH-InformationResponseList-RL-SetupRspTDD PRESENCE mandatory }|
  { ID id-DSCH-InformationResponseList-RL-SsetupRespTDD CRITICALITY ignore
  TYPE DSCH-InformationResponseList-RL-SsetupRespTDD PRESENCE -optional
  }|
  { ID id-USCH-InformationResponseList-RL-SsetupRespTDD CRITICALITY ignore
  TYPE USCH-InformationResponseList-RL-SsetupRespTDD PRESENCE -optional
  }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE
  -CriticalityDiagnostics PRESENCE -optional
  },
  ...
}

```

```

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

```

```

RL-InformationResponseList-RL-SsetupRespTDD ::= SEQUENCE {
  rL-ID RL-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  dCH-InformationResponseList-RL-setupResTDD DCH-
  InformationResponseList-RL-setupResTDD
  iE-Extensions ProtocolExtensionContainer {{ RL-
  InformationResponseList-RL-SetupRspTDD-ExtIEs }}
  OPTIONAL,
  ...
}

```

```

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

```

```

DCH-InformationResponseList-RL-SsetupRespTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
  ProtocolIE-Container{{ DCH-InformationResponseItemIE-RL-SsetupRespTDDItemIE }}

```

```

-DCH-InformationResponseItemIE-RL-SsetupRespTDDItemIE NBAP-PROTOCOL-IES ::= {
  { I-D id-DCH-InformationResponseItem-RL-SsetupRespTDDItem CRITICALITY ignore TYPE
  DCH-InformationResponseItem-RL-SsetupRespTDD Item PRESENCE mandatory
  },
  ...
}

```

```

-DCH-InformationResponseItem-RL-SsetupRespTDDItem ::= 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-SetupRespTDD ::= SEQUENCE (SIZE (1..maxNrOfneofDSCHs)) OF
ProtocolIE-Container{{_DSCH-InformationResponseItemIE-RL-SetupRespTDD_ItemIE}}
```

```
DSCH-InformationResponseItemIE-RL-SetupRespTDDItemIE NBAP-PROTOCOL-IES ::= {
  {_ID_id-DSCH-InformationResponseItem-RL-SetupRespTDDItem CRITICALITY ignore
  TYPE DSCH-InformationResponseItem-RL-SetupRespTDDItem PRESENCE
  mandatory
},
...
}
```

```
DSCH-InformationResponseItem-RL-SetupRespTDDItem ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  binding-ID Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions ProtocolExtensionContainer { { DSCH-
InformationResponseItem-RL-SetupRespTDD-ExtIEs } } OPTIONAL,
...
}
```

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

```
USCH-InformationResponseList-RL-SetupRespTDD ::= SEQUENCE (SIZE (1..maxNrOfneofUSCHs)) OF
ProtocolIE-Container{{_USCH-InformationResponseItemIE-RL-SetupRespTDD_ItemIE}}
```

```
USCH-InformationResponseItemIE-RL-SetupRespTDDItemIE NBAP-PROTOCOL-IES ::= {
  {_ID_id-USCH-InformationResponseItem-RL-SetupRespTDDItem CRITICALITY ignore
  TYPE USCH-InformationResponseItem-RL-SetupRespTDDItem PRESENCE mandatory
},
...
}
```

```
USCH-InformationResponseItem-RL-SetupRespTDDItem ::= SEQUENCE {
  uSCH-ID USCH-ID,
  binding-ID Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions ProtocolExtensionContainer { { USCH-
InformationResponseItem-RL-SetupRespTDD-ExtIEs } } OPTIONAL,
...
}
```

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

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

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

```
RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID_id-CRNC-CommunicationContextID CRITICALITY ignore
  TYPE CRNC-CommunicationContextID PRESENCE
  mandatory }|
  { ID_id-NodeB-CommunicationContextID CRITICALITY ignore
  TYPE NodeB-CommunicationContextID PRESENCE
  mandatory }|
  { I-D_id-CommunicationControlPortID CRITICALITY ignore
  TYPE CommunicationControlPortID PRESENCE mandatory
  }|
  { ID_id-Unsuccessful-RL-InformationResponseList-RL-SetupFailureFDD
  CRITICALITY ignore TYPE Unsuccessful-RL-InformationResponseList-
  RL-SetupFailureFDD
}
```

```

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

```

```

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

```

```

Unsuccessful-RL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE
(1..maxNrOfRls)) -OF
ProtocolIE-Container { { Unsuccessful-RL-InformationResponseItemIE-RL-SetupFailureFDDItemIE } }

```

```

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

```

```

Unsuccessful-RL-InformationResponseItem-RL-SetupFailureFDDItem ::= 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 ::= {
...
}

```

```

-- maxNrOfRls-1
Successful-RL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..
maxNrOfRls-1)) -OF
ProtocolIE-Container { { Successful-RL-InformationResponseItemIE-RL-SetupFailureFDDItemIE } }

```

```

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

```

```

Successful-RL-InformationResponseItem-RL-SetupFailureFDDItem ::= SEQUENCE {
rL-ID RL-ID,
ul-InterferenceLevel UL-InterferenceLevel,

diversityIndication DiversityIndication-RL-SetupFailureFDD-
OPTIONAL,
-- This IE is present if at least one of the RL is not the first one in the RL information
dSCH-InformationResponseList-RL-SetupFailureFDD DSCH-
InformationResponseList-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 ::= CHOICEENUMERATED {
combining Combining-RL-SetupFailureFDD,
nonCombiningOrIENotPrsent nonCombining NonCombiningOrIENotPrsent-RL-
SetupFailureFDD-NonCombiningRL-SetupFailureFDD
}

```

```

}

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

```

```

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

```

```

NonCombiningOrIENotPrsent-RL-SetupFailureFDDNon-Combining-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponseList-RL-SetupFailureFDD                               DCH-
InformationResponseList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions                        ProtocolExtensionContainer { {
NonCombiningOrIENotPrsent-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

DCH-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container{{DCH-InformationResponse-RL-SetupFailureFDDItemIE }}

```

```

DCH-InformationResponse-RL-SetupFailureFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse-RL-SetupFailureFDDItem CRITICALITY ignore TYPE DCH-
InformationResponse-RL-SetupFailureFDDItem PRESENCE mandatory },
    ...
}

```

```

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

```

```

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

```

```

DSCH-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF
ProtocolIE-Container{{DSCH-InformationResponse-RL-SetupFailureFDDItemIE }}

```

```

DSCH-InformationResponse-RL-SetupFailureFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse-RL-SetupFailureFDDItem CRITICALITY ignore TYPE
DSCH-InformationResponse-RL-SetupFailureFDDItem PRESENCE mandatory },
    ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

Unsuccessful-RL-InformationResponseItem-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 protocolIEs ProtocolIE-Container Container
  {{RadioLinkAdditionRequestFDD-IEs}},
  protocolExtensions protocolExtensions ProtocolExtensionContainer
  {{RadioLinkAdditionRequestFDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID -id-NodeB-CommunicationContextID CRITICALITY -ignore TYPE
NodeB-CommunicationContextID PRESENCE -mandatory } |
  { ID -id-RL-InformationList-RL-Addition-RgsteqFDD CRITICALITY -ignore TYPE
-RL-InformationList-RL-Addition-RgsteqFDD PRESENCE -mandatory optional } ,
  ...
}

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

RadioLinkAdditionRequestFDD-PrivateExtensions NBAP-PRIVATE-EXTENSION ::= {
  ...
}

RL-InformationList-RL-Addition-RgsteqFDD ::= SEQUENCE (SIZE (1..maxNrOfneofRLs-1)) OF
  ProtocolIE-Container { { RL-InformationItemIEList-RL-Addition-RgsteqFDDItemIE } }

RL-InformationItemIEList-RL-Addition-RgsteqFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID -id-RL-InformationItemIEList-RL-Addition-RgsteqFDDItem CRITICALITY -ignore
TYPE -RL-InformationItemIEList-RL-Addition-RgsteqFDDItem PRESENCE
mandatory } ,
  ...
}

RL-InformationItemIEList-RL-Addition-RgsteqFDDItem ::= SEQUENCE {
  rL-ID RL-ID,

```

```

c-ID C-ID,
frameOffset FrameOffset,
chipOffset ChipOffset,
diversityControlField DiversityControlField,
dl-CodeInformationList-RL-Add-ReqFDD DL-CodeInformationList-RL-Addition-
RqstFDD,
initialDL-TransmissionPower DL-Power OPTIONAL,
maximumDL-Power DL-Power OPTIONAL,
minimumDL-Power DL-Power OPTIONAL,
sSDT-Cell-Identity SSDT-Cell-Identity OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-
RL-AdditionRqstFDD-ExtIEs } } OPTIONAL,
...
}

```

```

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

```

```

DL-CodeInformationList-RL-Addition-RqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF
ProtocolIE-Container { { DL-CodeInformationList-RL-Add-ReqFDDItemIE } }

```

```

DL-CodeInformationList-RL-Add-ReqFDDItemIE NBAP-PROTOCOL-IES ::= {
...
{ ID id-DL-CodeInformationList-RL-Add-ReqFDD CRITICALITY ignore TYPE DL-
CodeInformationList-RL-Add-ReqFDD PRESENCE mandatory },
...
}

```

```

DL-CodeInformationList-RL-Add-ReqFDD ::= SEQUENCE {
- dl-scramblingCode DL-ScramblingCode,
- fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
iE-Extensions ProtocolExtensionContainer { { DL-
CodeInformationList-RL-AdditionRqstFDD-ExtIEs } } OPTIONAL,
...
}

```

```

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

```

```

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

```

```

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

```

```

RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-NodeB-CommunicationContextID CRITICALITY ignore
TYPE NodeB-CommunicationContextID PRESENCE mandatory }|
{ ID id-UL-CCTrCH-InformationList-RL-Addition-RqstFDD CRITICALITY ignore
TYPE UL-CCTrCH-InformationList-RL-Addition-RqstFDD PRESENCE optional }|
{ ID id-UL-DPCH-InformationList-RL-AdditionRqstTDD CRITICALITY ignore
TYPE UL-DPCH-InformationList-RL-AdditionRqstTDD PRESENCE optional }|
{ ID id-DL-CCTrCH-InformationList-RL-Addition-RqstFDD CRITICALITY ignore
TYPE DL-CCTrCH-InformationList-RL-Addition-RqstFDD PRESENCE optional }|
{ ID id-DL-DPCH-InformationList-RL-AdditionRqstTDD CRITICALITY ignore
TYPE DL-DPCH-InformationList-RL-AdditionRqstTDD PRESENCE optional }|
{ ID id-RL-Information-RL-Addition-RqstFDD CRITICALITY ignore
TYPE RL-Information-RL-Addition-RqstFDD PRESENCE
mandatory },
...
}

```

```

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

```

```

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

```

```

UL-CCTrCH-InformationItemIE-RL-Addition-RgsteqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID           -id-UL-CCTrCH-InformationItem-RL-Addition-RgsteqTDDItem            CRITICALITY            -ignore
             TYPE            UL-CCTrCH-InformationItem-RL-Addition-RgsteqTDDItem            PRESENCE            -mandatory
  },
  ...
}

UL-CCTrCH-InformationItem-RL-Addition-RgsteqTDDItem ::= SEQUENCE {
             cCCTrCH-ID            CCTrCH-ID,
             ul-DPCH-InformationList UL-DPCH-InformationList-RL-Add-ReqTDD            OPTIONAL
             iE-Extensions            ProtocolExtensionContainer { { UL-CCTrCH-
             InformationItem-RL-AdditionRgstTDD-ExtIEs } }            OPTIONAL,
  ...
}

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

UL-DPCH-InformationList-RL-Addition-RgsteqTDD ::= SEQUENCE (SIZE (1..maxNrOfneofDPCHs)) OF
  ProtocolIE-Container { { UL-DPCH-InformationItemIEList-RL-Addition-RgsteqTDDItemIE } }

UL-DPCH-InformationItemIEList-RL-Addition-RgsteqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID           -id-UL-DPCH-InformationItemList-RL-Addition-RgsteqTDDItem            CRITICALITY
             ignore            TYPE            UL-DPCH-InformationItemList-RL-Addition-
             RgsteqTDDItem            PRESENCE            mandatory
  },
  ...
}

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

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

DL-CCTrCH-InformationList-RL-Addition-RgsteqTDD ::= SEQUENCE (SIZE (1..maxNrOfneofCCTrCHs)) OF
  ProtocolIE-Container { { DL-CCTrCH-InformationItemIEList-RL-Addition-RgsteqTDDItemIE } }

DL-CCTrCH-InformationItemIEList-RL-Addition-RgsteqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID           -id-DL-CCTrCH-InformationItemList-RL-Addition-RgsteqTDDItem            CRITICALITY            -ignore
             TYPE            DL-CCTrCH-InformationItemList-RL-Addition-RgsteqTDDItem            PRESENCE
             mandatory
  },
  ...
}

DL-CCTrCH-InformationItemList-RL-Addition-RgsteqTDDItem ::= SEQUENCE {
             cCCTrCH-ID            CCTrCH-ID,
             dl-DPCH-InformationList-RL-Add-ReqTDD DL-DPCH-InformationList-RL-Add-
             ReqTDD            OPTIONAL
             iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-
             InformationItem-RL-AdditionRgstTDD-ExtIEs } }            OPTIONAL,
  ...
}

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

DL-DPCH-InformationList-RL-Addition-RgsteqTDD ::= SEQUENCE (SIZE (1..maxNrOfneofDPCHs)) OF
  ProtocolIE-Container { { DL-DPCH-InformationItemIEList-RL-Addition-RgsteqTDDItemIE } }

DL-DPCH-InformationItemIEList-RL-Addition-RgsteqTDDItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID DL-DPCH-InformationItem-List-RL-Addition-RqstTDD-Item CRITICALITY ignore
    ignore DL-DPCH-InformationItem-List-RL-Addition-RqstTDD-Item PRESENCE mandatory
    mandatory
  },
  ...
}

```

```

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

```

```

DL-DPCH-InformationItem-List-RL-Addition-RqstTDD-Ext-IEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

RL-InformationItem-List-RL-Addition-RqstTDD ::= SEQUENCE {
  rL-ID RL-ID,
  c-ID C-ID,
  eFN CFN OPTIONAL,
  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-
  Addition-RqstTDD-Ext-IEs } } OPTIONAL,
  ...
}

```

```

RL-information-RL-Addition-RqstTDD-Ext-IEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

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

```

```

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

```

```

RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID CRNC-CommunicationContextID CRITICALITY ignore
  TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID RL-ResponseInformationResponseList-RL-Addition-RespFDD CRITICALITY
  ignore TYPE RL-ResponseInformationResponseList-RL-Addition-
  RespFDD PRESENCE mandatory } |
  { ID CriticalityDiagnostics CRITICALITY ignore
  TYPE CriticalityDiagnostics PRESENCE optional }
  },
  ...
}

```

```

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

```

```

RL-ResponseInformationResponseList-RL-Addition-RespFDD ::= SEQUENCE (SIZE (1..maxNrOfNewRLs-1)) OF

```



```

ProtocolIE-Container {{_RL-ResponseInformationResponseItemIEList-RL-Addition-RespFDDItemIE }}

RL-ResponseInformationResponseItemIE-RL-Addition-RespFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-ResponseInformationResponseItem-RL-Addition-RespFDDItem CRITICALITY ignore
    ignore TYPE RL-ResponseInformationResponseItem-RL-Addition-RespFDDItem PRESENCE mandatory
  },
  ...
}

RL-ResponseInformationResponseItem-RL-Addition-RespFDDItem ::= SEQUENCE {
  rL-ID RL-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  diversityIndication DiversityIndication-RL-Addition-RespFDD,
  sSDT-SupportIndicator SSdT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { RL-
  InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
  ...
}

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

DiversityIndication-RL-Addition-RespFDD ::= CHOICEENUMERATED {
  combining Combining-RL-Addition-RespFDD,
  non-combining Non-Combining-RL-Addition-RespFDD
}

Combining-RL-Addition-RespFDD ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { { Combining-RL-
  AdditionRspFDD-ExtIEs } } OPTIONAL,
  ...
}

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

Non-Combining-RL-Addition-RespFDD ::= SEQUENCE {
  dCH-InformationResponseList-RL-Add-ResFDD
  DCH-InformationResponseList-RL-Addition-RespFDD,
  iE-Extensions ProtocolExtensionContainer { { Non-Combining-RL-
  AdditionRspFDD-ExtIEs } } OPTIONAL,
  ...
}

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

DCH-InformationResponseList-RL-Addition-RespFDD ::= SEQUENCE (SIZE (1..maxNrOfneofRLs-1)) OF
  ProtocolIE-Container{{DCH-InformationResponseItemIEList-RL-Addition-RespFDD-ItemIE}}

DCH-InformationResponseItemIEList-RL-Addition-RespFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponseItemList-RL-Addition-RespFDDItem CRITICALITY ignore
    TYPE DCH-InformationResponseItemList-RL-Addition-RespFDDItem PRESENCE
    mandatory
  },
  ...
}

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

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

-- *****
--

```

-- RADIO LINK ADDITION RESPONSE TDD

--

-- *****

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

```
RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-Communication-Context-ID CRITICALITY ignore TYPE
  CRNC-Communication-Context-ID PRESENCE mandatory } |
  { ID id-RL-InformationResponse-RL-Addition-RespTDD CRITICALITY ignore
  TYPE RL-InformationResponse-RL-Addition-RespTDD PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE
  CriticalityDiagnostic PRESENCE optional }
},
  ...
}
```

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

```
RL-InformationResponse-RL-Addition-RespTDD ::= SEQUENCE {
  rL-ID RL-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  diversityIndication DiversityIndication-RL-Addition-RespTDD,
  dSCH-InfomationResponseList DSCH-InformationResponseList-RL-AdditionRespTDD
  OPTIONAL,
  uSCH-InfomationResponseList USCH-InformationResponseList-RL-AdditionRespTDD
  OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RL-
  InformationResponse-RL-AdditionRespTDD-ExtIEs } } OPTIONAL,
  ...
}
```

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

```
DiversityIndication-RL-Addition-RespTDD ::= CHOICEENUMERATED {
  combining Combining-RL-Addition-RespTDD,
  non-Combining Non-Combining-RL-Addition-RespTDD
}
```

```
Combining-RL-Addition-RespTDD ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { { Combining-RL-
  AdditionRespTDD-ExtIEs } } OPTIONAL,
  ...
}
```

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

```
Non-Combining-RL-Addition-RespTDD ::= SEQUENCE {
  dCH-InfomationResponseList DCH-InformationResponseList-RL-Addition-RespTDD
  OPTIONAL,
  dSCH-InfomationResponseList DSCH-InformationResponseList-RL-Add-RespTD OPTIONAL,
  uSCH-InfomationResponseList USCH-InformationResponseList-RL-Add-RespTDD OPTIONAL
  iE-Extensions ProtocolExtensionContainer { { Non-Combining-RL-
  AdditionRespTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
Non-Combining-RL-AdditionRespTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DCH-InformationResponseList-RL-Addition-RespTDD ::= SEQUENCE (SIZE (1..maxNrOfneefDCHs)) OF
  ProtocolIE-Container {{DCH-InformationResponse-RL-Add-RespTDDItemIE}}
```

```
DCH-InformationResponse-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
  ID id-DCH-InformationResponse-RL-Add-RespTDDItem CRITICALITY ignore TYPE DCH-
  InformationResponse-RL-Add-RespTDDItem PRESENCE mandatory
}
...
}
```

```
DCH-InformationResponse-RL-Add-RespTDDItem ::= SEQUENCE {
  dCH-ID DCH-ID,
  binding-ID Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions ProtocolExtensionContainer { { DCH-
  InformationResponseList-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
  ...
}
```

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

```
DSCH-InformationResponseList-RL-Addition-RespTDD ::= SEQUENCE (SIZE (1..maxNrOfneofDSCHs)) OF
  ProtocolIE-Container {{DSCH-InformationResponse-RL-Add-RespTDDItemIE}}
```

```
DSCH-InformationResponse-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
  ID id-DSCH-InformationResponse-RL-Add-RespTDDItem CRITICALITY ignore TYPE DSCH-
  InformationResponse-RL-Add-RespTDDItem PRESENCE mandatory
}
...
}
```

```
DSCH-InformationResponse-RL-Add-RespTDDItem ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  binding-ID Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions ProtocolExtensionContainer { { DSCH-
  InformationResponseList-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
DSCH-InformationResponseList-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
USCH-InformationResponseList-RL-Addition-RespTDD ::= SEQUENCE (SIZE (1..maxNrOfneofUSCHs)) OF
  ProtocolIE-Container {{USCH-InformationResponseList-RL-Add-RespTDD-ItemIE}}
```

```
USCH-InformationResponseList-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
  ID id-USCH-InformationResponseList-RL-Add-RespTDDItem CRITICALITY ignore
  TYPE USCH-InformationResponseList-RL-Add-RespTDDItem PRESENCE mandatory
}
...
}
```

```
USCH-InformationResponseList-RL-Add-RespTDDItem ::= SEQUENCE {
  uSCH-ID USCH-ID,
  binding-ID Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions ProtocolExtensionContainer { { USCH-
  InformationResponseList-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
  ...
}
```

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

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

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

```

}

RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY
  ignore TYPE CRNC-CommunicationContextID PRESENCE
  mandatory } |
  { ID id-Unsuccessful-RL-InformationResponseList-RL-Addition-FailureFDD CRITICALITY
  ignore TYPE Unsuccessful-RL-InformationResponseList-RL-Addition-
  FailureFDD PRESENCE mandatory } |
  { ID id-Successful-RL-InformationResponseList-RL-Addition-FailureFDD CRITICALITY
  ignore TYPE Successful-RL-InformationResponseList-RL-Addition-
  FailureFDD PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY
  ignore TYPE CriticalityDiagnostics PRESENCE
  optional },
  ...
}

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

Unsuccessful-RL-InformationResponseList-RL-Addition-FailureFDD ::= SEQUENCE (SIZE
(1..maxNrOfRls-1)) OF
  ProtocolIE-Container { { Unsuccessful-RL-InformationResponseItemIEList-RL-Addition-
  FailureFDDItemIE } }

Unsuccessful-RL-InformationResponseItemIEList-RL-Addition-FailureFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-RL-InformationResponseItemList-RL-Addition-FailureFDDItem
  CRITICALITY ignore TYPE Unsuccessful-RL-
  InformationResponseItemList-RL-Addition-FailureFDDItem PRESENCE mandatory
  },
  ...
}

Unsuccessful-RL-InformationResponseItemList-RL-Addition-FailureFDDItem ::= 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-InformationResponseList-RL-Addition-FailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRls-
2)) OF
  ProtocolIE-Container { { Successful-RL-InformationResponseItemIE-RL-Addition-FailureFDD-ItemIE } }

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

Successful-RL-InformationResponseItem-RL-Addition-FailureFDDItem ::= SEQUENCE {
  rL-ID RL-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  diversityIndication DiversityIndication-RL-Addition-FailureFDD,
  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-Addition-FailureFDD ::= CHOICEENUMERATED {
  combining Combining-RL-Addition-FailureFDD,

```

```

nonCombiningOrIENotPrsent-non-combining NonCombiningOrIENotPrsent-RL-
AdditionFailureFDDNon-Combining-RL-Add-FailFDD
}

Combining-RL-Addition-FailureFDD ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { { Combining-RL-
AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

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

NonCombiningOrIENotPrsent-RL-AdditionFailureFDDNon-Combining-RL-Add-FailFDD ::= SEQUENCE {
  dCH-InformationResponseList DCH-InformationResponseList-RL-
Addition-FailureFDD,
  iE-Extensions ProtocolExtensionContainer { {
NonCombiningOrIENotPrsent-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

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

DCH-InformationResponseList-RL-Addition-FailureFDD ::= SEQUENCE (SIZE (1..maxNrOfneofDCHs)) OF
ProtocolIE-Container { {DCH-InformationResponse-RL-Add-FailFDDItemIE } }

DCH-InformationResponse-RL-Add-FailFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id DCH-InformationResponse-RL-Add-FailFDDItem CRITICALITY ignore TYPE DCH-
InformationResponse-RL-Add-FailFDDItem PRESENCE mandatory },
  ...
}

DCH-InformationResponse-RL-Add-FailFDDItem ::= 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 {
  protocoIEs protocolIEs ProtocolIE-Container Container
  {{RadioLinkAdditionFailureTDD-IEs}},
  protocoIEExtensions protocolExtensions ProtocolExtensionContainer
  {{RadioLinkAdditionFailureTDD-Extensions}} OPTIONAL,
  ...
}

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

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

```

```
...
}
```

```
Unsuccessful-RL-InformationResponse-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 _____ protocolIEs _____ ProtocolIE-Container _____ Container
    {{RadioLinkReconfigurationPrepareFDD-IEs}},
    protocolExtensions _____ protocolExtensions _____ ProtocolExtensionContainer _____
    {{RadioLinkReconfigurationPrepareFDD-Extensions}} _____ } _____ OPTIONAL,
    ...
}
```

```
RadioLinkReconfigurationPrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID _____ id-NodeB-CommunicationContextID _____ CRITICALITY _____ CRITICALITY _____ ignore
    _____ TYPE _____ NodeB-CommunicationContextID _____ PRESENCE _____ -mandatory } |
    { ID _____ id-UL-DPCH-Information-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    TYPE _____ UL-DPCH-Information-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-DL-DPCH-Information-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    DL-DPCH-Information-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-DCH-ModifyList-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    -DCH-ModifyList-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-DCH-AddList-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    DCH-AddList-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-DCH-DeleteList-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    DCH-DeleteList-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-DSCH-ModifyItem-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    -DSCH-ModifyItem-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-DSCH-AddItem-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    -DSCH-AddItem-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-DSCH-DeleteItem-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore _____ TYPE _____
    -DSCH-DeleteItem-RL-ReconfPrepFDD _____ PRESENCE _____ -optional } |
    { ID _____ id-RadioLink-InformationList-RL-ReconfPrepFDD _____ CRITICALITY _____ -ignore
    TYPE _____ RadioLink-InformationList-RL-ReconfPrepFDD _____ PRESENCE _____ optional _____
    },
    ...
}
```

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

```
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode _____ UL-ScramblingCode _____ OPTIONAL,
    minUL-ChannelisationCodeLength _____ MinUL-ChannelisationCodeLength _____ OPTIONAL,
    maxNrOfUL-DPDCHs _____ MaxNrOfUL-DPDCHs _____ OPTIONAL,
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4
    ul-PunctureLimit _____ UL-PunctureLimit _____ OPTIONAL,
    transportFormatCombinationSet _____ TransportFormatCombinationSet _____ OPTIONAL,
    tFCS _____ TFCS _____ OPTIONAL,
    ul-DPCCH-SlotFormat _____ UL-DPCCH-SlotFormat _____ OPTIONAL,
    sSDT-CellIDentityLength _____ SSDT-CellIDentity-Length _____
    OPTIONAL,
    s-FieldLength _____ S-FieldLength _____ OPTIONAL,
    -- The following information element is needed if there is a need to add Ies with specific
    criticality-
    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 {

transportFormatCombinationSet TransportFormatCombinationSet OPTIONAL,
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,
DTX InsertionPoint DTX InsertionPoint 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
ProtocolIE-Container { { DCH-ModifyItemIE-RL-ReconfPrepFDDItemIE } }

DCH-ModifyItemIE-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {

{ ID -id-DCH-ModifyItem-RL-ReconfPrepFDDItem CRITICALITY -ignore
TYPE -DCH-ModifyItem-RL-ReconfPrepFDDItem PRESENCE -mandatoryoptional },
...

DCH-ModifyItem-RL-ReconfPrepFDD_Item ::= SEQUENCE {

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

...
}

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

...
}

DCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container { { DCH-AddItemIE-RL-ReconfPrepFDDItemIE } }

DCH-AddItemIE-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {

{ ID -id-DCH-AddItem-RL-ReconfPrepFDDItem CRITICALITY -ignore TYPE
DCH-AddItem-RL-ReconfPrepFDDItem PRESENCE -mandatoryoptional },
...

DCH-AddItem-RL-ReconfPrepFDDItem ::= SEQUENCE {

dCH-ID DCH-ID,
dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
rLC-Mode RLC-Mode,
ul-TransportFormatSet TransportFormatSet,
dl-TransportFormatSet TransportFormatSet,
frameHandlingPriority FrameHandlingPriority,
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode UL-FP-Mode,
toAWS ToAWS,
toAWE ToAWE,
iE-Extensions ProtocolExtensionContainer { { DCH-AddItem-RL-
ReconfPrepFDD-ExtIEs } } OPTIONAL,

...
}

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

...
}

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfneofDCHs)) OF
ProtocolIE-Container {{_DCH-DeleteItemIE-RL-ReconfPrepFDDItemIE}}

DCH-DeleteItemIE-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID -id-DCH-DeleteItem-RL-ReconfPrepFDDItem CRITICALITY -ignore TYPE
DCH-DeleteItem-RL-ReconfPrepFDDItem PRESENCE -mandatoryoptional },
...
}

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

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

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

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

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

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

RadioLink-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfneofRLs)) OF
ProtocolIE-Container {{_RadioLink-InformationItemIE-RL-ReconfPrepFDDItemIE}}

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

RadioLink-InformationItem-RL-ReconfPrepFDDItem ::= SEQUENCE {
rL-ID RL-ID,
dl-CodeInformationList-RL-ReconfPrepFDD DL-CodeInformationList-RL-
ReconfPrepFDD OPTIONAL,
maxDL-Power DL-Power
OPTIONAL,


```

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

```

```

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

```

```

DL-CodeInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF
ProtocolIE-Container {{DL-CodeInformation-RL-ReconfPrepFDDItemIE}}

```

```

DL-CodeInformation-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DL-CodeInformation-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE DL-CodeInformation-RL-
ReconfPrepFDDItem PRESENCE optional },
...
}

```

```

DL-CodeInformation-RL-ReconfPrepFDDItem ::= SEQUENCE {
dl-ssscramblingCode          DL-ScramblingCode
OPTIONAL,
fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber
OPTIONAL,
iE-Extensions                ProtocolExtensionContainer { { DL-
CodeInformationList-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}

```

```

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

```

```

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

```

```

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

```

```

RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE
NodeB-CommunicationContextID PRESENCE mandatory } |
{ ID id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD CRITICALITY ignore TYPE
UL-CCTrCH-InformationList-RL-ReconfPrepTDD PRESENCE optional }
} |
{ ID id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD CRITICALITY ignore
TYPE DL-CCTrCH-InformationList-RL-ReconfPrepTDD PRESENCE optional }
} |
{ ID id-DCH-ModifyList-RL-ReconfPrepTDD CRITICALITY ignore TYPE
DCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
{ ID id-DCH-AddList-RL-ReconfPrepTDD CRITICALITY ignore
TYPE DCH-AddList-RL-ReconfPrepTDD PRESENCE optional } |
{ ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY ignore
TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional }
} |
{ ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY ignore TYPE
DSCH-Information-ModifyList-RL-ReconfPrepTDD PRESENCE optional }
} |
{ ID id-DSCH-information-AddList-RL-ReconfPrepTDD CRITICALITY ignore TYPE
DSCH-Information-AddList-RL-ReconfPrepTDD PRESENCE optional }
} |
{ ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY ignore TYPE
DSCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional }
} |
}

```

```

    { ID_ id-USCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY ignore TYPE
      USCH-Information-ModifyList-RL-ReconfPrepTDD PRESENCE optional
    } |
    { ID_ id-USCH-information-AddList-RL-ReconfPrepTDD CRITICALITY ignore
      TYPE -USCH-Information-AddList-RL-ReconfPrepTDD PRESENCE optional
    } |
    { ID_ id-USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY ignore TYPE
      USCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional
    } |
    { ID_ id-RadioLink-Information-RL-ReconfPrepTDD CRITICALITY ignore
      TYPE RadioLink-Information-RL-ReconfPrepTDD PRESENCE optional
    }
  },
  ...
}

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

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

UL-CCTrCH-InformationItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID_ id-UL-CCTrCH-InformationItem-RL-ReconfPrepTDDItem CRITICALITY ignore
    TYPE UL-CCTrCH-InformationItem-RL-ReconfPrepTDDItem PRESENCE mandatory },
  ...
}

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

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

UL-DPCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF
  ProtocolIE-Container { { UL-DPCH-Information-RL-ReconfPrepTDDItemIE } }

UL-DPCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID_ id-UL-DPCH-Information-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE UL-DPCH-
  Information-RL-ReconfPrepTDDItem PRESENCE mandatory
  },
  ...
}

UL-DPCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dpch-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
  burstType BurstType OPTIONAL,
  midambleShift MidambleShift OPTIONAL,
  timeSlot TimeSlot OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-
  InformationList-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ...
}

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

```

}

DL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF
ProtocolIE-Container {{ DL-CCTrCH-InformationItemRL-ReconfPrepTDDItemIE }}

DL-CCTrCH-InformationItemRL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
 { ID id-DL-CCTrCH-InformationItemRL-ReconfPrepTDDItem CRITICALITY ignore
 TYPE DL-CCTrCH-InformationItemRL-ReconfPrepTDDItem PRESENCE mandatory
 },
 ...
 }

DL-CCTrCH-InformationItemRL-ReconfPrepTDDItem ::= SEQUENCE {
 cCTrCH-ID CCTrCH-ID,
 transportFormatCombinationSet TransportFormatCombinationSet
 OPTIONAL,
 tFCS TFCS OPTIONAL,
 tFCI-Coding TFCI-Coding
 OPTIONAL,
 puncturingLimit PuncturingLimit
 OPTIONAL,
 dl-DPCH-InformationList-RL-ReconfPrepTDD DL-DPCH-InformationList-RL-
 ReconfPrepTDD OPTIONAL,
 iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-
 InformationItemRL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
 ...
 }

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

DL-DPCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF
ProtocolIE-Container {{ DL-DPCH-InformationRL-ReconfPrepTDDItemIE }}

DL-DPCH-InformationRL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
 { ID id-DL-DPCH-InformationRL-ReconfPrepTDDItem CRITICALITY ignore TYPE DL-
 DPCH-InformationRL-ReconfPrepTDDItem PRESENCE mandatory
 },
 ...
 }

DL-DPCH-InformationRL-ReconfPrepTDDItem ::= SEQUENCE {
 dpch-ID DPCH-ID,
 tDPd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
 burstType BurstType OPTIONAL,
 midambleShift MidambleShift OPTIONAL,
 timeSlot TimeSlot OPTIONAL,
 tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
 repetitionPeriod RepetitionPeriod OPTIONAL,
 repetitionLength RepetitionLength OPTIONAL,
 tFCI-Presence TFCI-Presence OPTIONAL,
 iE-Extensions ProtocolExtensionContainer { { DL-DPCH-
 InformationList-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
 ...
 }

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

DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container {{ DCH-ModifyItemRL-ReconfPrepTDDItemIE }}

DCH-ModifyItemRL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
 { ID id-DCH-ModifyItemRL-ReconfPrepTDDItem CRITICALITY ignore TYPE
 DCH-ModifyItemRL-ReconfPrepTDDItem PRESENCE mandatory optional },
 ...
 }

DCH-ModifyItemRL-ReconfPrepTDDItem ::= SEQUENCE {
 dch-ID DCH-ID,
 ul-cCTrCH-ID CCTrCH-ID OPTIONAL,
 dl-cCTrCH-ID CCTrCH-ID OPTIONAL,
 ul-TransportFormatSet TransportFormatSet OPTIONAL,
 dl-TransportFormatSet TransportFormatSet OPTIONAL,
 frameHandlingPriority FrameHandlingPriority OPTIONAL,
 ul-FP-Mode UL-FP-Mode OPTIONAL,
 ...
 }

```

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

```

```

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

```

```

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfneofDCHs)) OF
ProtocolIE-Container {{ DCH-AddItemIE-RL-ReconfPrepTDDItemIE }}

```

```

DCH-AddItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DCH-AddItem-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE
DCH-AddItem-RL-ReconfPrepTDDItem PRESENCE mandatoryoptional },
...
}

```

```

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

```

```

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

```

```

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfneofDCHs)) OF
ProtocolIE-Container {{ DCH-DeleteItemIE-RL-ReconfPrepTDDItemIE }}

```

```

DCH-DeleteItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DCH-DeleteItem-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE
DCH-DeleteItem-RL-ReconfPrepTDDItem PRESENCE mandatoryoptional },
...
}

```

```

DCH-DeleteItem-RL-ReconfPrepTDDItem ::= 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..maxNrOfneofDSCHs)) OF
ProtocolIE-Container {{ DSCH-Information-ModifyItemIE-RL-ReconfPrepTDDItemIE }}

```

```

DSCH-Information-ModifyItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DSCH-Information-ModifyItem-RL-ReconfPrepTDDItem CRITICALITY ignore
TYPE DSCH-Information-ModifyItem-RL-ReconfPrepTDDItem PRESENCE
mandatoryoptional },
...
}

```

```

DSCH-Information-ModifyItem-RL-ReconfPrepTDDItem ::= SEQUENCE {
dSCH-ID DSCH-ID,
cCCTrCH-ID CCTrCH-ID OPTIONAL,
transportFormatSet TransportFormatSet OPTIONAL,

```

```

cTrCH-ID CTrCH-ID OPTIONAL,
frameHandlingPriority FrameHandlingPriority OPTIONAL,
toAWE ToAWE 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..maxNrOfneofDSCHs)) OF
ProtocolIE-Container { { DSCH-Information-AddItemIE-RL-ReconfPrepTDDItemIE } }

```

```

DSCH-Information-AddItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DSCH-Information-AddItem-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE
DSCH-Information-AddItem-RL-ReconfPrepTDDItem PRESENCE mandatory
},
...
}

```

```

DSCH-Information-AddItem-RL-ReconfPrepTDDItem ::= SEQUENCE {
dSCH-ID DSCH-ID,
cTrCH-ID CTrCH-ID,
transportFormatSet TransportFormatSet,
frameHandlingPriority FrameHandlingPriority OPTIONAL,
toAWE ToAWE,
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..maxNrOfneofDSCHs)) OF
ProtocolIE-Container { { DSCH-Information-DeleteItemIE-RL-ReconfPrepTDDItemIE } }

```

```

DSCH-Information-DeleteItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DSCH-Information-DeleteItem-RL-ReconfPrepTDDItem CRITICALITY ignore
TYPE DSCH-Information-DeleteItem-RL-ReconfPrepTDDItem PRESENCE
mandatoryoptional
},
...
}

```

```

DSCH-Information-DeleteItem-RL-ReconfPrepTDDItem ::= 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..maxNrOfneofUSCHs)) OF
ProtocolIE-Container { { USCH-Information-ModifyItemIE-RL-ReconfPrepTDDItemIE } }

```

```

USCH-Information-ModifyItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-USCH-Information-ModifyItem-RL-ReconfPrepTDDItem CRITICALITY ignore
TYPE USCH-Information-ModifyItem-RL-ReconfPrepTDDItem PRESENCE
mandatoryoptional
},
...
}

```

```

USCH-Information-ModifyItem-RL-ReconfPrepTDDItem ::= SEQUENCE {
dSCH-ID DSCH-ID,
transportFormatSet TransportFormatSet OPTIONAL,
cTrCH-ID CTrCH-ID OPTIONAL,

```

```
    iE-Extensions ProtocolExtensionContainer { { USCH-Information-  
ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,  
    ...  
}
```

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

```
USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfNrofUSCHs)) OF  
ProtocolIE-Container { { USCH-Information-AddItemIE-RL-ReconfPrepTDDItemIE } }
```

```
USCH-Information-AddItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {  
    { ID -id-USCH-Information-AddItem-RL-ReconfPrepTDDItem CRITICALITY -ignore  
      TYPE USCH-Information-AddItem-RL-ReconfPrepTDDItem PRESENCE -mandatoryoptional  
    },  
    ...  
}
```

```
USCH-Information-AddItem-RL-ReconfPrepTDDItem ::= SEQUENCE {  
    uSCH-ID USCH-ID,  
    cTrCH-ID CTrCH-ID,  
    transportFormatSet TransportFormatSet,  
    iE-Extensions ProtocolExtensionContainer { { USCH-Information-  
AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,  
    ...  
}
```

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

```
USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfNrofUSCHs)) OF  
ProtocolIE-Container { { USCH-Information-DeleteItemIE-RL-ReconfPrepTDDItemIE } }
```

```
USCH-Information-DeleteItemIE-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {  
    { ID -id-USCH-Information-DeleteItem-RL-ReconfPrepTDDItem CRITICALITY -ignore  
      TYPE USCH-Information-DeleteItem-RL-ReconfPrepTDDItem PRESENCE  
    },  
    ...  
}
```

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

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

```
RadioLink-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 protocolIEs ProtocolIE-Container Container  
    { { RadioLinkReconfigurationReady-IEs } },
```

```

protocolExtensions protocolExtensions ProtocolExtensionContainer
ProtocolExtensionContainer ::= SEQUENCE (SIZE (1..maxNrOfRels)) OF
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..maxNrOfRels)) OF
ProtocolIE-Container { { RL-InformationResponseItemIE-RL-ReconfReadyItemIE } }

RL-InformationResponseItemIE-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItemList-RL-ReconfReadyItem CRITICALITY ignore
PRESENCE mandatory
TYPE RL-InformationResponseItemList-RL-ReconfReadyItem
},
  ...
}

RL-InformationResponseItemList-RL-ReconfReadyItem ::= SEQUENCE {
  rL-ID RL-ID,
dCHsToBeAddeddCH-AddList-RL-ReconfReady DCH-AddList-RL-ReconfReady
OPTIONAL,
dCH-ModifyList-RL-ReconfReadyToBeModified DCH-ModifyList-RL-ReconfReady
OPTIONAL,
dSCH-SetupList-RL-ReconfReadyItem DSCH-SetupListitem-RL-ReconfReady
OPTIONAL,
dSCH-ModifyList-RL-ReconfReadyItem DSCH-ModifyListitem-RL-ReconfReady
OPTIONAL,
uSCH-SetupList-RL-ReconfReadyItem USCH-SetupListitem-RL-ReconfReady
OPTIONAL,
uSCH-ModifyList-RL-ReconfReadyItem USCH-ModifyListitem-RL-ReconfReady
OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { RL-
InformationResponseItem-RL-ReconfReady-ExtIEs } } OPTIONAL,
  ...
}

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

DCH-AddList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container { { DCH-Add-RL-ReconfReadyItemIE } }

DCH-Add-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Add-RL-ReconfReadyItem CRITICALITY ignore TYPE DCH-Add-RL-ReconfReadyItem
PRESENCE mandatory },
  ...
}

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

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

```

DCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container {{DCH-Modify-RL-ReconfReadyItemIE}}

~~DCH-Modify-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DCH-Modify-RL-ReconfReadyItem CRITICALITY ignore TYPE DCH-Modify-RL-
ReconfReadyItem PRESENCE mandatory },
...
}~~

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

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

DSCH-SetupList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF
ProtocolIE-Container {{DSCH-Setup-RL-ReconfReadyItemIE}}

~~DSCH-Setup-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DSCH-Setup-RL-ReconfReadyItem CRITICALITY ignore TYPE DSCH-Setup-RL-
ReconfReadyItem PRESENCE mandatory },
...
}~~

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

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

DSCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF
ProtocolIE-Container {{DSCH-Modify-RL-ReconfReadyItemIE}}

~~DSCH-Modify-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DSCH-Modify-RL-ReconfReadyItem CRITICALITY ignore TYPE DSCH-Modify-RL-
ReconfReadyItem PRESENCE mandatory },
...
}~~

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

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

USCH-SetupList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF
ProtocolIE-Container {{USCH-Setup-RL-ReconfReadyItemIE}}

~~USCH-Setup-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-USCH-Setup-RL-ReconfReadyItem CRITICALITY ignore TYPE USCH-Setup-RL-
ReconfReadyItem PRESENCE mandatory },
...
}~~

~~USCH-Setup-RL-ReconfReadyItem ::= SEQUENCE {
uSCH-ID USCH-ID,~~


```

bindingID BindingID,
transportLayerAddress TransportLayerAddress,
iE-Extensions ProtocolExtensionContainer { { USCH-SetupList-
RL-ReconfReady-ExtIEs } } OPTIONAL,
...
}

```

```

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

```

```

USCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfNrofUSCHs)) OF
ProtocolIE-Container {{USCH-Modify-RL-ReconfReadyItemIE}}

```

```

USCH-Modify-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
ID id-USCH-Modify-RL-ReconfReadyItem CRITICALITY ignore TYPE USCH-Modify-RL-
ReconfReadyItem PRESENCE mandatory },
...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

RL-ReconfigurationFailureItem-RL-ReconfFailureItem ::= 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          protocolIEs          ProtocolIE-Container          Container
    {{RadioLinkReconfigurationCommit-IEs}},
    protocolExtensions  protocolExtensions  ProtocolExtensionContainer
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
    { ID          -PRESENCE          -mandatory          }},
    ...
}

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

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

RadioLinkReconfigurationCancel ::= SEQUENCE {
    protocolIEs          protocolIEs          ProtocolIE-Container          Container
    {{RadioLinkReconfigurationCancel-IEs}},
    protocolExtensions  protocolExtensions  ProtocolExtensionContainer
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          protocolIEs          ProtocolIE-Container          Container
    {{RadioLinkReconfigurationRequestFDD-IEs}},

```

```

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

```

```

RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY -ignore TYPE
NodeB-CommunicationContextID PRESENCE -mandatory } |
  { ID id-UL-DPCH-InformationItem-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
-UL-DPCH-InformationItem-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-DL-DPCH-InformationItem-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE DL-DPCH-InformationItem-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-DCH-ModifyList-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE DCH-ModifyList-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-DCH-AddList-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE DCH-AddList-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-DCH-DeleteList-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE DCH-DeleteList-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-DSCH-ModifyItem-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE DSCH-ModifyItem-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-DSCH-AddItem-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE DSCH-AddItem-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-DSCH-DeleteItem-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE DSCH-DeleteItem-RL-ReconfRqstFDD PRESENCE -optional } |
  { ID id-RL-InformationList-RL-ReconfRqstFDD CRITICALITY -ignore TYPE
TYPE RL-InformationList-RL-ReconfRqstFDD PRESENCE -optional },
  ...
}

```

```

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

```

```

UL-DPCH-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE {
  tFCS TFCs OPTIONAL
  ul-TransportFormatCombinationSet TransportFormatCombinationSet
  OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-
Information-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

```

```

DL-DPCH-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE {
  dl-TransportFormatCombinationSet TransportFormatCombinationSet
  OPTIONAL,
  tFCS TFCs OPTIONAL
  tFCI-SignallingMode TFCI-SignallingMode
  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
ProtocolIE-Container { { DCH-ModifyItem-RL-ReconfRqstFDDItemIE } }

```

```

DCH-ModifyItem-RL-ReconfRqstFDDItem NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-ModifyItem-RL-ReconfRqstFDDItem CRITICALITY -ignore TYPE
  -DCH-ModifyItem-RL-ReconfRqstFDDItem PRESENCE -mandatoryoptional },
  ...
}

```

```

DCH-ModifyItem-RL-ReconfRqstFDDItem ::= SEQUENCE {
  dCH-ID DCH-ID,
  ul-TransportFormatSet TransportFormatSet OPTIONAL,
  dl-TransportFormatSet TransportFormatSet OPTIONAL,
}

```

```

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

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

DCH-AddList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container { { DCH-AddItemIE-RL-ReconfRqstFDDItemIE } }

DCH-AddItemIE-RL-ReconfRqstFDDItemIE  NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddItem-RL-ReconfRqstFDDItem CRITICALITY ignore TYPE
DCH-AddItem-RL-ReconfRqstFDDItem PRESENCE mandatoryoptional },
    ...
}

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

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

DCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container { { DCH-DeleteItemIE-RL-ReconfRqstFDDItemIE } }

DCH-DeleteItemIE-RL-ReconfRqstFDDItemIE  NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-DeleteItem-RL-ReconfRqstFDDItem CRITICALITY ignore TYPE
DCH-DeleteItem-RL-ReconfRqstFDDItem PRESENCE mandatoryoptional },
    ...
}

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

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

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

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

```

```

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

```

```

DSCH-Add-RL-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DSCH-DeleteItem-RL-ReconfRgstFDD ::= SEQUENCE {
    rL-ID                          RL-ID,
    iE-Extensions                 ProtocolExtensionContainer { { DSCH-Delete-RL-
ReconfRgstFDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DSCH-Delete-RL-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RL-InformationList-RL-ReconfRgstPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRls)) OF
ProtocolIE-Container { { RL-InformationItemIE-RL-ReconfRgstPrepFDDItemIE } }

```

```

RL-InformationItemIE-RL-ReconfRgstPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-ReconfRgstPrepFDDItem CRITICALITY ignore
TYPE RL-InformationItem-RL-ReconfRgstPrepFDDItem PRESENCE mandatoryoptional
},
    ...
}

```

```

RL-InformationItem-RL-ReconfRgstPrepFDDItem ::= SEQUENCE {
    rL-ID                          RL-ID,
    maxDL-Power                    DL-Power          OPTIONAL,
    minDL-Power                    DL-Power          OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { RL-InformationItem-
RL-ReconfRgstFDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

```

```

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

```

```

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

```

```

RadioLinkReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
    { ID-ID id-NodeB-CommunicationContextID CRITICALITY CRITICALITY
ignore TYPE TYPE NodeB-CommunicationContextID PRESENCE
mandatory } |
    { ID-ID id-UL-CCTrCH-InformationList-RL-ReconfRgstPrepTDD CRITICALITY CRITICALITY
ignore TYPE UL-CCTrCH-InformationList-RL-ReconfRgstPrepTDD
PRESENCE optional
} |
    { ID-ID id-DL-CCTrCH-InformationList-RL-ReconfRgstPrepTDD CRITICALITY CRITICALITY
ignore TYPE DL-CCTrCH-InformationList-RL-ReconfRgstPrepTDD
PRESENCE optional
} |
}

```

```

    { ID ID id-DCH-ModifyList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE TYPE DCH-ModifyList-RL-ReconfRqsteqTDD PRESENCE
    optional } |
    { ID ID id-DCH-AddList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE DCH-AddList-RL-ReconfRqsteqTDD PRESENCE optional }
    |
    { ID ID id-DCH-DeleteList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE DCH-DeleteList-RL-ReconfRqsteqTDD PRESENCE PRESENCE
    optional } |
    { ID ID id-DSCH-Information-ModifyList-RL-ReconfRqsteqTDD CRITICALITY ignore
      TYPE DSCH-Information-ModifyList-RL-ReconfRqsteqTDD PRESENCE optional } |
    { ID ID id-DSCH-Information-AddList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE TYPE DSCH-Information-AddList-RL-ReconfRqsteqTDD PRESENCE PRESENCE
    optional } |
    { ID ID id-DSCH-Information-DeleteList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE TYPE DSCH-Information-DeleteList-RL-ReconfRqsteqTDD PRESENCE
    optional } |
    { ID ID id-USCH-Information-ModifyList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE TYPE USCH-Information-ModifyList-RL-ReconfRqsteqTDD PRESENCE
    optional } |
    { ID ID id-USCH-Information-AddList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE USCH-Information-AddList-RL-ReconfRqsteqTDD PRESENCE PRESENCE
    optional } |
    { ID ID id-USCH-Information-DeleteList-RL-ReconfRqsteqTDD CRITICALITY CRITICALITY
      ignore TYPE TYPE USCH-Information-DeleteList-RL-ReconfRqsteqTDD PRESENCE
    optional } |
    { ID id-RL-InformationList-RL-ReconfRqstTDD CRITICALITY ignore
      TYPE RL-InformationList-RL-ReconfRqstTDD PRESENCE optional },
    ...
  }

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

UL-CCTrCH-InformationList-RL-ReconfRqsteqTDD ::= SEQUENCE (SIZE (1..maxNrOfneofCCTrCHs)) OF
  ProtocolIE-Container { { UL-CCTrCH-InformationItemIE-RL-ReconfRqsteqTDDItemIE } }

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

UL-CCTrCH-InformationItem-RL-ReconfRqsteqTDDItem ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  transportFormatCombinationSet TransportFormatCombinationSet,
  tFCS TFCS,
  puncturingLimit PuncturingLimit,
  iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-
  InformationItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

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

DL-CCTrCH-InformationList-RL-ReconfRqsteqTDD ::= SEQUENCE (SIZE (1..maxNrOfneofCCTrCHs)) OF
  ProtocolIE-Container { { DL-CCTrCH-InformationItemIE-RL-ReconfRqsteqTDDItemIE } }

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

DL-CCTrCH-InformationItem-RL-ReconfRqsteqTDDItem ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  transportFormatCombinationSet TransportFormatCombinationSet,
  tFCS TFCS,
  puncturingLimit PuncturingLimit,

```

```

        iE-Extensions                               ProtocolExtensionContainer { { DL-CCTrCH-
InformationItem-RL-ReconfRqstTDD-ExtIEs } }        OPTIONAL,
        ...
    }

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

DCH-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container { { DCH-ModifyItemIE-RL-ReconfRqstTDDItemIE } }

DCH-ModifyItemIE-RL-ReconfRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-ModifyItem-RL-ReconfRqstTDDItem     CRITICALITY ignore TYPE
DCH-ModifyItem-RL-ReconfRqstTDDItem     PRESENCE mandatoryoptional },
    ...
}

DCH-ModifyItem-RL-ReconfRqstTDDItem ::= SEQUENCE {
    dCH-ID                               DCH-ID,
    ul-CCTrCH-ID                         CCTrCH-ID OPTIONAL,
    dl-CCTrCH-ID                         CCTrCH-ID OPTIONAL,
    ul-TransportFormatSet                TransportFormatSet OPTIONAL,
    dl-TransportFormatSet                TransportFormatSet OPTIONAL,
    frameHandlingPriority                 FrameHandlingPriority OPTIONAL,
    ul-FP-Mode                           UL-FP-Mode OPTIONAL,
    toAWS                                 ToAWS OPTIONAL,
    toAWE                                 ToAWE OPTIONAL,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-ModifyItem-
ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

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

DCH-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container { { DCH-AddItemIE-RL-ReconfRqstTDDItemIE } }

DCH-AddItemIE-RL-ReconfRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddItem-RL-ReconfRqstTDDItem     CRITICALITY ignore TYPE
DCH-AddItem-RL-ReconfRqstTDDItem     PRESENCE mandatoryoptional },
    ...
}

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

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

DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF
ProtocolIE-Container { { DCH-DeleteItemIE-RL-ReconfRqstTDDItemIE } }

DCH-DeleteItemIE-RL-ReconfRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-DeleteItem-RL-ReconfRqstTDDItem     CRITICALITY ignore TYPE
DCH-DeleteItem-RL-ReconfRqstTDDItem     PRESENCE mandatoryoptional },
    ...
}

DCH-DeleteItem-RL-ReconfRqstTDDItem ::= SEQUENCE {

```

```

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

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

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

DSCH-Information-ModifyItemIE-RL-ReconfRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID-ID id-DSCH-Information-ModifyItem-RL-ReconfRqstTDDItem _____ CRITICALITY-CRITICALITY
ignore _____ TYPE _____ DSCH-Information-ModifyItem-RL-ReconfRqstTDDItem _____ PRESENCE
PRESENCE mandatoryoptional _____ },
    ...
}

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

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

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

DSCH-Information-AddItemIE-RL-ReconfRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID-ID id-DSCH-Information-AddItem-RL-ReconfRqstTDDItem _____ CRITICALITY _____ ignore
TYPE _____ DSCH-Information-AddItem-RL-ReconfRqstTDDItem _____ PRESENCE-PRESENCE
mandatoryoptional _____ },
    ...
}

DSCH-Information-AddItem-RL-ReconfRqstTDDItem ::= SEQUENCE {
    dSCH-ID _____ DSCH-ID,
    cTrCH-ID _____ CTrCH-ID,
    transportFormatSet _____ TransportFormatSet,
    frameHandlingPriority _____ FrameHandlingPriority _____ OPTIONAL,
    toAWE _____ ToAWE,
    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
ProtocolIE-Container { {DSCH-Information-DeleteItemIE-RL-ReconfRqstTDDItemIE-}}

DSCH-Information-DeleteItemIE-RL-ReconfRqstTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID-ID id-DSCH-Information-DeleteItem-RL-ReconfRqstTDDItem _____ CRITICALITY-CRITICALITY
ignore _____ TYPE-TYPE _____ DSCH-Information-DeleteItem-RL-ReconfRqstTDDItem _____ PRESENCE
PRESENCE mandatoryoptional _____ },
    ...
}

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

```



```
    ...  
}
```

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

```
USCH-Information-ModifyList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF  
ProtocolIE-Container {{USCH-Information-ModifyItemIE-RL-ReconfRgstTDDItemIE}}
```

```
USCH-Information-ModifyItemIE-RL-ReconfRgstTDDItemIE NBAP-PROTOCOL-IES ::= {  
    { ID-ID id-USCH-Information-ModifyItem-RL-ReconfRgstTDDItem CRITICALITY-CRITICALITY  
      ignore TYPE-TYPE USCH-Information-ModifyItem-RL-ReconfRgstTDDItem PRESENCE  
      mandatoryoptional },  
    ...  
}
```

```
USCH-Information-ModifyItem-RL-ReconfRgstTDDItem ::= SEQUENCE {  
    uSCH-ID USCH-ID,  
    cTrCH-ID CTrCH-ID OPTIONAL,  
    transportFormatSet TransportFormatSet OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { { USCH-Information-  
ModifyItem-RL-ReconfRgstTDD-ExtIEs } } OPTIONAL,  
    ...  
}
```

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

```
USCH-Information-AddList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF  
ProtocolIE-Container {{USCH-Information-AddItemIE-RL-ReconfRgstTDDItemIE}}
```

```
USCH-Information-AddItemIE-RL-ReconfRgstTDDItemIE NBAP-PROTOCOL-IES ::= {  
    { ID-id-USCH-Information-AddItem-RL-ReconfRgstTDDItem CRITICALITY-ignore  
      TYPE-USCH-Information-AddItem-RL-ReconfRgstTDDItem PRESENCE  
      mandatoryoptional },  
    ...  
}
```

```
USCH-Information-AddItem-RL-ReconfRgstTDDItem ::= SEQUENCE {  
    uSCH-ID USCH-ID,  
    cTrCH-ID CTrCH-ID,  
    transportFormatSet TransportFormatSet,  
    iE-Extensions ProtocolExtensionContainer { { USCH-Information-AddItem-  
RL-ReconfRgstTDD-ExtIEs } } OPTIONAL,  
    ...  
}
```

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

```
USCH-Information-DeleteList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF  
ProtocolIE-Container {{USCH-Information-DeleteItemIE-RL-ReconfRgstTDDItemIE}}
```

```
USCH-Information-DeleteItemIE-RL-ReconfRgstTDDItemIE NBAP-PROTOCOL-IES ::= {  
    { ID-id-USCH-Information-DeleteItem-RL-ReconfRgstTDDItem CRITICALITY-ignore  
      TYPE USCH-Information-DeleteItem-RL-ReconfRgstTDDItem PRESENCE-PRESENCE  
      mandatory },  
    ...  
}
```

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

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

```
RL-InformationList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{  
RL-Information-DeleteItemIE-RL-ReconfRgstTDD}}
```

```
RL-Information-DeleteItemIE-RL-ReconfRgstTDD NBAP-PROTOCOL-IES ::= {
```

```

    { ID id-RL-InformationItem-RL-ReconfRqstTDD CRITICALITY ignore TYPE
    RL-InformationItem-RL-ReconfRqstTDD PRESENCE mandatory},
    ...
}

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

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

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

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

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

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

RL-InformationResponseList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxNrOfneofRLs)) OF
ProtocolIE-Container {{RL-InformationResponseItemIE-RL-ReconfRespIE}}

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

RL-InformationResponseItem-RL-ReconfResp ::= SEQUENCE {
    rL-ID RL-ID,
    dCH-AddList-RL-ReconfRspdCHsToBeAdded DCH-AddList-RL-ReconfResp
    OPTIONAL,
    dCH-ModifyList-RL-ReconfRspdCHsToBeModified DCH-ModifyList-RL-ReconfResp
    OPTIONAL,
    dSCH-SetupList-RL-ReconfRspdSCHsToBeSetup DSCH-SetupList-RL-ReconfResp
    OPTIONAL,
    dSCH-ModifyList-RL-ReconfRspdSCHsToBeModifie DSCH-ModifyList-RL-ReconfResp
    OPTIONAL,
    uSCH-SetupList-RL-ReconfRspuSCHsToBeSetup USCH-SetupList-RL-ReconfResp
    OPTIONAL,
    uSCH-ModifyList-RL-ReconfRspuSCHsToBeModifie USCH-ModifyList-RL-ReconfResp
    OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-
    InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

```

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

```
DCH-AddList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF  
    SEQUENCE {  
        dCH-ID DCH-ID,  
        bindingID BindingID,  
        transportLayerAddress TransportLayerAddress,  
        iE-Extensions ProtocolExtensionContainer { { DCH-AddList-RL-  
ReconfRsp-ExtIEs} } OPTIONAL,  
        ...  
    }
```

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

```
DCH-ModifyList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF  
    ProtocolIE-Container {{DCH-Modify-RL-ReconfRespItemIE}}
```

```
DCH-Modify-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {  
    { ID id-DCH-Modify-RL-ReconfRespItem CRITICALITY ignore TYPE DCH-Modify-RL-  
ReconfRespItem PRESENCE optional },  
    ...  
}
```

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

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

```
DCH-AddList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF  
    ProtocolIE-Container {{DCH-Add-RL-ReconfRespItemIE}}
```

```
DCH-Add-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {  
    { ID id-DCH-Add-RL-ReconfRespItem CRITICALITY ignore TYPE DCH-Add-RL-ReconfRespItem  
PRESENCE optional },  
    ...  
}
```

```
DCH-Add-RL-ReconfRespItem ::= SEQUENCE {  
    dCH-ID DCH-ID,  
    bindingID BindingID,  
    transportLayerAddress TransportLayerAddress  
}
```

```
DSCH-SetupList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF  
    ProtocolIE-Container {{DSCH-Setup-RL-ReconfRespItemIE}}
```

```
DSCH-Setup-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {  
    { ID id-DSCH-Setup-RL-ReconfRespItem CRITICALITY ignore TYPE DSCH-Setup-RL-  
ReconfRespItem PRESENCE optional },  
    ...  
}
```

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

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

```

DSCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxNrOfneofDSCHs)) OF
  ProtocolIE-Container {{DSCH-Modify-RL-ReconfRespItemIE}}

DSCH-Modify-RL-ReconfRespItemIE-NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Modify-RL-ReconfRespItem CRITICALITY ignore TYPE DSCH-Modify-RL-ReconfRespItem
  PRESENCE optional },
  ...
}

DSCH-Modify-RL-ReconfRespItem ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { { DSCH-ModifyList-RL-
ReconfResp-ExtIEs} } OPTIONAL,
  ...
}

DSCH-ModifyList-RL-ReconfResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

USCH-SetupList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF
  SEQUENCE {
    uSCH-ID USCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions ProtocolExtensionContainer { { USCH-SetupList-RL-
ReconfResp-ExtIEs} } OPTIONAL,
    ...
  }

USCH-SetupList-RL-ReconfResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

USCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxNrOfneofUSCHs)) OF
  ProtocolIE-Container {{USCH-Modify-RL-ReconfRespItemIE}}

USCH-Modify-RL-ReconfRespItemIE-NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Modify-RL-ReconfRespItem CRITICALITY ignore TYPE USCH-Modify-RL-
ReconfRespItem PRESENCE optional },
  ...
}

USCH-Modify-RL-ReconfRespItem ::= SEQUENCE {
  uSCH-ID USCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  cTrCH-ID CTrCH-ID,
  transportFormatSet TransportFormatSet,
  iE-Extensions ProtocolExtensionContainer { { USCH-ModifyList-RL-
ReconfResp-ExtIEs} } OPTIONAL,
  ...
}

USCH-ModifyList-RL-ReconfResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

USCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  ProtocolIE-Container {{USCH-Modify-RL-ReconfRespItemIE}}

USCH-Modify-RL-ReconfRespItemIE-NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Modify-RL-ReconfRespItem CRITICALITY ignore TYPE USCH-Modify-RL-
ReconfRespItem PRESENCE optional },
  ...
}

USCH-Modify-RL-ReconfRespItem ::= SEQUENCE {
  uSCH-ID USCH-ID,
  cTrCH-ID CTrCH-ID OPTIONAL,
  transportFormatSet TransportFormatSet OPTIONAL,
}

RadioLinkReconfigurationResponse-Extensions 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 ignore TYPE
TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
  { ID id-RL-informationList-RL-Deletion-RqstExt CRITICALITY CRITICALITY ignore
TYPE TYPE RL-informationList-RL-Deletion-RqstExt PRESENCE mandatory }
,
  ...
}

```

```

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

```

```

RL-informationList-RL-Deletion-RqstExt ::= SEQUENCE (SIZE (1..maxNrOfRls)) OF
ProtocolIE-Container {{RL-informationItemIEList-RL-Deletion-RqstExtItemIE}}

```

```

RL-informationItemIEList-RL-Deletion-RqstExtItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-informationList-RL-Deletion-RqstExtItem CRITICALITY CRITICALITY
ignore TYPE TYPE RL-informationItemIEList-RL-Deletion-RqstExtItem PRESENCE
mandatory },
  ...
}

```

```

RL-informationItemIEList-RL-Deletion-RqstExtItem ::= 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-CriticalityDiagnostic CRITICALITY ignore TYPE
CriticalityDiagnostic PRESENCE optional }
,
  ...
}

```

```

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

```

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

```
DL-PowerControlRequestFDD ::= SEQUENCE {
    protocolIEs ProtocolIE-Container_{DL-
PowerControlRequestFDD-IEs}},
    protocolExtensions ProtocolExtensionContainer_{DL-PowerControlRequestFDD-
Extensions}} OPTIONAL,
    privateExtensions PrivateExtensionContainer_{DLPowerControlRequestFDD-
PrivateExtensions}} OPTIONAL,
    ...
}
```

```
DL-PowerControlRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID CRITICALITY ignore
TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
    { ID id-ProcedureScopeType-DL-PC-Rqst CRITICALITY ignore
TYPE ProcedureScopeType-DL-PC-Rqst PRESENCE mandatory } ,
    ...
}
```

```
DL-PowerControlRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DLPowerControlRequestFDD-PrivateExtensions NBAP-PRIVATE-EXTENSION ::= {
    ...
}
```

```
ProcedureScopeType-DL-PC-Rqst ::= CHOICE {
    all-RL DL-PowerAll-RL,
    individualRL DL-ReferencePowerInformationList-DL-PC-Rqst-IndividualRL
}
```

```
All-RL ::= SEQUENCE {
    dl-ReferencePower DL-Power
}
```

```
IndividualRL ::= SEQUENCE {
    dl-ReferencePowerInformationList-PC DL-
ReferencePowerInformationList-PC
}
```

```
DL-ReferencePowerInformationList-DL-PC-Rqst ::= SEQUENCE (SIZE (1..maxNrOfneofRLs)) OF
    ProtocolIE-Container_{DL-ReferencePowerInformationList-PCItemIE }
```

```
DL-ReferencePowerInformationList-PCItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-ReferencePowerInformationList-PCItem CRITICALITY ignore TYPE DL-
ReferencePowerInformationList-PCItem PRESENCE mandatory
},
    ...
}
```

```
DL-ReferencePowerInformationList-PCItem ::= SEQUENCE {
    rL-ID RL-ID,
    dl-ReferencePower DL-Power,
    iE-Extensions ProtocolExtensionContainer_{DL-
ReferencePowerInformationList-DL-PC-Rqst-ExtIEs }} OPTIONAL,
    ...
}
```

```
DL-ReferencePowerInformationList-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- _____ ignore _____ TYPE-
  NodeB-CommunicationContextID _____ PRESENCE _____ -mandatory } |
  { ID- id-MeasurementID _____ CRITICALITY- _____ ignore _____ TYPE-
  MeasurementID _____ PRESENCE- PRESENCE _____ mandatory } |
  { ID- id-DedicatedMeasurementObjectType-Req _____ CRITICALITY- _____ ignore _____ TYPE
  DedicatedMeasurementObjectType-Req _____ PRESENCE _____ -mandatory } |
  { ID- id-DedicatedMeasurementObjectType-DM-Rqst _____ CRITICALITY- _____ ignore _____ TYPE-
  DedicatedMeasurementObjectType-DM-Rqst _____ PRESENCE _____ -mandatory } |
  { ID- id-DedicatedMeasurementType _____ CRITICALITY _____ ignore _____ TYPE
  DedicatedMeasurementType _____ PRESENCE _____ mandatory } |
  { ID- id-MeasurementCharacteristics _____ CRITICALITY- _____ ignore _____ TYPE-
  MeasurementCharacteristics _____ PRESENCE _____ -mandatory } |
  { ID- id-ReportCharacteristics _____ CRITICALITY- _____ ignore _____ TYPE-
  ReportCharacteristics _____ PRESENCE _____ -mandatory } ,
  ...
}

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

DedicatedMeasurementObjectType-DM-RqstReq ::= CHOICEENUMERATED {
  rL _____ RL-DMeasure-RqstReq,
  all RL _____ All DMeasureReq
}

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

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

RL-InformationList-DMeasure-RqstReq ::= SEQUENCE (SIZE (1..maxNrOfneofRLs)) OF
  ProtocolIE-Container { { RL-InformationList-DMeasureReqItemIE } }

RL-InformationList-DMeasureReqItemIE NBAP-PROTOCOL-IES ::= {
  { ID- id-RL-InformationList-DMeasureReqItem _____ CRITICALITY- ignore _____
  TYPE- RL-InformationList-DMeasureReqItem _____ PRESENCE- mandatory
  },
  ...
}

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

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

All RL Req ::= SEQUENCE {
  dedicatedMeasurementValue _____ DedicatedMeasurementValue
}

-- *****
--
-- 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- PRESENCE mandatory } |
  { ID _____id-DedicatedMeasurementObjectType-DM-Resp _____ CRITICALITY _____ ignore TYPE-
  DedicatedMeasurementObjectType-DM-Resp _____ PRESENCE _____-mandatory } |
  { ID _____id-CFN _____ CRITICALITY _____ ignore TYPE-
  CFN _____ PRESENCE _____-mandatory } |
  { ID _____id-CriticalityDiagnostic_____ CRITICALITY _____ ignore TYPE-
  CriticalityDiagnostic_____ PRESENCE _____-optional _____
},
  ...
}

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

DedicatedMeasurementObjectType-DM-Resp ::= CHOICEENUMERATED {
- rL _____ RL-InformationList-DM-Resp,
- all-RL _____ DedicatedMeasurementValueAll-RL- resp
}

RL-Resp ::= SEQUENCE {
  _____rL-InformationList-DMeasureResponse _____ RL-InformationList-
  DmeasureResponse
}

RL-InformationList-DMeasure-Response ::= SEQUENCE (SIZE (1..maxNrOfRls)) OF
  ProtocolIE-Container {{RL-Information-DMeasureResponseItemIE }}

RL-Information-DMeasureResponseItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Information-DMeasureResponseItem _____ CRITICALITY ignore _____ TYPE _____RL-Information-
  DMeasureResponseItem _____ PRESENCE mandatory
  },
  ...
}

RL-Information-DMeasureResponseItem ::= SEQUENCE {
  _____rL-ID _____ RL-ID,
  _____dPCH-ID _____ DPCH-ID _____ OPTIONAL,
  _____dedicatedMeasurementValue _____ DedicatedMeasurementValue,
  _____ie-Extensions _____ ProtocolExtensionContainer { { RL-InformationList-DM-
  Rsp-ExtIEs } } _____ OPTIONAL,
  ...
}

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

All-RL-Resp ::= SEQUENCE {
  _____dedicatedMeasurementValue _____ DedicatedMeasurementValue
}

-- *****
--
-- 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-CriticalityDiagnostic CRITICALITY ignore TYPE-
  CriticalityDiagnostic 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 DM-Rprt CRITICALITY ignore TYPE-
  DedicatedMeasurementObjectType-DM-Rprt PRESENCE mandatory } |
  { ID_ id-CFN CRITICALITY ignore TYPE-
  CFN PRESENCE optional mandatory },
  ...
}

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

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICEENUMERATED {
  rL RL-InformationList-DM-RprtRL-Rep,
  all-RL DedicatedMeasurementValueAll-RL-Rep
}

RL-Rep ::= SEQUENCE {
  rL-InformationList-DMeasureReport RL-InformationList-
DMeasureReport
}

RL-InformationList-DMeasureReport ::= SEQUENCE (SIZE (1..maxNrOfRls)) OF
  ProtocolIE-Container {{RL-Information-DMeasureReportItemIE}}

RL-Information-DMeasureReportItemIE NBAP-PROTOCOL-IES ::= {
  { ID_ id-RL-Information-DMeasureReportItem CRITICALITY ignore TYPE-RL-Information-
DMeasureReportItem PRESENCE mandatory },
  ...
}

RL-Information-DMeasureReportItem ::= SEQUENCE {
  rL-ID RL-ID,
  dPCH-ID DPCH-ID OPTIONAL,
  dedicatedMeasurementValue DedicatedMeasurementValue,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationList-DM-Rprt-
ExtIEs } } OPTIONAL,
  ...
}

RL-InformationList-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

...
}
All-RL-Rep ::= SEQUENCE {
  dedicatedMeasurementValue DedicatedMeasurementValue
}

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

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

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

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-RL-InformationList-RL-FailureInd _____ CRITICALITY _____ ignore _____ TYPE- RL-
  InformationList-RL-FailureInd _____ PRESENCE -mandatory } |
  { ID- id-CriticalityDiagnostic _____ CRITICALITY _____ ignore _____ TYPE-
  CriticalityDiagnostic _____ PRESENCE- PRESENCE optional _____
  },
  ...
}

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

RL-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRls)) OF
  ProtocolIE-Container {{ RL-InformationItemIEList-RL-FailureIndItemIE }}

RL-InformationItemIEList-RL-FailureInd-ItemIE NBAP-PROTOCOL-IES ::= {
  { I-D- id-RL-InformationItemList-RL-FailureIndItem _____ CRITICALITY- _____ ignore
  TYPE- RL-InformationItemList-RL-FailureIndItem _____ PRESENCE -mandatory },
  ...
}

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

RL-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-RL-InformationList-RL-RestoreInd _____ CRITICALITY- _____ ignore _____ TYPE-
  RL-InformationList-RL-RestoreInd _____ PRESENCE -mandatory },
  ...
}

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

RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRls)) OF
  ProtocolIE-Container {{RL-InformationItemIEList-RL-RestoreIndItemIE }}

RL-InformationItemIEList-RL-RestoreIndItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID-id-RL-InformationItemList-RL-RestoreIndItem CRITICALITY-CRITICALITY ignore
      TYPE-TYPE RL-InformationItemList-RL-RestoreIndItem PRESENCE mandatory
    },
    ...
  }

```

```

RL-InformationItemList-RL-RestoreIndItem ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-RL-
RestoreInd-ExtIEs } } OPTIONAL,
  ...
}

```

```

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

```

```

-- *****
--
-- COMPRESSED MODE PREPARE FDD
--
-- *****

```

```

CompressedModePrepareFDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container
  {{CompressedModePrepareFDD-IEs}},
  protocolExtensions ProtocolExtensionContainer_{{CompressedModePrepareFDD-
Extensions}}
  OPTIONAL,
  ...
}

```

```

CompressedModePrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID-id-NodeB-CommunicationContextID CRITICALITY- ignore TYPE NodeB-
CommunicationContextID PRESENCE-PRESENCE mandatory } |
  { ID-id-TGP1 CRITICALITY- ignore TYPE-
GapPeriodTGP1 PRESENCE-PRESENCE mandatory } |
  { ID-id-TGP2 CRITICALITY- ignore TYPE-
TGP2GapPeriod PRESENCE-PRESENCE optional } |
  { ID-id-TGL CRITICALITY- ignore TYPE- TGL
PRESENCE-PRESENCE mandatory } |
  { ID-id-TGD CRITICALITY- ignore TYPE- TGD
PRESENCE-PRESENCE mandatory } |
  { ID id-PD CRITICALITY ignore TYPE PD
PRESENCE mandatory } |
  { ID-id-UL-DL-CompressedModeSelection CRITICALITY- ignore TYPE- UL-DL-
CompressedModeSelection PRESENCE-PRESENCE mandatory } |
  { ID-id-CompressedModeMethod CRITICALITY- ignore TYPE-
CompressedModeMethod PRESENCE-PRESENCE mandatory } |
  { ID-id-GapPositionMode CRITICALITY- ignore TYPE-
GapPositionMode PRESENCE-PRESENCE mandatory } |
  { ID-id-SN CRITICALITY- ignore TYPE-
TimeSlotsSN PRESENCE-PRESENCE optional } |
  -- This IE is present if Gap position mode = 'flexible position'--
  { ID-id-DL-FrameType CRITICALITY- ignore TYPE- DL-
FrameType PRESENCE-PRESENCE mandatory } |
  { ID-id-ScramblingCodeChange CRITICALITY- ignore TYPE-
ScramblingCodeChange PRESENCE-PRESENCE optional } |
  -- This IE is present if Compressed mode method = 'SF/2' --
  { ID-id-PowerControlMode CRITICALITY- ignore TYPE
PowerControlMode PRESENCE-PRESENCE mandatory } |
  { ID-id-PowerResumeMode CRITICALITY-CRITICALITY ignore TYPE-
PowerResumeMode PRESENCE-PRESENCE mandatory } |
  { ID-id-UL-DeltaEb-No CRITICALITY-CRITICALITY ignore TYPE
UL-DeltaEb-No PRESENCE-PRESENCE mandatory } |
  { ID-id-UL-DeltaEb-No-aAfter CRITICALITY- ignore TYPE UL-
DeltaEb-No-aAfter PRESENCE-PRESENCE mandatory },
  ...
}

```

```

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

```

```

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

```

```

-- *****
CompressedModeReadyFDD ::= SEQUENCE {
    protocolIEs _____ ProtocolIE-Container _____
    {{CompressedModeReadyFDD-IEs}},
    protocolExtensions _____ ProtocolExtensionContainer_{{CompressedModeReadyFDD-
Extensions}} _____ OPTIONAL,
    ...
}

CompressedModeReadyFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID_ id-CRNC-CommunicationContextID CRITICALITY_ ignore TYPE_ CRNC-
CommunicationContextID PRESENCE_ mandatory } | 7
    { ID_ id-CriticalityDiagnostics CRITICALITY_ ignore TYPE_
CriticalityDiagnostics PRESENCE_ optional },
    ...
}

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

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

CompressedModeCommitFDD ::= SEQUENCE {
    protocolIEs _____ ProtocolIE-Container _____
    {{CompressedModeCommitFDD-IEs}},
    protocolExtensions _____ ProtocolExtensionContainer_{{CompressedModeCommitFDD-
Extensions}} _____ OPTIONAL,
    ...
}

CompressedModeCommitFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID_ id-NodeB-CommunicationContextID CRITICALITY_ ignore TYPE_
NodeB-CommunicationContextID PRESENCE_ mandatory } |
    { ID_ id-CFN CRITICALITY_ ignore TYPE_ CFN
PRESENCE_ mandatory },
    ...
}

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

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

CompressedModeFailureFDD ::= SEQUENCE {
    protocolIEs _____ ProtocolIE-Container _____
    {{CompressedModeFailureFDD-IEs}},
    protocolExtensions _____ ProtocolExtensionContainer_{{CompressedModeFailureFDD-
Extensions}} _____ OPTIONAL,
    ...
}

CompressedModeFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID_ id-CRNC-CommunicationContextID CRITICALITY_ ignore TYPE_
CRNC-CommunicationContextID PRESENCE_ mandatory } |
    { ID_ id-Cause CRITICALITY_ ignore TYPE_
Cause PRESENCE_ mandatory } |
    { ID_ id-CriticalityDiagnostics CRITICALITY_ ignore TYPE_
CriticalityDiagnostics PRESENCE_ optional },
    ...
}

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

```

```

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

CompressedModeCancelFDD ::= SEQUENCE {
    protocolIEs _____ ProtocolIE-Container _____
    {{CompressedModeCancelFDD-IEs}},
    protocolExtensions _____ ProtocolExtensionContainer_{{CompressedModeCancelFDD-
Extensions}} _____ OPTIONAL,
    ...
}

CompressedModeCancelFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID_ id-NodeB-CommunicationContextID _____ CRITICALITY_ ignore _____ TYPE_
NodeB-CommunicationContextID _____ PRESENCE_ mandatory _____ },
    ...
}

CompressedModeCancelFDD-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-Cause _____ CRITICALITY_ ignore _____ TYPE_ Cause
PRESENCE- PRESENCE mandatory } |
    -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
    { ID_ id-CRNC-CommunicationContextID _____ CRITICALITY_ ignore _____ TYPE_ CRNC-
CommunicationContextID _____ PRESENCE- PRESENCE optional } |
    -- This IE is only present when message is transmitted by NodeBRNC --
    { ID_ id-NodeB-CommunicationContextID _____ CRITICALITY_ ignore _____ TYPE_ NodeB-
CommunicationContextID _____ PRESENCE- PRESENCE optional } |
    -- This IE is only present when message is transmitted by RNCNodeB --
    { ID_ id-CriticalityDiagnosticS _____ CRITICALITY_ ignore _____ TYPE_ I3-
CriticalityDiagnosticS _____ PRESENCE- PRESENCE optional },
    -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
    ...
}

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

-- *****
--
-- PRIVATE MESSAGE
--
-- *****

PrivateMessage ::= SEQUENCE {
    privateExtensions _____ ProtocolExtensionContainer_{{PrivateExtensions}},
    ...
}

PrivateExtensions NBAP-PRIVATE-EXTENSION ::= {
    ...
}

END

```

CHANGE REQUEST

25.433 CR 073r1

Current Version: **3.0.0**

↑ CR number as allocated by MCC support team

For submission to: **RAN#7**
 list expected approval meeting # here ↑

for approval
 for information

strategic
 non-strategic (for SMG use only)

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

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

(U)SIM ME UTRAN / Radio Core Network

Source: **R-WG3**

Date: **1st March 2000**

Subject: **Proposed changes to NBAP ASN.1 descriptions for private messages**

Work item: **7**

Category:
 (only one category shall be marked with an X)

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

Release:

Phase 2	<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:

During RAN3#9 it was agreed to remove private extensions within the messages in RAN3 protocols, but keep them at message level. As a result, it is no longer clear from the ASN.1 descriptions what the scope of the private messages is. This CR proposes changes to the ASN.1 descriptions in order to clarify this.

In addition, there are currently discrepancies between the ASN.1 descriptions within the 3 protocol specifications (25.413, 25.423 and 25.433). This proposal is aligned with 25.423 CR061r1 and 25.413 CR 074 to provide consistent ASN.1 descriptions.

Clauses affected: **Chapters 9.3.1, 9.3.6**

Other specs affected:

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

Other comments:

This CR is based on 25.433 v3.0.0 and also assumes that CR24 and CR25 against this specification are accepted.

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

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

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

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

9.3.1 Usage of ~~protocol extension~~ Private Message mechanism for non-standard use

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

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

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

9.3.2 PDU Description for NBAP

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

NBAP-ELEMENTARY-PROCEDUREdefinitions -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

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


CommonTransportChannelSetupRequestFDD,
CommonTransportChannelSetupRequestTDD,
CommonTransportChannelSetupResponse,
CommonTransportChannelSetupFailure,
CommonTransportChannelReconfigurationRequestFDD,
CommonTransportChannelReconfigurationRequestTDD,
CommonTransportChannelReconfigurationResponse,
CommonTransportChannelReconfigurationFailure,
CommonTransportChannelDeletionRequest,
CommonTransportChannelDeletionResponse,
BlockResourceRequest,
BlockResourceResponse,
BlockResourceFailure,
UnblockResourceIndication,
AuditRequiredIndication,
AuditRequest,
AuditResponse,
CommonMeasurementInitiationRequest,
CommonMeasurementInitiationResponse,
CommonMeasurementInitiationFailure,
CommonMeasurementTerminationRequest,
CommonMeasurementFailureIndication,
CommonMeasurementReport,
CellSetupRequestFDD,
CellSetupRequestTDD,
CellSetupResponse,
CellSetupFailure,
CellReconfigurationRequestFDD,
CellReconfigurationRequestTDD,
CellReconfigurationResponse,
CellReconfigurationFailure,
CellDeletionRequest,
CellDeletionResponse,
ResourceStatusIndication,
SystemInformationUpdateRequest,
SystemInformationUpdateResponse,
SystemInformationUpdateFailure,
RadioLinkSetupRequestFDD,
RadioLinkSetupResponseFDD,
RadioLinkSetupFailureFDD,
RadioLinkSetupRequestTDD,
RadioLinkSetupResponseTDD,
RadioLinkSetupFailureTDD,
NeighbourCellMeasurementRequestTDD,
NeighbourCellMeasurementResponseTDD,
NeighbourCellMeasurementFailureTDD,
SynchronisationAdjustmentRequestTDD,
SynchronisationAdjustmentResponseTDD,
SynchronisationAdjustmentFailureTDD,
NodeBOutOfSyncIndicationTDD,
SynchronisationRestartRequestTDD,
RadioLinkAdditionRequestFDD,
RadioLinkAdditionResponseFDD,
RadioLinkAdditionFailureFDD,

RadioLinkAdditionRequestTDD,
 RadioLinkAdditionResponseTDD,
 RadioLinkAdditionFailureTDD,
 RadioLinkReconfigurationPrepareFDD,
 RadioLinkReconfigurationPrepareTDD,
 RadioLinkReconfigurationReady,
 RadioLinkReconfigurationCommit,
 RadioLinkReconfigurationFailure,
 RadioLinkReconfigurationCancel,
 RadioLinkReconfigurationRequestFDD,
 RadioLinkReconfigurationRequestTDD,
 RadioLinkReconfigurationResponse,
 RadioLinkDeletionRequest,
 RadioLinkDeletionResponse,
 DLPowerControlRequestFDD,
 DedicatedMeasurementInitiationRequest,
 DedicatedMeasurementInitiationResponse,
 DedicatedMeasurementInitiationFailure,
 DedicatedMeasurementTerminationRequest,
 DedicatedMeasurementFailureIndication,
 DedicatedMeasurementReport,
 RadioLinkFailureIndication,
 RadioLinkRestoreIndication,
 CompressedModePrepareFDD,
 CompressedModeReadyFDD,
 CompressedModeCommitFDD,
 CompressedModeFailureFDD,
 CompressedModeCancelFDD,
 ErrorIndication

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-commonTransportChannelDeletion,
 id-commonTransportChannelReconfiguration,
 id-commonTransportChannelSetup,
 id-compressedModeControlCancellation,
 id-compressedModeControlCommit,
 id-compressedModeControlPreparation,
 id-dedicatedMeasurementFailure,
 id-dedicatedMeasurementInitiation,
 id-dedicatedMeasurementReport,
 id-dedicatedMeasurementTermination,
 id-dlPowerControl,
 id-neighbourCellMeasurement,
 id-radioLinkAddition,

```

id-radioLinkDeletion,
id-radioLinkFailure,
id-radioLinkReconfigurationCommit,
id-radioLinkReconfigurationCancel,
id-radioLinkRestoration,
id-radioLinkSetup,
id-resourceStatusIndication,
id-synchronisationAdjustment,
id-synchronisationFailure,
id-synchronisationRestart,
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,
    successfulOutcome          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-3      |
    ...
}

```

```

NBAP-ELEMENTARY-PROCEDURES-CLASS-1 NBAP-ELEMENTARY-PROCEDURE ::= {
  commonTransportChannelSetupFDD
  commonTransportChannelSetupTDD
  commonTransportChannelReconfigurationFDD
  commonTransportChannelReconfigurationTDD
  commonTransportChannelDeletion
  blockResource
  audit
  commonMeasurementInitiation
  cellSetupFDD
  cellSetupTDD
  cellReconfigurationFDD
  cellReconfigurationTDD
  cellDeletion
  systemInformationUpdate
  radioLinkSetupFDD
  radioLinkSetupTDD
  neighbourCellMeasurementTDD
  synchronisationAdjustmentTDD
  radioLinkAdditionFDD
  radioLinkAdditionTDD
  radioLinkReconfigurationCommit
  radioLinkReconfigurationCancellation
  radioLinkDeletion
  dedicatedMeasurementInitiation
  compressedModeControlPreparationFDD
  ...
}

```

```

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
  unblockResource
  auditRequired
  commonMeasurementTermination
  commonMeasurementFailure
  commonMeasurementReport
  resourceStatusIndication
  synchronisationFailureTDD
  synchronisationRestartTDD
  synchronisedRadioLinkReconfigurationPreparationFDD
  synchronisedRadioLinkReconfigurationPreparationTDD
  unsynchronisedRadioLinkReconfigurationFDD
  unsynchronisedRadioLinkReconfigurationTDD
  dlPowerControlFDD
  dedicatedMeasurementTermination
  dedicatedMeasurementFailure
  dedicatedMeasurementReport
  radioLinkFailure
  radioLinkRestoration
  compressedModeControlCommitFDD
  compressedModeControlCancellationFDD
  errorIndication
  privateMessage
  ...
}

```

```

}
NBAP_ELEMENTARY_PROCEDURES_CLASS_3 NBAP_ELEMENTARY_PROCEDURE ::= {
  privateMessage
  ..
}

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

-- Class 1

-- *** 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 ignore
}

-- *** 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 ignore
}

-- *** CommonTransportChannelReconfiguration (FDD) ***
commonTransportChannelReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelReconfigurationRequestFDD
  SUCCESSFUL OUTCOME CommonTransportChannelReconfigurationResponse
  UNSUCCESSFUL OUTCOME CommonTransportChannelReconfigurationFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonTransportChannelReconfiguration, ddMode fdd }
  CRITICALITY ignore
}

-- *** CommonTransportChannelReconfiguration (TDD) ***
commonTransportChannelReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelReconfigurationRequestTDD
  SUCCESSFUL OUTCOME CommonTransportChannelReconfigurationResponse
  UNSUCCESSFUL OUTCOME CommonTransportChannelReconfigurationFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonTransportChannelReconfiguration, ddMode tdd }
  CRITICALITY ignore
}

```

```

}

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

-- *****
-- *** 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          ignore
}

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

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

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

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

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

-- *****
-- *** 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            ignore
}

-- *** 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            ignore
}

-- *** 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             ignore
}

-- *** 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           ignore
}

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

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

-- *****
-- *** 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           ignore
}

-- *****
-- *** 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           ignore
}

```

```

}
-- *** 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          ignore
}

-- *****
-- *** NeighbourCellMeasurement (TDD only) ***
neighbourCellMeasurementTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  NeighbourCellMeasurementRequestTDD
  SUCCESSFUL OUTCOME  NeighbourCellMeasurementResponseTDD
  UNSUCCESSFUL OUTCOME  NeighbourCellMeasurementFailureTDD
  MESSAGE DISCRIMINATOR  common
  PROCEDURE ID          { procedureCode id-neighbourCellMeasurement, ddMode tdd }
  CRITICALITY          ignore
}

-- *****
-- *** SynchronisationAdjustment (TDD only) ***
synchronisationAdjustmentTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  SynchronisationAdjustmentRequestTDD
  SUCCESSFUL OUTCOME  SynchronisationAdjustmentResponseTDD
  UNSUCCESSFUL OUTCOME  SynchronisationAdjustmentFailureTDD
  MESSAGE DISCRIMINATOR  common
  PROCEDURE ID          { procedureCode id-synchronisationAdjustment, ddMode tdd }
  CRITICALITY          ignore
}

-- *****
-- *** NodeBOutOfSyncIndication (TDD only) ***
synchronisationFailureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  NodeBOutOfSyncIndicationTDD
  MESSAGE DISCRIMINATOR  common
  PROCEDURE ID          { procedureCode id-synchronisationFailure, ddMode tdd }
  CRITICALITY          ignore
}

-- *****
-- *** SynchronisationRestart (TDD only) ***
synchronisationRestartTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  SynchronisationRestartRequestTDD
  MESSAGE DISCRIMINATOR  common
  PROCEDURE ID          { procedureCode id-synchronisationRestart, ddMode tdd }
  CRITICALITY          ignore
}

-- *****
-- *** 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            ignore
}

-- *** 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           ignore
}

-- *** RadioReconfirurationPrepare (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           ignore
}

-- *** RadioReconfirurationPrepare (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           ignore
}

-- *** (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           ignore
}

-- *** (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           ignore
}

```

```

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

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

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

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

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

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

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

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

-- *****
-- *** CompressedModePrepare (FDD only) ***
compressedModeControlPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CompressedModePrepareFDD
  SUCCESSFUL OUTCOME CompressedModeReadyFDD
  UNSUCCESSFUL OUTCOME CompressedModeFailureFDD
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID { procedureCode id-compressedModeControlPreparation, ddMode fdd }
  CRITICALITY ignore
}

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

-- *** CompressedModeCommit (FDD only) ***

```

```

compressedModeControlCancellationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CompressedModeCancelFDD
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID        { procedureCode id-compressedModeControlCancellation, ddMode fdd }
  CRITICALITY         ignore
}

-- *** ErrorIndication ***
errorIndication NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  errorIndication
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID        { procedureCode          id- errorIndication Cancellation, ddMode common }
  CRITICALITY         ignore
}

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

-- Class 3
-- *** PrivateMessage ***
privateMessage NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  PrivateMessage
  OUTCOME             PrivateMessage
  PROCEDURE ID        { procedureCode id-privateMessage, ddMode common }
  CRITICALITY         ignore
}

END

```

9.3.3 NBAP PDU Content Definitions

```

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

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

BEGIN

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

```

IMPORTS

AICH-InformationList,
AICH-Parameters,
AICH-Power,
AICH-TransmissionTiming,
AddOrDeleteIndicator,
AvailabilityStatus,
BindingID,
BlockingPriorityIndicator,
BurstType,
CCTrCH-ID,
CFN,
CN-CSDomainIdentifier,
CN-PSDomainIdentifier,
CRNC-CommunicationContextID,
Cause,
CellParameter,
Cell-Parameter,
ChipOffset,
CommonMeasurementType,
CommonPhysicalChannelID,
CommonPhysicalChannelType,
CommonTransportChannelID,
CommonTransportChannelType,
CommunicationControlPortID,
CommunicationControlPortInformationList,
CompressesModeMethod,
ConfigurationGenerationID,
DCH-CombinationIndication,
DCH-Delete-RL-ReconfReqTDDItem,
DCH-ID,
DCH-InformationResponse-RL-setupResFDD,
DCH-Modify-RL-ReconfPrepTDDItem,
DL-CCTrCH-ID,
DL-CodeInformation,
DL-DPCH-InformationItem-RL-ReconfReqFDD,
DL-DPCH-SlotFormat,
DL-FrameType,
DL-Power,
DL-ReferencePower,
DL-ReferencePowerInformationItem,
DL-ScramblingCode,
DPCH-ID,
DPCH-Offset,
DSCH-ID,
DSCH-InformationResponse-RL-setupResFDD,
DSCH-ModifyList-RL-ReconfResp,
DSCH-SetupList-RL-ReconfResp,
DSCH-TransportFormatSet,
DTX-InsertionPoint,
DTX-InsertionPosition,
D-FieldLength,
DedicatedMeasurementType,
DedicatedMeasurementValue,

DeltaTPC,
DiversityControlField,
DiversityMode,
FACH-Power,
FDD-DL-ChannelisationCodeNumber,
FDD-SCCPCH-Offset,
FrameHandlingPriority,
FrameOffset,
GapStartingSlotNumber,
LocalCellID,
LocalCellInformationList,
LocalCell-ID,
Local-CellID,
MIB-SG-POS,
MIB-SG-REP,
MaxFACH-Power,
MaxNrOfUL-DPDCHs,
MaxNumberOfUL-DPDCHs,
MaximumDLPowerCapability,
MaximumDL-PowerCapability,
MaximumTransmissionPower,
MaximumUL-EbNO,
Maximum-DL-PowerCapability,
MeasuredCellInfo,
MeasurementCharacteristics,
MeasurementID,
MeasurementType,
MessagePartScramblingCode,
MidambleShift,
MidambleShift,
MinUL-ChannelisationCodeLength,
MinimumSpreadingFactor,
MinimumUL-EbNO,
NodeB-CommunicationContextID,
NumberOfChannelElements,
Offset,
PCCPCH-Power,
PCCPCH-TimeSloti,
PCH-Power,
PICH-Information,
PICH-Power,
PSCH-Power,
PSCHandPCCPCH-Allocation,
PSCHandPCCPCH-TimeSlotK,
PUSCH,
PagingIndicatorLength,
PatternDuration,
PayloadCRC-PresenceIndicator,
PilotBitsUsedIndicator,
PowerControlMode,
PowerOffset,
PowerResumeMode,
PreambleScramblingCode,
PreambleSignatures,

PrimaryCPICH-Power,
PrimarySCH-Power,
PrimaryScramblingCode,
Primary-ScramblingCode,
PropagationDelay,
PunctureLimit,
RACH-SlotFormat,
RACH-SubChannelNumbers,
RLC-Mode,
RL-ID,
RL-Information,
RL-InformationItem,
RL-InformationItem-RL-SetupReqTDD,
RL-InformationList-DMeasureRequest,
RL-ReconfigurationFailure-RL-ReconfFailItem,
RadioLinkInformation-RL-ReconfReqTDD,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
ResourceOperationState,
ResourceOperationalState,
SAI,
SFN,
SIB-SG-POS,
SIB-SG-REP,
SSDT-CellIdentity,
SSDT-CellIdentityLength,
SSDT-Cell-IDLength,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
S-CCPCH-Offset,
S-CCPCH-Power,
S-FieldLength,
ScramblingCode,
ScramblingCodeChange,
SecondaryCCPCH-SlotFormat,
SecondaryCPICH-Power,
SecondarySCH-Power,
ShutdownTimer,
SynchronisationMethod,
TDDChipOffset,
TDD-ChannelisationCode,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TSTD-Indicator,
T-Cell,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionGapDistance,

```

TransmissionGapPeriod,
TransmitGapLength,
TransmitGapPositionMode,
TransportFormatCombinationSet,
TransportFormatSet,
TransportLayerAddress,
UARFCN,
C-ID,
UL-CCTrCHInformation,
UL-CCTrCH-ID,
UL-DPCCH-SlotFormat,
UL-FP-Mode,
UL-InterferenceLevel,
UL-PunctureLimit,
UL-ScramblingCode,
UplinkEbNo
FROM NBAP-IEs

```

```

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

```

```

id-AICH-Information-ResourceStatIndItem,
id-AICH-ParametersList,
id-AICH-ParametersListItem,
id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD,
id-AllowedSlotFormatInformationListItem-CTCHsetup-Req-FDD,
id-BlockingPriorityIndicator,
id-CCTrCH-ParametersList,
id-CCTrCH-ParametersListItem,
id-CFN,
id-CRNC-CommunicationContextID,
id-CRNCCommunicationContextID,
id-Cause,
id-Cell-Information-ResourceStatIndItem,
id-Cell-InformationItem,
id-Cell-InformationList,
id-Cell-Parameter,
id-Cell-ParametersItem,
id-Cell-ParametersList,
id-CellParameter,
id-CommonMeasurementObjectType,
id-CommonMeasurementType,
id-CommonPhysicalChannelID,
id-CommonPhysicalChannelType-CTCHsetup-Req-FDD,
id-CommonPhysicalChannelType-CTCHsetup-Response,
id-CommunicationControlPort-InformationItem,

```

id-CommunicationControlPortID,
id-CommunicationControlPortInformation-ResourceStatIndItem,
id-CommunicationControlPortInformationList,
id-CompressesModeMethod,
id-ConfigurationGenerationID,
id-DCH-Add-RL-ReconfPrepFDDItem,
id-DCH-Add-RL-ReconfPrepTDDItem,
id-DCH-Add-RL-ReconfReadyItem,
id-DCH-Add-RL-ReconfReqFDDItem,
id-DCH-Add-RL-ReconfReqTDDItem,
id-DCH-AddItem-RL-ReconfResp,
id-DCH-AddList-RL-ReconfPrepFDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-AddList-RL-ReconfReqFDD,
id-DCH-AddList-RL-ReconfReqTDD,
id-DCH-Delete-RL-ReconfPrepFDDItem,
id-DCH-Delete-RL-ReconfPrepTDDItem,
id-DCH-Delete-RL-ReconfReqFDDItem,
id-DCH-Delete-RL-ReconfReqTDDItem,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfReqFDD,
id-DCH-DeleteList-RL-ReconfReqTDD,
id-DCH-Information-RL-SetupReqFDDItem,
id-DCH-Information-RL-SetupReqTDDItem,
id-DCH-InformationList-RL-SetupReqFDD,
id-DCH-InformationList-RL-SetupReqTDD,
id-DCH-InformationResponse-RL-SetupFailFDDItem,
id-DCH-InformationResponse-RL-setupResTDDItem,
id-DCH-InformationResponseItem,
id-DCH-Modify-RL-ReconfPrepFDDItem,
id-DCH-Modify-RL-ReconfPrepTDDItem,
id-DCH-Modify-RL-ReconfReadyItem,
id-DCH-Modify-RL-ReconfReqFDDItem,
id-DCH-Modify-RL-ReconfReqTDDItem,
id-DCH-ModifyItem-RL-ReconfResp,
id-DCH-ModifyList-RL-ReconfPrepFDD,
id-DCH-ModifyList-RL-ReconfPrepTDD,
id-DCH-ModifyList-RL-ReconfReqFDD,
id-DCH-ModifyList-RL-ReconfReqTDD,
id-DL-CCTrCH-Information-RL-ReconfPrepTDDItem,
id-DL-CCTrCH-Information-RL-ReconfReqTDDItem,
id-DL-CCTrCH-Information-RL-SetupReqTDDItem,
id-DL-CCTrCH-InformationItem,
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationList-RL-ReconfReqTDD,
id-DL-CCTrCH-InformationList-RL-SetupReqTDD,
id-DL-CCTrCHInformationItem,
id-DL-CCTrCHInformationList,
id-DL-CodeInformation,
id-DL-CodeInformation-RL-ReconfPrepFDDItem,
id-DL-CodeInformation-RL-SetupReqFDDItem,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Information-RL-ReconfPrepTDDItem,

id-DL-DPCH-Information-RL-SetupReqTDDItem,
id-DL-DPCH-InformationItem,
id-DL-DPCH-InformationItem-RL-ReconfReqFDD,
id-DL-DPCH-InformationItem-RL-SetupReqFDD,
id-DL-FrameType,
id-DL-ReferencePowerInformationItem,
id-DSCH-AddItem-RL-ReconfPrepFDD,
id-DSCH-AddItem-RL-ReconfReqFDD,
id-DSCH-DeleteItem-RL-ReconfPrepFDD,
id-DSCH-DeleteItem-RL-ReconfReqFDD,
id-DSCH-ID,
id-DSCH-Information-RL-SetupReqFDDItem,
id-DSCH-InformationList-RL-SetupReqFDD,
id-DSCH-InformationResponse-RL-SetupFailFDDItem,
id-DSCH-InformationResponse-RL-setupResFDDItem,
id-DSCH-ModifyItem-RL-ReconfPrepFDD,
id-DSCH-ModifyItem-RL-ReconfReqFDD,
id-DedicatedMeasurementObjectType,
id-DedicatedMeasurementType,
id-FACH-Information-ResourceStatIndItem,
id-FACH-InformationItem,
id-FACH-ListItem,
id-FACH-ParametersList-CTCHreconf-Req-FDD,
id-FACH-ParametersList-CTCHreconf-Req-TTD,
id-FACH-ParametersListItem-CTCHreconf-Req-FDD,
id-FACH-ParametersListItem-CTCHreconf-Req-TTD,
id-FACH-ParametersListItem-CTCHsetup-Req-FDD,
id-FACH-ParametersListItem-CTCHsetup-Response,
id-GapStartingSlotNumber,
id-IndicationType,
id-Local-Cell-Information-ResourceStatIndItem,
id-Local-CellInformation-ResourceStatIndItem,
id-LocalCell-ID,
id-LocalCell-InformationItem,
id-LocalCellInformationList,
id-MIB-SegmentInformationItem,
id-MIB-SegmentInformationList,
id-MaximumTransmissionPower,
id-MeasuredCellInfo,
id-MeasurementCharacteristics,
id-MeasurementID,
id-MeasurementType,
id-NeighbouringFDD-Cell-InformationItem,
id-NeighbouringTDD-Cell-InformationItem,
id-NodeB-CommunicationContextID,
id-PCCPCH-Information,
id-PCH-Information-ResourceStatIndItem,
id-PCH-InformationItem,
id-PCH-ListItem,
id-PCH-Parameters-CTCHreconf-Req-FDD,
id-PCH-ParametersList,
id-PCH-ParametersListItem,
id-PICH-Parameters-CTCHreconf-Req-FDD,
id-PRACH-ParametersList,

id-PRACH-ParametersListItem,
id-PSCH-Information,
id-PSCHandPCCPCH-Information,
id-PUSCH-ListItem,
id-PatternDuration,
id-PowerControlMode,
id-PowerResumeMode,
id-PrimaryCCPCH-Information,
id-PrimaryCPICH-Information,
id-PrimarySCH-Information,
id-PrimaryScramblingCode,
id-ProcedureScopeType,
id-RACH-Information-ResourceStatIndItem,
id-RACH-InformationItem,
id-RL-ID,
id-RL-Information,
id-RL-Information-DMeasureReportItem,
id-RL-Information-DMeasureRequestItem,
id-RL-Information-DMeasureResponseItem,
id-RL-Information-RL-ReconfPrepFDDItem,
id-RL-Information-RL-SetupReqFDDItem,
id-RL-InformationItem,
id-RL-InformationItem-RL-SetupReqTDD,
id-RL-InformationList,
id-RL-InformationList-RL-ReconfReqFDD,
id-RL-InformationList-RL-SetupReqFDD,
id-RL-InformationResponse-RL-setupResFDDItem,
id-RL-InformationResponseItem-RL-ReconfResp,
id-RL-InformationResponseList-RL-ReconfReady,
id-RL-InformationResponseList-RL-ReconfReadyItem,
id-RL-InformationResponseList-RL-ReconfResp,
id-RL-InformationResponseList-RL-setupResFDD,
id-RL-InformationResponseList-RL-setupResTDD,
id-RL-ReconfigurationFailure-RL-ReconfFailItem,
id-RL-ReconfigurationFailureList-RL-ReconfFail,
id-RL-ResponseInformation,
id-RL-ResponseInformationItem,
id-RL-ResponseInformationList,
id-RL-informationItem,
id-RL-informationList,
id-RadioLinkInformation-RL-ReconfPrepFDDItem,
id-RadioLinkInformation-RL-ReconfPrepTDD,
id-RadioLinkInformation-RL-ReconfReqTDD,
id-RadioLinkInformationList-RL-ReconfPrepFDD,
id-ReportCharacteristics,
id-SFN,
id-SIB-SegmentInformationItem,
id-SIB-SegmentInformationList,
id-ScramblingCodeChange,
id-Secondary-CCPCHListItem,
id-SecondaryCPICH-Information,
id-SecondarySCH-Information,
id-ShutdownTimer,
id-Successful-RL-InformationResponse-RL-SetupFailFDDItem,

id-Successful-RL-InformationResponseItem,
 id-Successful-RL-InformationResponseList,
 id-Successful-RL-InformationResponseList-RL-SetupFailFDD,
 id-SynchronisationMethod,
 id-T-Cell,
 id-TDDChipOffset,
 id-TimeSlotConfigurationItem,
 id-TimeSlotConfigurationList,
 id-TransmissionGapDistance,
 id-TransmissionGapPeriod,
 id-TransmitGapLength,
 id-TransmitGapPositionMode,
 id-UARFCN,
 id-C-ID,
 id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem,
 id-UL-CCTrCH-Information-RL-ReconfReqTDDItem,
 id-UL-CCTrCH-Information-RL-SetupReqTDDItem,
 id-UL-CCTrCH-InformationItemIE,
 id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
 id-UL-CCTrCH-InformationList-RL-ReconfReqTDD,
 id-UL-CCTrCH-InformationList-RL-SetupReqTDD,
 id-UL-CCTrCHInformation,
 id-UL-CCTrCHInformationList,
 id-UL-DPCH-Information-RL-ReconfPrepFDD,
 id-UL-DPCH-Information-RL-ReconfPrepTDDItem,
 id-UL-DPCH-Information-RL-SetupReqTDDItem,
 id-UL-DPCH-InformationItem-RL-ReconfReqFDD,
 id-UL-DPCH-InformationItem-RL-SetupReqFDD,
 id-UL-DPCH-InformationItemIE,
 id-USCH-Information-ResourceStatIndItem,
 id-USCH-InformationItem,
 id-USCH-ListItem-CTCHsetup-Req-TDD,
 id-Unsuccessful-RL-InformationResponse,
 id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem,
 id-Unsuccessful-RL-InformationResponseItem,
 id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD,
 id-Unsuccessful-RL-InformationResponseList,
 id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD,

 maxAICHCell,
 maxCCPInNodeB,
 maxCellInNodeB,
 maxFACHCell,
 maxLocalCellInNodeB,
 maxMIBSEG,
 maxPCHCell,
 maxPCHInNodeB,
 maxRACHCell,
 maxSF,
 maxSIBSEG,
 maxUCIDInNodeB,
 maxUSCHCell,
 maxnoCCTrCHs,
 maxnoofCCTrCHs,

```

maxnoofDCHs,
maxnoofDLCodes,
maxnoofDPCHs,
maxnoofDSCHs,
maxnoofFACHCell,
maxnoofFACHs,
maxnoofFDDNeighbours,
maxnoofPCHs,
maxnoofPRACHs,
maxnoofPUSHs,
maxnoofRL-1,
maxnoofRL-2,
maxnoofRLs,
maxnoofSCCPCHs,
maxnoofTDDNeighbours,
maxnoofUSCHs
FROM NBAP-Constants;

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

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

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID                CRITICALITY ignore TYPE C-ID                PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY ignore TYPE ConfigurationGenerationID PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCHsetup-Req-FDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCHsetup-Req-FDD PRESENCE
mandatory
},
    ...
}

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

CommonPhysicalChannelType-CTCHsetup-Req-FDD ::= ENUMERATED {
    secondary-CCPCH-parameters-CTCHsetup-Req-FDD                Secondary-CCPCH-parameters-CTCHsetup-Req-FDD,
    pRACH-parameters-CTCHsetup-Req-FDD                          PRACH-parameters-CTCHsetup-Req-FDD
}

Secondary-CCPCH-parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonPhysicalChannelID        CommonPhysicalChannelID,
    fdd-SCCPCH-Offset              FDD-SCCPCH-Offset,
    dl-ScramblingCode              DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,

```

```

    tFCS                TFCS,
    secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
    pilotBitsUsedIndicator PilotBitsUsedIndicator,
    multiPlexingPosition MultiPlexngPosition,
    STTD-Indicator      STTD-Indicator,
commonTransportChannelType CommonTransportChannelType-CTCHsetup-Req-FDD
}

CommonTransportChannelType-CTCHsetup-Req-FDD ::= ENUMERATED {
    fACH-ParametersList FACH-ParametersList-CTCHsetup-Req-FDD,
    pCH-Parameters      PCH-Parameters-CTCHsetup-Req-FDD,
    bothCH-Parameters  BothCH-Parameters-CTCHsetup-Req-FDD
}

BothCH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    fACH-ParametersList FACH-ParametersList-CTCHsetup-Req-FDD,
    pCH-Parameters      PCH-Parameters-CTCHsetup-Req-FDD
}

FACH-ParametersList-CTCHsetup-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
    ProtocolIE-Container {{ FACH-ParametersListItemIE-CTCHsetup-Req-FDD }}

FACH-ParametersListItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListItem-CTCHsetup-Req-FDD CRITICALITY ignore TYPE FACH-ParametersListItem-CTCHsetup-Req-FDD PRESENCE mandatory },
    ...
}

FACH-ParametersListItem-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    transportFormatSet       TransportFormatSet,
    toAWS                    ToAWS,
    toAWE                    ToAWE,
    maxFACH-Power            DL-Power
}

PCH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    transportFormatSet       TransportFormatSet,
    toAWS                    ToAWS,
    toAWE                    ToAWE,
    pCH-Power                DL-Power,
    pICH-Parameters          PICH-Parameters-CTCHsetup-Req-FDD
}

PICH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    cmmonPhysicalChannelID CommonPhysicalChannelID,
    dl-ScramblingCode       DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    pICH-Power              DL-Power,
    pICH-Mode               PICH-Mode,
    STTD-Indicator          STTD-Indicator
}

```



```

PRACH-parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    tFCS                          TFCS,
    preambleSignatures           PreambleSignatures,
    scramblingCodeWord           ScramblingCodeWord
allowedSlotFormatInformationList AllowedSlotFormatInformationList-CTCHsetup-Req-FDD,
    rACH-SubChannelNumbers       RACH-SubChannelNumbers,
    ul-punctureLimit             PunctureLimit,
    rACH-Parameters              RACH-Parameters-CTCHsetup-Req-FDD,
    aICH-Parameters              AICH-Parameters-CTCHsetup-Req-FDD
}

AllowedSlotFormatInformationList-CTCHsetup-Req-FDD ::= SEQUENCE (SIZE (1..maxSF)) OF ProtocolIE-Container
{{AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD}}

AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
    { ID id-AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD
      CRITICALITY ignore          TYPE AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD PRESENCE mandatory },
    ...
}

AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD ::= SEQUENCE {
    rACHSlotFormat                RACH-SlotFormat
}

RACH-Parameters ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportFormatSet           TransportFormatSet
}

AICH-Parameters ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    dl-ScramblingCode            DL-ScramblingCode,
    aICH-TransmissionTiming      AICH-TransmissionTiming,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    aICH-Power                    DL-Power,
    STTD-Indicator                STTD-Indicator
}

-- *****
--
-- 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 ignore      TYPE C-ID          PRESENCE mandatory }|

```

```

    { ID id-ConfigurationGenerationID          CRITICALITY ignore          TYPE ConfigurationGenerationID          PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCHsetupReqTDD  CRITICALITY ignore          TYPE CommonPhysicalChannelType-CTCHsetupReqTDD
    PRESENCE mandatory
    }|
  { ID id-CommontransportChannelType-CTCHsetupReqTDD  CRITICALITY ignore          TYPE CommontransportChannelType-CTCHsetupReqTDD  PRESENCE
  mandatory
  },
  ...
}

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

CommonPhysicalChannelType-CTCHsetupReqTDD ::= ENUMERATED {
  secondary-CCPCH-parameters-CTCHsetupReqTDD
pRACH-parameters-CTCHsetupReqTDD
Secondary-CCPCH-parameters-CTCHsetupReqTDD,
PRACH-parameters-CTCHsetupReqTDD
}

Secondary-CCPCH-parameters-CTCHsetupReqTDD ::= SEQUENCE {
  cCtrCH-ID          CCtrCH-ID,
  tFCS              TFCS,
  secondaryCCPCH    SecondaryCCPCHList-CTCHsetupReqTDD,
}

SecondaryCCPCHList-CTCHsetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofSCCPCHs)) OF
  ProtocolIE-Container {{ SecondaryCCPCHList-CTCHsetupReqTDDItemIE }}

SecondaryCCPCHList-CTCHsetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-SecondaryCCPCHList-CTCHsetupReqTDDItem  CRITICALITY ignore  TYPE SecondaryCCPCHList-CTCHsetupReqTDDItemPRESENCE mandatory
  },
  ...
}

SecondaryCCPCHList-CTCHsetupReqTDDItem ::= SEQUENCE {
  commonPhysicalChannelID    CommonPhysicalChannelID,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
  timeslot                  TimeSlot,
  burstType                 BurstType,
  midambleShift            MidambleShift,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod         RepetitionPeriod,
  repetitionLength         RepetitionLength,
  s-CCPCH-Power            DL-Power,
  tSTD-Indicator           TSTD-Indicator
}

PRACH-parameters-CTCHsetupReqTDD ::= SEQUENCE {
  commonPhysicalChannelID    CommonPhysicalChannelID,
  timeslot                  TimeSlot,
  tdd-ChannelisationCode    TDD-ChannelisationCode,
  burstType                 BurstType,
  maxPRACH-MidambleShift    MaxPRACH-MidambleShift  OPTIONAL,
  PRACH-Midamble            PRACH-Midamble,
}

```

```

    commonTransportChannelType          CommonTransportChannelType-CTCHsetupReqTDD,
    rACH                                RACH-CTCHsetupReqTDD
}

CommonTransportChannelType-CTCHsetupReqTDD ::= ENUMERATED {
    fACH-ParametersList      FACH-ParametersList-CTCHsetupReqTDD,
    pCH-Parameters          PCH-Parameters-CTCHsetupReqTDD,
    bothCH-Parameters       BothCH-Parameters-CTCHsetupReqTDD
}

BothCH-Parameters-CTCHsetupReqTDD ::= SEQUENCE {
    fACH-ParametersList      FACH-ParametersList-CTCHsetupReqFDD,
    pCH-Parameters          PCH-Parameters-CTCHsetupReqFDD
}

FACH-ParametersList-CTCHsetupReqFDD ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
    ProtocolIE-Container {{FACH-ParametersList-CTCHsetupReqFDD ItemIE }}

FACH-ParametersList-CTCHsetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersList-CTCHsetupReqFDDItem CRITICALITY ignore TYPE FACH-ParametersList-CTCHsetupReqFDDItem PRESENCE mandatory },
    ...
}

FACH-ParametersList-CTCHsetupReqFDDItem ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    dl-TransportFormatSet         DL-TransportFormatSet,
    toAWS                          ToAWS,
    toAWE                          ToAWE
}

PCH-ParametersList-CTCHsetupReqFDD ::= SEQUENCE (SIZE (1..maxnoofPCHs)) OF
    ProtocolIE-Container {{PCH-ParametersList-CTCHsetupReqFDD ItemIE }}

PCH-ParametersList-CTCHsetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersList-CTCHsetupReqFDDItem CRITICALITY ignore TYPE PCH-ParametersList-CTCHsetupReqFDDItem PRESENCE mandatory },
    ...
}

PCH-ParametersList-CTCHsetupReqFDDItem ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    dl-TransportFormatSet         DL-TransportFormatSet,
    toAWS                          ToAWS,
    toAWE                          ToAWE,
    pICH-Parameters              PICH-Parameters-CTCHsetupReqTDD
}

PICH-Parameters-CTCHsetup-Req-TDD ::= SEQUENCE {
    CommonPhysicalChannelID      CommonPhysicalChannelID,
    tdd-ChannelisationCode       TDD-ChannelisationCode,
    timeSlot                     TimeSlot,
    pICH-Power                   PICH-Power,
    burstType                     BurstType OPTIONAL,
    midambleshift                Midambleshift,
    tdd-PhysicalChannelOffset     TDD-PhysicalChannelOffset,

```

```

    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    pagingIndicatorLength  PagingIndicatorLength,
    pICH-Power            DL-Power
    ...
}

RACH-CTCHsetupReqTDD ::= SEQUENCE {
    commontransportChannelID  CommontransportChannelID
}

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

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

CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CommonPhysicalChannelType-CTCHsetup-Resp  CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCHsetup-Resp
    PRESENCE mandatory
} |
{ ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional },
    -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
    ...
}

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

CommonTransportChannelType-CTCHsetup-Resp ::= ENUMERATED {
    fACH-ParametersList      FACH-ParametersList-CTCHsetup-Resp,
    pCH-Parameters           PCH-Parameters-CTCHsetup-Resp,
    bothCH-Parameters        BothCH-Parameters-CTCHsetup-Resp
}

BothCH-Parameters-CTCHsetup-Resp ::= SEQUENCE {
    fACH-ParametersList      FACH-ParametersList-CTCHsetup-Resp,
    pCH-Parameters           PCH-Parameters-CTCHsetupResp
}

FACH-ParametersList-CTCHsetup-Resp ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
    ProtocolIE-Container {{FACH-ParametersList-CTCHsetup-RespItemIE}}

FACH-ParametersList-CTCHsetup-RespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersList-CTCHsetup-RespItem CRITICALITY ignore TYPE FACH-ParametersList-CTCHsetup-RespItemPRESENCE mandatory },

```

```

    ...
}

FACH-ParametersList-CTCHsetup-RespItem ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportLayerAddress         TransportLayerAddress,
bindingID                        BindingID
}

PCH-Parameters-CTCHsetup-Resp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportLayerAddress         TransportLayerAddress,
bindingID                        BindingID
}

PRACH-Parameters-CTCHsetup-Resp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportLayerAddress         TransportLayerAddress,
bindingID                        BindingID
}

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

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

CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cause                CRITICALITY ignore TYPE Cause                PRESENCE mandatory }|
    { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
    }|
    { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic 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-ConfigurationGenerationID          CRITICALITY ignore TYPE ConfigurationGenerationID          PRESENCE mandatory }|
    { ID id-FACH-ParametersList-CTCHreconf-Req-FDD CRITICALITY ignore TYPE FACH-ParametersList-CTCHreconf-Req-FDD PRESENCE optional }|
    { ID id-PCH-Parameters-CTCHreconf-Req-FDD CRITICALITY ignore TYPE PCH-Parameters-CTCHreconf-Req-FDD PRESENCE optional }|
    { ID id-PICH-Parameters-CTCHreconf-Req-FDD CRITICALITY ignore TYPE PICH-Parameters-CTCHreconf-Req-FDD PRESENCE optional }|
    { ID id-PRACH-ParametersList-CTCHreconf-Req-FDD CRITICALITY ignore TYPE PRACH-ParametersList-CTCHreconf-Req-FDD PRESENCE optional }
}

optional
{
    { ID id-AllowedSlotFormatInformationList-CTCHreconf-Req-FDD
CRITICALITY ignor          TYPE AllowedSlotFormatInformationList-CTCHreconf-Req-FDD PRESENCE optional
}
}
{
    { ID id-AICH-ParametersList-CTCHreconf-Req-FDD CRITICALITY ignore TYPE AICH-ParametersList-CTCHreconf-Req-FDD PRESENCE optional },
    ...
}

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

FACH-ParametersList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
    ProtocolIE-Container {{FACH-ParametersListItemIE-CTCHreconf-Req-FDD}}

FACH-ParametersListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListItemIE-CTCHreconf-Req-FDD CRITICALITY ignore TYPE FACH-ParametersListItemIE-CTCHreconf-Req-FDD PRESENCE mandatory },
    ...
}

FACH-ParametersListItemIE-CTCHreconf-Req-FDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    maxFACH-Power DL-Power OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL
}

PCH-Parameters-CTCHreconf-Req-FDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    pCH-Power DL-Power OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL
}

PICH-Parameters-CTCHreconf-Req-FDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    pICH-Power DL-Power
}

```

```

PRACH-ParametersList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofPRACHs)) OF
  ProtocolIE-Container {{PRACH-ParametersListItemIE-CTCHreconf-Req-FDD}}

PRACH-ParametersListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-ParametersListItem-CTCHreconf-Req-FDD      CRITICALITY ignore
  Req-FDD          PRESENCE      optional },
  ...
}

PRACH-ParametersListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  preambleSignatures            PreambleSignatures,
}

AllowedSlotFormatInformationList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxSF)) OF
  ProtocolIE-Container {{
  AllowedSlotFormatInformationListItemIE-CTCHreconf-Req-FDD }}

AllowedSlotFormatInformationListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
  { ID id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD
  CRITICALITY      ignore
  TYPE            AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD
  PRESENCE        mandatory },
  ...
}

AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
  slotFormat      SlotFormat
  rach-SubChannelNumbers      RACH-SubChannelNumbers      OPTIONAL
}

AICH-ParametersList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofPRACHs)) OF
  ProtocolIE-Container {{ AICH-ParametersListItemIE-CTCHreconf-Req-FDD }}

AICH-ParametersListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-ParametersListItem-CTCHreconf-Req-FDD      CRITICALITY ignore
  Req-FDD          PRESENCE      mandatory },
  ...
}

AICH-ParametersListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  aICH-Power                    DL-Power
}

-- *****
--
-- 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 ignore TYPE C-ID PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID CRITICALITY ignore TYPE ConfigurationGenerationID PRESENCE mandatory }|
  { ID id-CommonPhysicalChannelType-CTCHreconfReqTDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCHreconfReqTDD
  PRESENCE mandatory
}
}
{ ID id-FACH-ParametersList-CTCHreconfReqTTD CRITICALITY ignore TYPE FACH-ParametersList-CTCHreconfReqTTD PRESENCE optional }|
{ ID id-PCH-ParametersList-CTCHreconfReqTTD CRITICALITY ignore TYPE PCH-ParametersList-CTCHreconfReqTTD PRESENCE optional },
...
}

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

CommonPhysicalChannelType-CTCHreconfReqTDD ::= ENUMERATED {
  secondaryCCPCH SecondaryCCPCH-CTCHreconfReqTDD
}

SecondaryCCPCH-CTCHreconfReqTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  secondaryCCPCHList SecondaryCCPCHList-CTCHreconfReqTDD
}

SecondaryCCPCHList-CTCHreconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofSCCPCHs)) OF
  ProtocolIE-Container {{ SecondaryCCPCHList-CTCHreconfReqTDDItemIE}}

SecondaryCCPCHList-CTCHreconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-SecondaryCCPCHList-CTCHreconfReqTDDItem CRITICALITY ignore TYPE SecondaryCCPCHList-CTCHreconfReqTDDItem PRESENCE mandatory },
  ...
}

SecondaryCCPCHList-CTCHreconfReqTDDItem ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  pICH-Power PICH-Power
}

FACH-ParametersList-CTCHreconfReqTTD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
  ProtocolIE-Container {{ FACH-ParametersListItemIE-CTCHreconfReqTTD }}

FACH-ParametersListItemIE-CTCHreconfReqTTD NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersListItem-CTCHreconfReqTTD CRITICALITY ignore TYPE FACH-ParametersListItem-CTCHreconfReqTTD PRESENCE mandatory },
  ...
}

FACH-ParametersListItem-CTCHreconf-Req-TTD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  toAWS ToAWS OPTIONAL,
  toAWE ToAWE OPTIONAL
}

PCH-ParametersList-CTCHreconfReqTTD ::= SEQUENCE (SIZE (1..maxnoofPCHs)) OF

```



```

ProtocolIE-Container {{ PCH-ParametersListItemIE-CTCHreconfReqTTD }}

PCH-ParametersListItemIE-CTCHreconfReqTTD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersListItem-CTCHreconfReqTTD CRITICALITY ignore TYPE PCH-ParametersListItem-CTCHreconfReqTTD PRESENCE optional },
  ...
}

PCH-ParametersListItem-CTCHreconfReqTTD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  toAWS ToAWS OPTIONAL,
  toAWE ToAWE OPTIONAL
}

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

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

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

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

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

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

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

```

```

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

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

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

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

CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID          CRITICALITY ignore      TYPE C-ID          PRESENCE mandatory }|
  { ID id-CommonPhysicalChannelID      CRITICALITY ignore      TYPE CommonPhysicalChannelID      PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID     CRITICALITY ignore      TYPE ConfigurationGenerationID     PRESENCE mandatory },
  ...
}

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

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

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

CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CriticalityDiagnostic          CRITICALITY ignore      TYPE CriticalityDiagnostic      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 ignore TYPE C-ID          PRESENCE mandatory }|
    { ID id-BlockingPriorityIndicator CRITICALITY ignore TYPE BlockingPriorityIndicator PRESENCE mandatory }|
    { ID id-ShutdownTimer CRITICALITY ignore TYPE ShutdownTimer PRESENCE conditional
    },
    -- The information element is present when the Blocking Priority Indicator IE indicates 'Normal Priority'--
    ...
}

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

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

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

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

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

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

```

```

-- *****
BlockResourceFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{BlockResourceFailure-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{BlockResourceFailure-Extensions}}
    ...
}
BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cause          CRITICALITY ignore      TYPE Cause          PRESENCE mandatory }|
    { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
    },
    ...
}
BlockResourceFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

```

```

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

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

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

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

AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-ParametersList-Audit-Req  CRITICALITY ignore TYPE Cell-ParametersList-Audit-Req PRESENCE optional },
  ...
}

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

Cell-ParametersList-Audit-Req ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF
  ProtocolIE-Container {{Cell-ParametersItemIE-Audit-Req}}

Cell-ParametersItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-ParametersItem-Audit-Req  CRITICALITY ignore TYPE Cell-ParametersItem-Audit-Req PRESENCE mandatory },
  ...
}

Cell-ParametersItem-Audit-Req ::= SEQUENCE {
  c-ID          C-ID,
  configurationGenerationID ConfigurationGenerationID
}

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

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

```

```

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

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationList-Audit-Res          CRITICALITY ignore TYPE Cell-InformationList-Audit-Res PRESENCE optional }|
    { ID id-CommunicationControlPort-InformationList-Audit-Res          CRITICALITY ignore TYPE CommunicationControlPort-
InformationList-Audit-Res          PRESENCE optional }
}|
    { ID id-Cell-InformationList-Audit-Res          CRITICALITY ignore TYPE Cell-InformationList-Audit-Res PRESENCE optional }|
    { ID id-CriticalityDiagnostic          CRITICALITY ignore TYPE CriticalityDiagnostic          PRESENCE optional
    },
    ...
}

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

Cell-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxUCIDinNodeB)) OF
    ProtocolIE-Container {{Cell-InformationItemIE-Audit-Res }}

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

Cell-InformationItem-Audit-Res ::= SEQUENCE {
    c-ID          C-ID,
    resourceOperationState          ResourceOperationState,
    availabilityStatus          AvailabilityStatus,
    maximumDLPowerCapability          MaximumDLPowerCapability,
    -- to do
    minimumSpreadingFactor          MinimumSpreadingFactor,
    -- to do
    primary-SCH-Information          P-SCH-Information-Audit-Res OPTIONAL,
    secondary-SCH-Information          S-SCH-Information-Audit-Res OPTIONAL,
    primary-CPICH-Information          P-CPICH-Information-Audit-Res OPTIONAL,
    secondary-CPICH-Information          S-CPICH-Information-Audit-Res OPTIONAL,
    primary-CCPCH-Information          P-CCPCH-Information-Audit-Res OPTIONAL,
    bCH-Information          BCH-Information-Audit-Res OPTIONAL,
    secondary-CCPCH-Information          S-CCPCH-Information-Audit-Res OPTIONAL,
    pCH-InformationList          PCH-InformationList-Audit-Res OPTIONAL,
    pICH-Information          PICH-Information-Audit-Res OPTIONAL,
    fACH-InformationList          FACH-InformationList-Audit-Res OPTIONAL,
    pRACH-InformationList          PRACH-InformationList-Audit-Res OPTIONAL,
    rACH-InformationList          RACH-InformationList-Audit-Res OPTIONAL,
    aICH-InformationList          AICH-InformationList-Audit-Res OPTIONAL,
    sCH-InformationList          SCH-InformationList-Audit-Res OPTIONAL,
    pSCH-InformationList          PSCH-InformationList-Audit-Res OPTIONAL,
    communicationControlPortInformation          CommunicationControlPortInformation-Audit-Res          OPTIONAL,
    local-CellInformation          Local-CellInformation-Audit-Res          OPTIONAL
}

```

```

}

P-SCH-Information-Audit-Res ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

S-SCH-Information-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID     CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

P-CPICH-Information-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID     CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

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

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

S-CPICH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

P-CCPCH-Information-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID     CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

BCH-Information-Audit-Res ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

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

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

```

```

}

S-CCPCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

PCH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxPCHCell)) OF
    ProtocolIE-Container {{PCH-InformationItemIE-Audit-Res }}

PCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-InformationItem-Audit-Res    CRITICALITY ignore  TYPE PCH-InformationItem-Audit-Res  PRESENCE mandatory
    },
    ...
}

PCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

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

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

FACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

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

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

PRACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

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

```



```

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

RACH-InformationItem-Audit-Res ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  resourceOperationState        ResourceOperationState,
  availabilityStatus            AvailabilityStatus
}

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

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

AICH-InformationItem-Audit-Res ::= SEQUENCE {
  CommonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationState        ResourceOperationState,
  availabilityStatus            AvailabilityStatus
}

SCH-InformationItem-Audit-Res ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationState        ResourceOperationState,
  availabilityStatus            AvailabilityStatus
}

RACH-InformationItem-Audit-Res ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationState        ResourceOperationState,
  availabilityStatus            AvailabilityStatus
}

CommunicationControlPort-InformationList-Audit-Res ::=SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
  ProtocolIE-Container {{CommunicationControlPort-InformationItemIE }}

CommunicationControlPort-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  {ID id-CommunicationControlPort-InformationItem-Audit-Res  CRITICALITY ignore  TYPE CommunicationControlPort-
  InformationItem-Audit-Res      PRESENCE  mandatory
  },
}

CommunicationControlPort-InformationItem-Audit-Res ::= SEQUENCE {
  communicationControlPortID  CommunicationControlPortID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus
}

LocalCell-InformationList-Audit-Res ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
  ProtocolIE-Container {{LocalCell-InformationItemIE-Audit-Res}}

```

```

LocalCell-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-LocalCell-InformationItem-Audit-Res CRITICALITY ignore TYPE LocalCell-InformationItem-Audit-Res PRESENCE mandatory },
  ...
}

LocalCell-InformationItem-Audit-Res ::= SEQUENCE {
  localCellID LocalCellID,
  numberOfChannelElements NumberOfChannelElements OPTIONAL,
  maximumDLPowerCapability MaximumDLPowerCapability OPTIONAL
}

-- *****
--
-- 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 ignore TYPE MeasurementID PRESENCE mandatory }|
  { ID id-CommonMeasurementObjectType-CMeasureInitReq CRITICALITY ignore TYPE CommonMeasurementObjectType-CMeasureInitReq PRESENCE mandatory }|
  { ID id-CommonMeasurementType CRITICALITY ignore TYPE CommonMeasurementType PRESENCE mandatory }|
  { ID id-MeasurementCharacteristics CRITICALITY ignore TYPE MeasurementCharacteristics PRESENCE mandatory }|
  { ID id-ReportCharacteristics CRITICALITY ignore TYPE ReportCharacteristics PRESENCE mandatory },
  ...
}

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

CommonMeasurementObjectType-CMeasureInitReq ::= ENUMERATED {
  cell Cell-CMeasureInitReq,
  rACH RACH-CMeasureInitReq
}

Cell-CMeasureInitReq ::= SEQUENCE {
  c-ID C-ID,
  timeSlot TimeSlot
}

RACH-CMeasureInitReq ::= SEQUENCE {
  c-ID C-ID,
  commonTransportChannelID CommonTransportChannelID
}

```

```

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

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

...

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

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

CommonMeasurementObjectType-Res ::= CHOICE {
    cell          Cell-CommonMeasurement-Res,
    RACH          RACH-CommonMeasurement-Res
}

Cells-CommonMeasurement-Req ::= SEQUENCE {
    commonMeasurementValue CommonMeasurementValue
}

RACH-CommonMeasurement-Req ::= SEQUENCE {
    commonMeasurementValue CommonMeasurementValue
}

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

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

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

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

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

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

CommonMeasurementObjectType-Rep ::= ENUMERATED {
  cell          Cell-CommonMeasurement-Rep,
  RACH          RACH-CommonMeasurement-Rep
}

Cell-CommonMeasurement-Rep ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue
}

RACH-CommonMeasurement-Rep ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue
}

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

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-LocalCell-ID          CRITICALITY ignore  TYPE LocalCell-ID          PRESENCE mandatory }|
  { ID id-C-ID                  CRITICALITY ignore  TYPE C-ID                    PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID  CRITICALITY ignore  TYPE ConfigurationGenerationID  PRESENCE mandatory }|
  { ID id-T-Cell                CRITICALITY ignore  TYPE T-Cell                    PRESENCE mandatory }|
  { ID id-UARFCN                CRITICALITY ignore  TYPE UARFCN                    PRESENCE mandatory }|
  { ID id-MaximumTransmissionPower  CRITICALITY ignore  TYPE MaximumTransmissionPower  PRESENCE mandatory }|
  { ID id-PrimaryScramblingCode     CRITICALITY ignore  TYPE PrimaryScramblingCode     PRESENCE mandatory }|
  { ID id-PrimarySCH-Information-Cellsetup-Req  CRITICALITY ignore  TYPE PrimarySCH-Information-Cellsetup-Req  PRESENCE mandatory }|
  { ID id-SecondarySCH-Information-Cellsetup-Req  CRITICALITY ignore  TYPE SecondarySCH-Information-Cellsetup-Req  PRESENCE mandatory }|
  { ID id-PrimaryCPICH-Information-Cellsetup-Req  CRITICALITY ignore  TYPE PrimaryCPICH-Information-Cellsetup-Req  PRESENCE mandatory }|
  { ID id-SecondaryCPICH-Information-Cellsetup-Req  CRITICALITY ignore  TYPE SecondaryCPICH-Information-Cellsetup-Req  PRESENCE optional }|
  { ID id-PrimaryCCPCH-Information-Cellsetup-Req  CRITICALITY ignore  TYPE PrimaryCCPCH-Information-Cellsetup-Req  PRESENCE mandatory }|
  ...
}

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

PrimarySCH-Information-Cellsetup-Req ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  primarySCH-Power         DL-Power,
  tSTD-Indicator           TSTD-Indicator
}

SecondarySCH-Information-Cellsetup-Req ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  secondarySCH-Power       DL-Power,
  transmitDiversityIndication  TransmitDiversityIndication
}

PrimaryCPICH-Information-Cellsetup-Req ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  primaryCPICH-Power       DL-Power,
  sTTD-Indicator           STTD-Indicator
}

SecondaryCPICH-Information-Cellsetup-Req ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  dl-ScramblingCode        DL-ScramblingCode,
  secondaryCPICH-Power     DL-Power,
  transmitDiversityIndication  TransmitDiversityIndication
}

PrimaryCCPCH-Information-Cellsetup-Req ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  bCH-information-Cellsetup-Req  BCH-Information-PrimCCPCH-Cellsetup-Req,
  sTTD-Indicator           STTD-Indicator
}

```

```

BCH-Information-PrimCCPCH-Cellsetup-Req ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    bCH-Power                   DL-Power
}

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

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

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-LocalCell-ID          CRITICALITY ignore TYPE LocalCell-ID          PRESENCE mandatory }|
    { ID id-C-ID                  CRITICALITY ignore TYPE C-ID                  PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY ignore TYPE ConfigurationGenerationID PRESENCE mandatory }|
    { ID id-UARFCN                CRITICALITY ignore TYPE UARFCN                PRESENCE mandatory }|
    { ID id-Cell-Parameter-ID     CRITICALITY ignore TYPE Cell-Parameter-ID     PRESENCE mandatory }|
    { ID id-MaximumTransmissionPower CRITICALITY ignore TYPE MaximumTransmissionPower PRESENCE optional }|
    { ID id-TransmissionDiversityApplied CRITICALITY ignore TYPE TransmissionDiversityApplied PRESENCE mandatory }|
    { ID id-SyncCase              CRITICALITY ignore TYPE TransmissionDiversityApplied PRESENCE mandatory }|
    { ID id-PSCH-Information-CellsetupReqTDD CRITICALITY ignore TYPE PSCH-Information-CellsetupReqTDD PRESENCE mandatory }|
    { ID id-PCCPCH-Information-CellsetupReqTDD CRITICALITY ignore TYPE PCCPCH-Information-CellsetupReqTDD PRESENCE mandatory }|
    { ID id-TimeSlotConfigurationList-CellsetupReqTDD CRITICALITY ignore TYPE TimeSlotConfigurationList-CellsetupReqTDD PRESENCE mandatory }
},
    ...
}

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

PSCH-Information-CellsetupReqTDD ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    syncCaseIndicator          SyncCaseIndicator-CellsetupReqTDD,
    pSCH-Power                 DL-Power,
    tSTD-Indicator             TSTD-Indicator
}

SyncCaseIndicator-CellsetupReqTDD ::= ENUMERATED {
    case1                      Case1-CellsetupReqTDD,
    case2andCcase3            Case2andCase3-CellsetupReqTDD
}

Case1-CellsetupReqTDD ::= SEQUENCE {
    timeSlot                   TimeSlot
}

```

```

}

Case2andCase3-CellsetupReqTDD ::= SEQUENCE {
    PSCH-TimeSlot      PSCH-TimeSlot
}

PCCPCH-Information-CellsetupReqTDD ::= SEQUENCE {
    syncCaseIndicator      SyncCaseIndicator-CellsetupReqTDD2,
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    pCCPCH-Power          DL-Power,
    tSTD-Indicator        TSTD-Indicator
}

SyncCaseIndicator-CellsetupReqTDD2 ::= ENUMERATED {
    case3                Case3-CellsetupReqTDD
}

Case3-CellsetupReqTDD ::= SEQUENCE {
    timeSlot              TimeSlot
}

TimeSlotConfigurationList-CellsetupReqTDD ::= SEQUENCE (SIZE (1..15)) OF
    ProtocolIE-Container{{TimeSlotConfigurationList-CellsetupReqTDD ItemIE }}

TimeSlotConfigurationList-CellsetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-TimeSlotConfigurationList-CellsetupReqTDDItem      CRITICALITY ignore
    CellsetupReqTDDItem      PRESENCE      mandatory
    },
    ...
}

TimeSlotConfigurationList-CellsetupReqTDDItem ::= SEQUENCE {
    timeSlot              TimeSlot,
    timeSlotStatus        TimeSlotStatus,
    timeSlotDirection     TimeSlotDirection
}

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

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

CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostic      CRITICALITY ignore      TYPE CriticalityDiagnostic      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-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic 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 ignore TYPE C-ID          PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID CRITICALITY ignore TYPE ConfigurationGenerationID PRESENCE mandatory }|
  { ID id-MaximumTransmissionPower CRITICALITY ignore TYPE MaximumTransmissionPower PRESENCE optional }|
  { ID id-PrimarySCH-Information-Cellreconf-Req CRITICALITY ignore TYPE PrimarySCH-Information-Cellreconf-Req PRESENCE optional }|
  { ID id-SecondarySCH-Information-Cellreconf-Req CRITICALITY ignore TYPE SecondarySCH-Information-Cellreconf-Req PRESENCE optional }|
  { ID id-PrimaryCPICH-Information-Cellreconf-Req CRITICALITY ignore TYPE PrimaryCPICH-Information-Cellreconf-Req PRESENCE optional }|
  { ID id-SecondaryCPICH-Information-Cellreconf-Req CRITICALITY ignore TYPE SecondaryCPICH-Information-Cellreconf-
  Req          PRESENCE optional
  }|
  { ID id-PrimaryCCPCH-Information-Cellreconf-Req CRITICALITY ignore TYPE PrimaryCCPCH-Information-Cellreconf-Req PRESENCE optional },

```

```

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

PrimarySCH-Information-Cellreconf-Req ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
primarySCH-Power              DL-Power
}

SecondarySCH-Information-Cellreconf-Req ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
secondarySCH-Power           DL-Power
}

PrimaryCPICH-Information-Cellreconf-Req ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
primaryCPICH-Power           DL-Power
}

SecondaryCPICH-Information-Cellreconf-Req ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,    secondaryCPICH-Power           DL-Power
}

PrimaryCCPCH-Information-Cellreconf-Req ::= SEQUENCE {
bCH-information              BCH-information-Cellreconf-Req
}

BCH-Information-Cellreconf-Req ::= SEQUENCE {
commonTransportChannelID     CommonTransportChannelID,
bCH-Power                    DL-Power
}

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

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

CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-LocalCell-ID          CRITICALITY ignore TYPE LocalCell-ID          PRESENCE mandatory }|
{ ID id-C-ID                  CRITICALITY ignore TYPE C-ID                  PRESENCE mandatory }|
{ ID id-ConfigurationGeneration-ID CRITICALITY ignore TYPE ConfigurationGeneration-ID PRESENCE optional }|
{ ID id-MaximumTransmissionPower CRITICALITY ignore TYPE MaximumTransmissionPower PRESENCE optional }|
{ ID id-PSCH-Information-CellReconfReq CRITICALITY ignore TYPE PSCH-Information-CellReconfReq PRESENCE optional }|
}

```

```

    { ID id-PCCPCH-Information-CellReconfReq    CRITICALITY ignore    TYPE PCCPCH-Information-CellReconfReq    PRESENCE optional }|
    { ID id-TimeSlotConfigurationList-CellReconfReq CRITICALITY ignore    TYPE TimeSlotConfigurationList-CellReconfReq    PRESENCE mandatory },
    ...
}

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

PSCH-Information-CellReconfReq ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    pSCH-Power                PSCH-Power
}

PCCPCH-Information-CellReconfReq ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    pCCPCH-Power              PCCPCH-Power
}

TimeSlotConfigurationList-CellReconfReq ::= SEQUENCE (SIZE (1..15)) OF
    ProtocolIE-Container {{TimeSlotConfiguration-CellReconfReqItemIE }}

    TimeSlotConfiguration-CellReconfReqItemIE NBAP-PROTOCOL-IES ::= {
        { I D id-TimeSlotConfiguration-CellReconfReqItem    CRITICALITY    ignore    TYPE    TimeSlotConfiguration-CellReconfReqItem
        PRESENCE    mandatory
    },
    ...
}

TimeSlotConfiguration-CellReconfReqItem ::= SEQUENCE {
    timeSlot                TimeSlot,
    timeSlotStatus          TimeSlotStatus,
    timeSlotDirection       TimeSlotDirection
}

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

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

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

```

```

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

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

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

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

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

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

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

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

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

-- *****

```

```

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

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

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

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

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

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

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

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

IndicationType ::= ENUMERATED {
    no-Failure          No-Failure,
    serviceImpacting   ServiceImpacting
}

No-Failure ::= SEQUENCE {
    local-CellInformationList-ResourceStatInd          Local-CellInformationList-ResourceStatInd
}

```

```
Local-CellInformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
  ProtocolIE-Container {{Local-CellInformation-ResourceStatIndItemIE}}
```

```
Local-CellInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Local-CellInformation-ResourceStatIndItem CRITICALITY ignore TYPE Local-CellInformation-ResourceStatIndItem PRESENCE mandatory
  },
  ...
}
```

```
Local-CellInformation-ResourceStatIndItem ::= SEQUENCE {
  local-CellID Local-CellID,
  addOrDeleteIndicator AddOrDeleteIndicator,
  numberOfChannelElements NumberOfChannelElements,
  maximum-DL-PowerCapability Maximum-DL-PowerCapability
}
```

```
ServiceImpacting ::= SEQUENCE {
  local-Cell-InformationList-ResourceStatInd Local-Cell-InformationList-ResourceStatInd OPTIONAL,
  communicationControlPortInformationList-ResourceStatInd
  communicationControlPortInformationList-ResourceStatInd OPTIONAL,
  cell-InformationList-ResourceStatInd Cell-InformationList-ResourceStatInd OPTIONAL,
  primary-SCH-Information P-SCH-Information-Audit-Res OPTIONAL,
  secondary-SCH-Information S-SCH-Information-Audit-Res OPTIONAL,
  primary-CPICH-Information P-CPICH-Information-Audit-Res OPTIONAL,
  secondary-CPICH-Information S-CPICH-Information-Audit-Res OPTIONAL,
  primary-CCPCH-Information P-CCPCH-Information-Audit-Res OPTIONAL,
  bCH-InformationItem-ResourceStatInd BCH-InformationItem-ResourceStatInd OPTIONAL,
  secondary-CCPCH-Information S-CCPCH-Information-Audit-Res OPTIONAL,
  pCH-InformationList-ResourceStatInd PCH-InformationList-ResourceStatInd OPTIONAL,
  pICH-InformationItem-ResourceStatInd PICH-InformationItem-ResourceStatInd OPTIONAL,
  fACH-InformationList-ResourceStatInd FACH-InformationList-ResourceStatInd OPTIONAL,
  prACH-InformationList PRACH-InformationList-Audit-Res OPTIONAL,
  rACH-InformationList-ResourceStatInd RACH-InformationList-ResourceStatInd OPTIONAL,
  aICH-InformationList-ResourceStatInd AICH-InformationList-ResourceStatInd OPTIONAL,
  sCH-InformationList-ResourceStatInd SCH-InformationList-ResourceStatInd OPTIONAL,
  psCH-InformationList PSCH-InformationList-Audit-Res OPTIONAL,
}
```

```
Local-Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
  ProtocolIE-Container {{Local-Cell-Information-ResourceStatIndItemIE }}
```

```
Local-Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Information-ResourceStatIndItem CRITICALITY ignore TYPE Local-Cell-Information-ResourceStatIndItem PRESENCE mandatory
  },
  ...
}
```

```
Local-Cell-Information-ResourceStatIndItem ::= SEQUENCE {
  local-CellID Local-CellID,
  numberOfChannelElements NumberOfChannelElements OPTIONAL,
  maximum-DL-PowerCapability Maximum-DL-PowerCapability OPTIONAL
}
```

```

CommunicationControlPortInformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
  ProtocolIE-Container {{CommunicationControlPortInformation-ResourceStatIndItemIE }}

CommunicationControlPortInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-CommunicationControlPortInformation-ResourceStatIndItem
    CRITICALITY ignore                                TYPE CommunicationControlPortInformation-ResourceStatIndItem
    PRESENCE mandatory },
  ...
}

CommunicationControlPortInformation-ResourceStatIndItem ::= SEQUENCE {
  communicationControlPortID CommunicationControlPortID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus
}

Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF
  ProtocolIE-Container {{Cell-Information-ResourceStatIndItemIE }}

Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-Information-ResourceStatIndItem CRITICALITY ignore TYPE Cell-Information-ResourceStatIndItem PRESENCE mandatory},
  ...
}

Cell-Information-ResourceStatIndItem ::= SEQUENCE {
  c-ID C-ID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  maximumDL-PowerCapability MaximumDL-PowerCapability,
  minimumSpreadingFactor MinimumSpreadingFactor
}

P-SCH-Information-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  resourceOperationState ResourceOperationState,
  availabilityStatus AvailabilityStatus
}

S-SCH-Information-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationState ResourceOperationState,
  availabilityStatus AvailabilityStatus
}

P-CPICH-Information-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationState ResourceOperationState,
  availabilityStatus AvailabilityStatus
}

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

S-CPICH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-S-CPICH-InformationItem-ResourceStatInd      CRITICALITY ignore  TYPE S-CPICH-InformationItem-ResourceStatInd PRESENCE mandatory
  },
  ...
}

S-CPICH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  resourceOperationState        ResourceOperationState,
  availabilityStatus             AvailabilityStatus
}

P-CCPCH-Information-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID       CommonPhysicalChannelID,
  resourceOperationState         ResourceOperationState,
  availabilityStatus             AvailabilityStatus
}

BCH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID       CommonTransportChannelID,
  resourceOperationalState        ResourceOperationalState,
  availabilityStatus              AvailabilityStatus
}

PCH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxPCHinNodeB)) OF
  ProtocolIE-Container {{PCH-Information-ResourceStatIndItemIE }}

PCH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information-ResourceStatIndItem CRITICALITY ignore  TYPE PCH-Information-ResourceStatIndItem PRESENCE mandatory},
  ...
}

PCH-Information-ResourceStatIndItem ::= SEQUENCE {
  commonTransportChannelID       CommonTransportChannelID,
  resourceOperationalState        ResourceOperationalState,
  availabilityStatus              AvailabilityStatus
}

PICH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID        CommonPhysicalChannelID,
  resourceOperationalState        ResourceOperationalState,
  availabilityStatus              AvailabilityStatus
}

FACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
  ProtocolIE-Container {{FACH-Information-ResourceStatIndItemIE }}

FACH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information-ResourceStatIndItem CRITICALITY ignore  TYPE FACH-Information-ResourceStatIndItem PRESENCE mandatory},
  ...
}

FACH-Information-ResourceStatIndItem ::= SEQUENCE {
  commonTransportChannelID       CommonTransportChannelID,
  resourceOperationalState        ResourceOperationalState,

```



```

    availabilityStatus      AvailabilityStatus
  }

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

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

PRACH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationState      ResourceOperationState,
  availabilityStatus      AvailabilityStatus
}

RACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
  ProtocolIE-Container {{RACH-Information-ResourceStatIndItemIE }}

RACH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information-ResourceStatIndItem      CRITICALITY ignore  TYPE RACH-Information-ResourceStatIndItem  PRESENCE mandatory},
  ...
}

RACH-Information-ResourceStatIndItem ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus      AvailabilityStatus
}

AICH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxAICHCell)) OF
  ProtocolIE-Container {{AICH-Information-ResourceStatIndItemIE }}

AICH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information-ResourceStatIndItem      CRITICALITY ignore  TYPE AICH-Information-ResourceStatIndItem  PRESENCE mandatory},
  ...
}

AICH-Information-ResourceStatIndItem ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus      AvailabilityStatus
}

SCH-Information-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  resourceOperationalState      ResourceOperationalState,
  availabilityStatus      AvailabilityStatus
}

PSCH-Information-ResourceStatInd ::= SEQUENCE {

```

```

    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus
}

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

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

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

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

MIB-SIB-InformationList-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIB)) OF
    ProtocolIE-Container{{ MIB-SIB-InformationList-SystemInfoUpdateItemIE }}

MIB-SIB-InformationList-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-MIB-SIB-InformationList-SystemInfoUpdateItem CRITICALITY ignore      TYPE MIB-SIB-InformationList-SystemInfoUpdateItem
PRESENCE optional
},
    ...
}

MIB-SIB-InformationList-SystemInfoUpdateItem ::= SEQUENCE {
    iB-Type                IB-Type,
    sIB-DeletionIndicator  SIB-DeletionIndicator-SystemInfoUpdate
}

SIB-DeletionIndicator-SystemInfoUpdate ::= ENUMERATED {
    no-Delition            No-Delitionist-SystemInfoUpdate
}

No-DelitionList-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
    ProtocolIE-Container{{ No-DelitionList-SystemInfoUpdateItemIE }}

No-DelitionList-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID id- No-DelitionList-SystemInfoUpdate  CRITICALITY ignore  TYPE No-DelitionList-SystemInfoUpdate  PRESENCE optional },
    ...
}

No-DelitionList-SystemInfoUpdate ::= SEQUENCE {
    sIB-Originator          sIB-Originator          OPTIONAL,
    segmentInformation      SegmentInformation-SystemInfoUpdate
}

SegmentInformation-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
    ProtocolIE-Container{{ SegmentInformation-SystemInfoUpdateItemIE }}

SegmentInformation-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
    { ID id- SegmentInformation-SystemInfoUpdateItem  CRITICALITY ignore  TYPE SegmentInformation-SystemInfoUpdateItem  PRESENCE
    optional
    },
    ...
}

SegmentInformation-SystemInfoUpdateItem ::= SEQUENCE {
    segmentType            SegmentType,
    iB-SG-REP              IB-SG-REP,
    iB-SG-POS              IB-SG-POS,
    iB-SG                  IB-SG          OPTIONAL
}

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

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

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

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

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

```

```

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

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

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

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

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

RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
    { ID id-UL-DPCH-InformationItem-RL-SetupReq-FDD CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupReq-FDD PRESENCE mandatory }|
    { ID id-DL-DPCH-InformationItem-RL-SetupReq-FDD CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupReq-FDD PRESENCE mandatory }|
    { ID id-DCH-InformationList-RL-SetupReq-FDD CRITICALITY ignore TYPE DCH-InformationList-RL-SetupReq-FDD PRESENCE mandatory }|
    { ID id-RL-ID          CRITICALITY ignore TYPE RL-ID          PRESENCE optional }|
    { ID id-DSCH-ID          CRITICALITY ignore TYPE DSCH-ID          PRESENCE optional }|
    { ID id-DSCH-InformationList-RL-SetupReq-FDD CRITICALITY ignore TYPE DSCH-InformationList-RL-SetupReq-FDD PRESENCE optional }|
    { ID id-RL-InformationList-RL-SetupReq-FDD CRITICALITY ignore TYPE RL-InformationList-RL-SetupReq-FDD PRESENCE mandatory }|
    ...
}

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

UL-DPCH-InformationItem-RL-SetupReq-FDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
    maxNumberOfUL-DPDCHs        MaxNumberOfUL-DPDCHs OPTIONAL
    -- This IE is present only if "Min UL Channelisation Code length" equals to 4 -- ,

```

```

    ul-PunctureLimit          UL-PunctureLimit,
    transportFormatCombinationSet TransportFormatCombinationSet,
    ul-DPCCH-SlotFormat       UL-DPCCH-SlotFormat,
    ul-EbNo-Target            UplinkEbNo,
    diversityMode              DiversityMode,
    d-FieldLength              D-FieldLength          OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    sSDT-Cell-IDLength         SSDT-Cell-IDLength     OPTIONAL,
    s-FieldLength              S-FieldLength          OPTIONAL
}

DL-DPCH-InformationItem-RL-SetupReq-FDD ::= SEQUENCE {
    transportFormatCombinationSet TransportFormatCombinationSet,
    dl-DPCH-SlotFormat           DL-DPCH-SlotFormat,
    tFCI-SignallingMode          TFCI-SignallingMode,
    multiplexingPosition,        MultiplexingPosition,
    tFCI-Presence                 TFCI-Presence,
    powerOffsetInformationItem-RL-SetupReq-FDD
        PowerOffsetInformationItem-RL-SetupReq-FDD,
    deltaTPC                       DeltaTPC
}

PowerOffsetInformationItem-RL-SetupReq-FDD ::= SEQUENCE {
    p01          PowerOffset,
    p02          PowerOffset,
    p03          PowerOffset
}

DCH-InformationList-RL-SetupReq-FDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container{{DCH-Information-RL-SetupReq-FDDItemIE }}

DCH-Information-RL-SetupReq-FDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Information-RL-SetupReq-FDDItem CRITICALITY ignore TYPE DCH-Information-RL-SetupReq-FDDItem PRESENCE mandatory },
    ...
}

DCH-Information-RL-SetupReq-FDDItem ::= SEQUENCE {
    dCH-ID          DCH-ID,
    dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
    rLC-Mode        RLC-Mode,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode       UL-FP-Mode,
    toAWS            ToAWS,
    toAWE            ToAWE
}

DSCH-InformationList-RL-SetupReq-FDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container{{DSCH-Information-RL-SetupReq-FDDItemIE }}

DSCH-Information-RL-SetupReq-FDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Information-RL-SetupReq-FDDItem CRITICALITY ignore TYPE DSCH-Information-RL-SetupReq-FDDItem PRESENCE mandatory },

```

```

}
...
}
DSCH-Information-RL-SetupReq-FDDItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    dSCH-TransportFormatSet  DSCH-TransportFormatSet,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS            ToAWS,
    toAWE            ToAWE
}

RL-InformationList-RL-SetupReq-FDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container{{RL-Information-RL-SetupReq-FDDItemIE }}

RL-Information-RL-SetupReq-FDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-SetupReq-FDDItem  CRITICALITY ignore  TYPE RL-Information-RL-SetupReq-FDDItem  PRESENCE optional },
    ...
}

RL-Information-RL-SetupReq-FDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    c-ID          C-ID,
    frameOffset    FrameOffset,
    chipOffset     ChipOffset,
    propagationDelay  PropagationDelay,
    diversityControlField  DiversityControlField  OPTIONAL,
    -- This IE is present only if the RL is not the first one in the RL Information
    dl-CodeInformationList-RL-SetupReqFDD          DL-CodeInformationList-RL-SetupReqFDD,
    initialDL-transmissionPower  DL-Power,
    maximumDL-power              DL-Power,
    minimumDL-power              DL-Power,
    sSDT-CellIdentity            SSdT-CellIdentity  OPTIONAL
}

DL-CodeInformationList-RL-SetupReqFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container{{DL-CodeInformation-RL-SetupReqFDDItemIE }}

DL-CodeInformation-RL-SetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformation-RL-SetupReqFDDItem  CRITICALITY ignore  TYPE DL-CodeInformation-RL-SetupReqFDDItem  PRESENCE optional },
    ...
}

DL-CodeInformation-RL-SetupReqFDDItem ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber
}

-- *****
--
-- 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 ignore  TYPE CRNC-CommunicationContextID    PRESENCE mandatory } |
  { ID id-UL-CCTrCH-InformationList-RL-SetupReqTDD  CRITICALITY ignore  TYPE UL-CCTrCH-InformationList-RL-SetupReqTDD  PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationList-RL-SetupReqTDD  CRITICALITY ignore  TYPE DL-CCTrCH-InformationList-RL-SetupReqTDD  PRESENCE optional } |
  { ID id-DCH-InformationList-RL-SetupReqTDD  CRITICALITY ignore  TYPE DCH-InformationList-RL-SetupReqTDD  PRESENCE optional } |
  { ID id-DSCH-InformationList-RL-SetupReqTDD  CRITICALITY ignore  TYPE DSCH-InformationList-RL-SetupReqTDD  PRESENCE optional } |
  { ID id-USCH-InformationList-RL-SetupReqTDD  CRITICALITY ignore  TYPE USCH-InformationList-RL-SetupReqTDD  PRESENCE optional } |
  { ID id-RL-InformationItem-RL-SetupReqTDD  CRITICALITY ignore  TYPE RL-InformationItem-RL-SetupReqTDD  PRESENCE mandatory },
  ...
}

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

UL-CCTrCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE(1..maxnoofCCTrCHs)) OF
  ProtocolIE-Container{{UL-CCTrCH-Information-RL-SetupReqTDDItemIE }}

UL-CCTrCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE UL-CCTrCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
  ...
}

UL-CCTrCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  cCCTrCH-ID          CCTrCH-ID,
  transportFormatCombinationSet  TransportFormatCombinationSet,
  tFCI-Coding         TFCI-Coding,
  puncturing-Limit   Puncturing-Limit,
  ul-DPCH-InformationList-RL-SetupReqTDD          UL-DPCH-InformationList-RL-SetupReqTDD  OPTIONAL
}

UL-DPCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
  ProtocolIE-Container{{UL-DPCH-Information-RL-SetupReqTDDItemIE }}

UL-DPCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE UL-DPCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
  ...
}

UL-DPCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  dpch-ID          DPCH-ID,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  burstType          BurstType,
  midambleShift      MidambleShift,
  timeSlot           TimeSlot,
  tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
}

```

```

    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tFCI-Presence         TFCI-Presence
}

DL-CCTrCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoCCTrCHs)) OF
    ProtocolIE-Container{{DL-CCTrCH-Information-RL-SetupReqTDDItemIE }}

DL-CCTrCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE DL-CCTrCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
    ...
}

DL-CCTrCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
    cCTrCH-ID              CCTrCH-ID,
    transportFormatCombinationSet TransportFormatCombinationSet,
    tFCI-Coding            TFCI-Coding,
    puncturing-Limit      Puncturing-Limit,
    dl-DPCH-InformationList-RL-SetupReqTDD DL-DPCH-InformationList-RL-SetupReqTDD OPTIONAL
}

DL-DPCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
    ProtocolIE-Container{{DL-DPCH-Information-RL-SetupReqTDDItemIE }}

DL-DPCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE DL-DPCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
    ...
}

DL-DPCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
    dpch-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence          TFCI-Presence
}

DCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
    ProtocolIE-Container{{DCH-Information-RL-SetupReqTDDItemIE }}

DCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE DCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
    ...
}

DCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
    ul-CCTrCH-ID           UL-CCTrCH-ID,
    dl-CCTrCH-ID           DL-CCTrCH-ID,
    dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
    ul-TransportFormatSet   TransportFormatSet,
}

```



```

dl-TransportFormatSet      TransportFormatSet,
frameHandlingPriority      FrameHandlingPriority,
payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
ul-FP-Mode                UL-FP-Mode,
toAWE                    ToAWE,
toAWS                    ToAWS
}

DSCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
  ProtocolIE-Container{{DSCH-Information-RL-SetupReqTDDItemIE}}

DSCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  {ID id-DCH-Information-RL-SetupReqTDDItem  CRITICALITY ignore  TYPE      DSCH-Information-RL-SetupReqTDDItem  PRESENCE mandatory}
  ...
}

DSCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  dsch-ID                DSCH-ID,
  cctrch-ID              Cctrch-ID,
  transportFormatSet    TransportFormatSet,
  frameHandlingPriority  FrameHandlingPriority,
  toAWE                  ToAWE,
  toAWS                  ToAWS
}

USCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  ProtocolIE-Container{{USCH-Information-RL-SetupReqTDDItemIE}}

USCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  {ID id-USCH-Information-RL-SetupReqTDDItem  CRITICALITY ignore  TYPE      USCH-Information-RL-SetupReqTDDItem  PRESENCE mandatory}
  ...
}

USCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  usch-ID                USCH-ID,
  cctrch-ID              Cctrch-ID,
  transportFormatSet    TransportFormatSet
}

RL-Information-RL-SetupReqTDD ::= SEQUENCE {
  rl-ID                RL-ID,
  c-ID                C-ID,
  tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
  initialDL-transmissionPower  DL-Power,
  maximumDL-power            DL-Power,
  minimumDL-power            DL-Power
}

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

```

```

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

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

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

RL-InformationResponseList-RL-setupResFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container{{RL-InformationResponse-RL-setupResFDDItemIE }}

RL-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-setupResFDDItem    CRITICALITY ignore    TYPE RL-InformationResponse-RL-setupResFDDItem    PRESENCE mandatory
    },
    ...
}

RL-InformationResponse-RL-setupResFDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    ul-InterferenceLevel    UL-InterferenceLevel,
    diversityIndication    DiversityIndication OPTIONAL,
    -- This IE is present only if the RL is not the first one in the RL Information
    dSCH-InformationResponse-RL-setupResFDD    DSCH-InformationResponse-RL-setupResFDD    OPTIONAL,
    sSDT-SupportIndicator    SSdT-SupportIndicator
}

DiversityIndication ::= ENUMERATED {
    combining          CombiningItem,
    non-Combining      Non-CombiningItem
}

CombiningItem ::= SEQUENCE {
    dCH-ID          DCH-ID
}

Non-CombiningItem ::= SEQUENCE {
    dCH-InformationResponse-RL-setupResFDD    DCH-InformationResponse-RL-setupResFDD    OPTIONAL
}

DCH-InformationResponseList-RL-setupResFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF

```

```

ProtocolIE-Container{{DCH-InformationResponse-RL-setupResFDDItemIE }}
DCH-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponse-RL-setupResFDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-setupResFDDItem PRESENCE mandatory
    },
  ...
}
DCH-InformationResponse-RL-setupResFDDItem ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress
}
DSCH-InformationResponseList-RL-setupResFDD ::= SEQUENCE (SIZE (1..numofDSCH)) OF
  ProtocolIE-Container{{DSCH-InformationResponse-RL-setupResFDDItemIE }}
-- ** TODO **
numofDSCH INTEGER ::= 10
DSCH-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponse-RL-setupResFDDItem CRITICALITY ignore TYPE DSCH-InformationResponse-RL-setupResFDDItem
    PRESENCE mandatory
    },
  ...
}
DSCH-InformationResponse-RL-setupResFDDItem ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress
}
-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****
RadioLinkSetupResponseTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}} OPTIONAL,
  ...
}
RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
  { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory }|
  { ID id-CommunicationControlPortID CRITICALITY ignore TYPE CommunicationControlPortID PRESENCE mandatory }|
  { ID id-RL-Information-RL-setupResTDD CRITICALITY ignore TYPE RL-Information-RL-setupResTDD PRESENCE mandatory }|
  {ID id-DSCH-InformationResponseList-RL-setupResTDD CRITICALITY ignore TYPE DSCH-InformationResponseList-RL-setupResTDD PRESENCE
  optional
  }|
}

```

```

{ID id-USCH-InformationResponseList-RL-setupResTDD CRITICALITY ignore TYPE USCH-InformationResponseList-RL-setupResTDD PRESENCE
optional
}|
{ ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
},
...
}

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

RL-InformationResponseList-RL-setupResTDD ::= SEQUENCE {
rL-ID RL-ID,
ul-InterferenceLevel UL-InterferenceLevel,
dCH-InformationResponseList-RL-setupResTDD DCH-InformationResponseList-RL-setupResTDD
}

DCH-InformationResponseList-RL-setupResTDD ::= SEQUENCE (SIZE (1..maxnumofDCHs)) OF ProtocolIE-Container{{DCH-InformationResponse-RL-
setupResTDDItemIE }}

DCH-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
{ I D id-DCH-InformationResponse-RL-setupResTDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-setupResTDDItem PRESENCE
mandatory
},
...
}

DCH-InformationResponse-RL-setupResTDDItem ::= SEQUENCE {
dCH-ID DCH-ID,
bindingID BindingID,
transportLayerAddress TransportLayerAddress
}

DSCH-InformationResponseList-RL-SetupResTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF ProtocolIE-Container{{DSCH-InformationResponse-RL-
SetupResTDDItemIE}}

DSCH-Informationresponse-RL-SetupResTDDItemIE NBAP-PROTOCOL-IES ::= {
{ID id-DCH-InformationResponse-RL-SetupResTDDItem CRITICALITY ignore TYPE DSCH-Informationresponse-RL-SetupReqTDDItem PRESENCE
mandatory
},
...
}

DSCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
dSCH-ID DSCH-ID,
binding-ID Binding-ID,
transport-Layer-Address Transport-Layer-Address
}

USCH-InformationResponseList-RL-SetupResTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF ProtocolIE-Container{{USCH-InformationResponse-RL-
SetupResTDDItemIE}}

```

```

USCH-Informationresponse-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationResponse-RL-SetupReqTDDItem CRITICALITY ignore TYPE USCH-InformationResponse-RL-SetupReqTDDItem PRESENCE
  mandatory
  }
  ...
}

USCH-InformationResponse-RL-SetupReqTDDItem ::= SEQUENCE {
  uSCH-ID USCH-ID,
  binding-ID Binding-ID,
  transport-Layer-Address Transport-Layer-Address
}

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

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

RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
  { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory }|
  { I D id-CommunicationControlPortID CRITICALITY ignore
  TYPE CommunicationControlPortID PRESENCE mandatory }|
  { ID id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD
  CRITICALITY ignore TYPE Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD
  PRESENCE mandatory }|
  { ID id-Successful-RL-InformationResponseList-RL-SetupFailFDD
  CRITICALITY ignore TYPE Successful-RL-InformationResponseList-RL-SetupFailFDD
  PRESENCE optional }|
  { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
  },
  ...
}

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

Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
ProtocolIE-Container {{Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItemIE }}

Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem
  CRITICALITY ignore TYPE Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem
  PRESENCE optional
  },
  ...
}

```

```

}

Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause
}

Successful-RL-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1.. maxnoofRLs-1)) OF
    ProtocolIE-Container  {{Successful-RL-InformationResponse-RL-SetupFailFDDItemIE }}

Successful-RL-InformationResponse-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-Successful-RL-InformationResponse-RL-SetupFailFDDItem
    CRITICALITY ignore          TYPE Successful-RL-InformationResponse-RL-SetupFailFDDItem
    PRESENCE optional          },
    ...
}

Successful-RL-InformationResponse-RL-SetupFailFDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    ul-InterferenceLevel  UL-InterferenceLevel,
    diversityIndication  DiversityIndication,
    dsch-InformationResponseList-RL-SetupFailFDD  OPTIONAL,
    sdt-SupportIndicator  SSdt-SupportIndicator
}

DiversityIndicationRL-SetupFailFDD ::= ENUMERATED {
    combining          Combining-RL-SetupFailFDD,
    non-combining      Non-CombiningRL-SetupFailFDD
}

Combining-RL-SetupFailFDD ::= SEQUENCE {
    rL-ID          RL-ID
}

Non-Combining-RL-SetupFailFDD ::= SEQUENCE {
    dch-InformationResponseList-RL-SetupFailFDD  DCH-InformationResponseList-RL-SetupFailFDDOPTIONAL
}

DCH-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1.. maxnoofDCHs)) OF
    ProtocolIE-Container{{DCH-InformationResponse-RL-SetupFailFDDItemIE }}

DCH-InformationResponse-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse-RL-SetupFailFDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-SetupFailFDDItem PRESENCE
    mandatory          },
    ...
}

DCH-InformationResponse-RL-SetupFailFDDItem ::= SEQUENCE {
    dch-ID          DCH-ID,
    bindingID       BindingID,
    transportLayerAddress  TransportLayerAddress
}

```

```

DSCH-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1..numofDSCH)) OF
  ProtocolIE-Container{{DSCH-InformationResponse-RL-SetupFailFDDItemIE }}

DSCH-InformationResponse-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponse-RL-SetupFailFDDItem   CRITICALITY   ignore   TYPE   DSCH-InformationResponse-RL-SetupFailFDDItem
  PRESENCE   mandatory                                   },
  ...
}

DSCH-InformationResponse-RL-SetupFailFDDItem ::= SEQUENCE {
  dSCH-ID           DSCH-ID,
  bindingID         BindingID,
  transportLayerAddress   TransportLayerAddress
}

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

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

RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID   CRITICALITY ignore   TYPE CRNC-CommunicationContextID PRESENCE mandatory   }|
  { ID id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD CRITICALITY ignore
  TYPE Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD
  PRESENCE   mandatory
  }|
  { ID id-CriticalityDiagnostic           CRITICALITY ignore   TYPE CriticalityDiagnostic           PRESENCE optional
  },
  ...
}

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

Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD ::= SEQUENCE {
  rL-ID           RL-ID,
  cause           Cause
}

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

```

```

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

RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID      CRITICALITY ignore      TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
    { ID id-RL-InformationList-RL-Add-ReqFDD   CRITICALITY ignore      TYPE RL-InformationList-RL-Add-ReqFDD   PRESENCE optional },
    ...
}

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

RadioLinkAdditionRequestFDD-PrivateExtensions NBAP-PRIVATE-EXTENSION ::= {
    ...
}

RL-InformationList-RL-Add-ReqFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
    ProtocolIE-Container {{RL-informationList-RL-Add-ReqFDDItemIE }}

RL-InformationList-RL-Add-ReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationList-RL-Add-ReqFDDItem   CRITICALITY ignore      TYPE RL-InformationList-RL-Add-ReqFDDItem PRESENCE mandatory },
    ...
}

RL-InformationList-RL-Add-ReqFDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    c-ID           C-ID,
    frameOffset    FrameOffset,
    chipOffset     ChipOffset,
    diversityControlField DiversityControlField,
    dl-CodeInformationList-RL-Add-ReqFDD          DL-CodeInformationList-RL-Add-ReqFDD
    initialDL-TransmissionPower DL-Power,
    maximumDL-Power          DL-Power          OPTIONAL,
    minimumDL-Power          DL-Power          OPTIONAL,
    sSDT-CellIdentity        SSdT-CellIdentity OPTIONAL
}

DL-CodeInformationList-RL-Add-ReqFDD ::= SEQUENCE (SIZE (1..maxnoofDLCodes)) OF
    ProtocolIE-Container {{ DL-CodeInformationList-RL-Add-ReqFDDItemIE }}

DL-CodeInformationList-RL-Add-ReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationList-RL-Add-ReqFDD   CRITICALITY ignore      TYPE DL-CodeInformationList-RL-Add-ReqFDD PRESENCE mandatory },
    ...
}

DL-CodeInformationList-RL-Add-ReqFDD ::= SEQUENCE {
    scramblingCode          ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber
}

```



```

-- *****
--
-- 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 ignore          TYPE NodeB-CommunicationContextID          PRESENCE mandatory } |
    { ID id-UL-CCTrCHInformationList-RL-Add-ReqTDD CRITICALITY ignore          TYPE UL-CCTrCHInformationList-RL-Add-ReqTDD PRESENCE optional } |
    { ID id-DL-CCTrCHInformationList-RL-Add-ReqTDD CRITICALITY ignore          TYPE DL-CCTrCHInformationList-RL-Add-ReqTDD PRESENCE optional } |
    { ID id-RL-Information-RL-Add-ReqTDD          CRITICALITY ignore          TYPE RL-Information-RL-Add-ReqTDD          PRESENCE mandatory },
    ...
}

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

UL-CCTrCHInformationList-RL-Add-ReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCH)) OF
    ProtocolIE-Container {{UL-CCTrCHInformation-RL-Add-ReqTDDItemIE }}

UL-CCTrCHInformation-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCHInformation-RL-Add-ReqTDDItem CRITICALITY ignore          TYPE UL-CCTrCHInformation-RL-Add-ReqTDDItem PRESENCE mandatory },
    ...
}

UL-CCTrCHInformation-RL-Add-ReqTDDItem ::= SEQUENCE {
    cCCTrCH          CCTrCH,
    ul-DPCH-InformationList  UL-DPCH-InformationList-RL-Add-ReqTDD  OPTIONAL
}

UL-DPCH-InformationList-RL-Add-ReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
    ProtocolIE-Container {{UL-DPCH-InformationList-RL-Add-ReqTDDItemIE}}

UL-DPCH-InformationList-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    {ID id- UL-DPCH-InformationList-RL-Add-ReqTDDItem          CRITICALITY ignore          TYPE  UL-DPCH-InformationList-RL-Add-
    ReqTDDItem          PRESENCE          mandatory
    },
    ...
}

UL-DPCH-InformationList-RL-Add-ReqTDDItem ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    burstType          BurstType,
    midambleShift      MidambleShift,
    timeSlot           TimeSlot,
}

```

```

    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    repetitionPeriod             RepetitionPeriod,
    repetitionLength             RepetitionLength,
    tFCI-Presence                TFCI-Presence
}

DL-CCTrCHInformationList-RL-Add-ReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF
    ProtocolIE-Container {{ DL-CCTrCHInformationList-RL-Add-ReqTDDItemIE }}

DL-CCTrCHInformationList-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCHInformationList-RL-Add-ReqTDDItem CRITICALITY    ignore    TYPE    DL-CCTrCHInformationList-RL-Add-ReqTDDItem
    PRESENCE    mandatory
    },
    ...
}

DL-CCTrCHInformationList-RL-Add-ReqTDDItem ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-InformationList-RL-Add-ReqTDD                DL-DPCH-InformationList-RL-Add-ReqTDD    OPTIONAL
}

DL-DPCH-InformationList-RL-Add-ReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
    ProtocolIE-Container {{ DL-DPCH-InformationList-RL-Add-ReqTDDItemIE }}

DL-DPCH-InformationList-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationList-RL-Add-ReqTDDItem CRITICALITY    ignore    TYPE    DL-DPCH-InformationList-RL-Add-ReqTDDItem
    PRESENCE    mandatory
    },
    ...
}

DL-DPCH-InformationList-RL-Add-ReqTDDItem ::= SEQUENCE {
    dpch-ID                DPCH-ID,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    burstType                BurstType,
    midambleShift            MidambleShift,
    timeSlot                TimeSlot,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence            TFCI-Presence
}

RL-informationItem-RL-Add-ReqTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                C-ID,
    cFN                CFN    OPTIONAL,
    frameOffset        FrameOffset,
    diversityControlField    DiversityControlField,
    initial-DL-Transmission-Power    DL-Power    OPTIONAL,
    maximumDL-Power        DL-Power    OPTIONAL,
    minimumDL-Power        DL-Power    OPTIONAL
}

```

```

-- *****
--
-- 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-ResponseInformationList-RL-Add-ResFDD                CRITICALITY ignore          TYPE RL-ResponseInformationList-RL-Add-
ResFDD PRESENCE mandatory }|
    { ID id-CriticalityDiagnostic CRITICALITY ignore          TYPE CriticalityDiagnostic PRESENCE optional
    },
    ...
}

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

RL-ResponseInformationList-RL-Add-ResFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
    ProtocolIE-Container {{RL-ResponseInformationList-RL-Add-ResFDDItemIE }}

RL-ResponseInformation-RL-Add-ResFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-ResponseInformation-RL-Add-ResFDDItem                CRITICALITY ignore          TYPE RL-ResponseInformation-RL-Add-
ResFDDItem PRESENCE mandatory
    },
    ...
}

RL-ResponseInformation-RL-Add-ResFDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    ul-InterferenceLevel          UL-InterferenceLevel,
    diversityIndication          DiversityIndication-RL-Add-ResFDD,
    sSDT-SupportIndicator          SSdT-SupportIndicator
}

DiversityIndication-RL-Add-ResFDD ::= ENUMERATED {
    combining          Combining-RL-Add-ResFDD,
    non-combining          Non-Combining-RL-Add-ResFDD
}

Combining-RL-Add-ResFDD ::= SEQUENCE {
    rL-ID          RL-ID
}

Non-Combining-RL-Add-ResFDD ::= SEQUENCE {
    dCH-InformationResponseList-RL-Add-ResFDD
}

```

```

DCH-InformationResponseList-RL-Add-ResFDD
}

DCH-InformationResponseList-RL-Add-ResFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
  ProtocolIE-Container{{DCH-InformationResponseList-RL-Add-ResFDD ItemIE }}

DCH-InformationResponseList-RL-Add-ResFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponseList-RL-Add-ResFDDItem          CRITICALITY ignore           TYPE DCH-InformationResponseList-RL-Add-
  ResFDDItem          PRESENCE mandatory
  },
  ...
}

DCH-InformationResponseList-RL-Add-ResFDDItem ::= SEQUENCE {
  dCH-ID                DCH-ID,
  bindingID             BindingID,
  transportLayerAddress TransportLayerAddress
}

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

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

RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-Communication-Context-ID  CRITICALITY ignore           TYPE CRNC-Communication-Context-ID PRESENCE mandatory }|
  { ID id-RL-Information-RL-Add-RespTDD  CRITICALITY ignore           TYPE RL-Information-RL-Add-RespTDD PRESENCE mandatory }|
  { ID id-CriticalityDiagnostic          CRITICALITY ignore           TYPE CriticalityDiagnostic       PRESENCE optional
  },
  ...
}

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

RL-Information-RL-Add-Resp ::= SEQUENCE {
  rL-ID                RL-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  diversityIndication  DiversityIndication-RL-Add-RespTDD,
}

DiversityIndication-RL-Add-RespTDD ::= ENUMERATED {
  combining            Combining-RL-Add-RespTDD,
  non-Combining        Non-Combining-RL-Add-RespTDD
}

```

```

Combining-RL-Add-RespTDD ::= SEQUENCE {
    rL-ID          RL-ID
}

Non-Combining-RL-Add-RespTDD ::= SEQUENCE {
    dCH-InfomationResponseList  DCH-InformationResponseList-RL-Add-RespTDD      OPTIONAL,
    dSCH-InfomationResponseList  DSCH-InformationResponseList-RL-Add-RespTDD    OPTIONAL,
    uSCH-InfomationResponseList  USCH-InformationResponseList-RL-Add-RespTDD    OPTIONAL
}

DCH-InformationResponseList-RL-Add-RespTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-InformationResponse-RL-Add-RespTDDItemIE}}

DCH-InformationResponse-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
    {ID id-DCH-InformationResponse-RL-Add-RespTDDItem  CRITICALITY ignore      TYPE      DCH-InformationResponse-RL-Add-RespTDDItem  PRESENCE
    mandatory
    },
    ...
}

DCH-InformationResponse-RL-Add-RespTDDItem ::= SEQUENCE {
    dCH-ID          DCH-ID,
    binding-ID      Binding-ID,
    transport-Layer-Address  Transport-Laer-Address
}

DSCH-InformationResponseList-RL-Add-RespTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container {{DSCH-InformationResponse-RL-Add-RespTDDItemIE}}

DSCH-InformationResponse-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
    {ID id-DSCH-InformationResponse-RL-Add-RespTDDItem  CRITICALITY ignore      TYPE      DSCH-InformationResponse-RL-Add-RespTDDItem  PRESENCE
    mandatory
    },
    ...
}

DSCH-InformationResponse-RL-Add-RespTDDItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    binding-ID      Binding-ID,
    transport-Layer-Address  Transport-Laer-Address
}

USCH-InformationResponseList-RL-Add-RespTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-InformationResponseList-RL-Add-RespTDD ItemIE}}

USCH-InformationResponseList-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
    {ID id-USCH-InformationResponseList-RL-Add-RespTDDItem  CRITICALITY ignore      TYPE      USCH-InformationResponseList-RL-Add-
    RespTDDItem      PRESENCE      mandatory
    },
    ...
}

USCH-InformationResponseList-RL-Add-RespTDDItem ::= SEQUENCE {

```

```

    uSCH-ID          USCH-ID,
    binding-ID       Binding-ID,
    transport-Layer-Address  Transport-Layer-Address
}

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

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

RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID  CRITICALITY ignore TYPE CRNC-CommunicationContextID  PRESENCE mandatory } |
    { ID id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDD  CRITICALITY ignore TYPE Unsuccessful-RL-
InformationResponseList-RL-Add-FailFDD  PRESENCE mandatory
} |
    { ID id-Successful-RL-InformationResponseList-RL-Add-FailFDD  CRITICALITY ignore TYPE Successful-RL-
InformationResponseList-RL-Add-FailFDD  PRESENCE mandatory
} |
    { ID id-CriticalityDiagnostic  CRITICALITY ignore TYPE CriticalityDiagnostic  PRESENCE optional
    },
    ...
}

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

Unsuccessful-RL-InformationResponseList-RL-Add-FailFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
    ProtocolIE-Container  {{Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItemIE }}

Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem  CRITICALITY ignore TYPE Unsuccessful-RL-
InformationResponseList-RL-Add-FailFDDItem  PRESENCE mandatory
    },
    ...
}

Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause
}

Successful-RL-InformationResponseList-RL-Add-FailFDD ::= SEQUENCE (SIZE (1..maxnoofRL-2)) OF
    ProtocolIE-Container  {{Successful-RL-InformationResponse-RL-Add-FailFDD ItemIE }}

Successful-RL-InformationResponse-RL-Add-FailFDDItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-Successful-RL-InformationResponse-RL-Add-FailFDDItem
    InformationResponse-RL-Add-FailFDDItem PRESENCE mandatory },
    ...
}

Successful-RL-InformationResponse-RL-Add-FailFDDItem ::= SEQUENCE {
    rL-ID RL-ID,
    ul-InterferenceLevel UL-InterferenceLevel,
    diversityIndication DiversityIndication-RL-Add-FailFDD,
    sSDT-SupportIndicator SSdT-SupportIndicator
}

DiversityIndication-RL-Add-FailFDD ::= ENUMERATED {
    combining Combining-RL-Add-FailFDD,
    non-combining Non-Combining-RL-Add-FailFDD
}

Combining-RL-Add-FailFDD ::= SEQUENCE {
    rL-ID RL-ID
}

Non-Combining-RL-Add-FailFDD ::= SEQUENCE {
    dCH-InformationResponseList DCH-InformationResponseList-RL-Add-FailFDD
}

DCH-InformationResponseList-RL-Add-FailFDD ::= SEQUENCE (SIZE (1..maxnoofDCH)) OF ProtocolIE-Container {{DCH-InformationResponse-RL-Add-FailFDDItemIE }}

DCH-InformationResponse-RL-Add-FailFDDItemIE NBAP-PROTOCOL-IES ::= {
    { I D id-DCH-InformationResponse-RL-Add-FailFDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-Add-FailFDDItem PRESENCE mandatory },
    ...
}

DCH-InformationResponse-RL-Add-FailFDDItem ::= SEQUENCE {
    dCH-ID DCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress
}

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

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

RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationResponse CRITICALITY ignore TYPE Unsuccessful-RL-InformationResponse PRESENCE mandatory }|

```

```

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

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

Unsuccessful-RL-InformationResponse ::= SEQUENCE {
  rL-ID          RL-ID,
  cause          Cause
}

-- *****
--
-- 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 ignore          TYPE NodeB-CommunicationContextID          PRESENCE mandatory } |
  { ID id-UL-DPCH-Information-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE UL-DPCH-Information-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-DL-DPCH-Information-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE DL-DPCH-Information-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-DCH-ModifyList-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE DCH-ModifyList-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-DCH-AddList-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE DCH-AddList-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-DCH-DeleteList-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE DCH-DeleteList-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-DSCH-ModifyItem-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE DSCH-ModifyItem-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-DSCH-AddItem-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE DSCH-AddItem-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-DSCH-DeleteItem-RL-ReconfPrepFDD          CRITICALITY ignore          TYPE DSCH-DeleteItem-RL-ReconfPrepFDD          PRESENCE optional } |
  { ID id-RadioLinkInformationList-RL-ReconfPrepFDD          CRITICALITY          ignore          TYPE RadioLinkInformationList-RL-ReconfPrepFDD          PRESENCE
  optional
},
  ...
}

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

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
  ul-ScramblingCode          UL-ScramblingCode          OPTIONAL,
  minUL-ChannelisationCodeLength  MinUL-ChannelisationCodeLength  OPTIONAL,
  maxNrOfUL-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL
  -- This IE is present only if minUL-ChannelisationCodeLength equals to 4
}

```



```

    ul-PunctureLimit          UL-PunctureLimit          OPTIONAL,
    tFCS                      TFCS                      OPTIONAL,
    ul-DPCCH-SlotFormat       UL-DPCCH-SlotFormat       OPTIONAL,
    sSDT-CellIdentityLength    SSdT-CellIdentityLength  OPTIONAL,
    s-FieldLength             S-FieldLength             OPTIONAL,
-- The following information element is needed if there is a need to add Ies      with specific criticality.
}

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,
    dTX-InsertionPoint        DTX-InsertionPoint        OPTIONAL,
    ...
}

DCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-Modify-RL-ReconfPrepFDDItemIE }}

DCH-Modify-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Modify-RL-ReconfPrepFDDItem CRITICALITY ignore      TYPE DCH-Modify-RL-ReconfPrepFDDItem PRESENCE optional },
    ...
}

DCH-Modify-RL-ReconfPrepFDDItem ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    ul-TransportFormatSet     TransportFormatSet OPTIONAL,
    dl-TransportFormatSet     TransportFormatSet OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority OPTIONAL,
    ul-FP-Mode                 UL-FP-Mode             OPTIONAL,
    toAWS                      ToAWS                 OPTIONAL,
    toAWE                      ToAWE                 OPTIONAL
}

DCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-Add-RL-ReconfPrepFDDItemIE }}

DCH-Add-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Add-RL-ReconfPrepFDDItem CRITICALITY ignore      TYPE DCH-Add-RL-ReconfPrepFDDItem PRESENCE optional },
    ...
}

DCH-Add-RL-ReconfPrepFDDItem ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
    rLC-Mode                  RLC-Mode,
    ul-TransportFormatSet     TransportFormatSet,
    dl-TransportFormatSet     TransportFormatSet,
    frameHandlingPriority      FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                 UL-FP-Mode,
    toAWS                      ToAWS,
    toAWE                      ToAWE
}

```

```

}

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Delete-RL-ReconfPrepFDDItemIE }}

DCH-Delete-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Delete-RL-ReconfPrepFDDItem CRITICALITY ignore      TYPE DCH-Delete-RL-ReconfPrepFDDItem  PRESENCE optional  },
  ...
}

DCH-Delete-RL-ReconfPrepFDDItem ::= SEQUENCE {
  dCH-ID          DCH-ID
}

DSCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dl-TransportFormatSet      TransportFormatSet      OPTIONAL,
  rL-ID          RL-ID          OPTIONAL,
  frameHandlingPriority      FrameHandlingPriority    OPTIONAL,
  toAWS          ToAWS          OPTIONAL,
  toAWE          ToAWE          OPTIONAL
}

DSCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dl-TransportFormatSet      TransportFormatSet,
  rL-ID          RL-ID,
  frameHandlingPriority      FrameHandlingPriority,
  toAWS          ToAWS,
  toAWE          ToAWE
}

DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
  rL-ID          RL-ID
}

RadioLinkInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{RadioLinkInformation-RL-ReconfPrepFDDItemIE}}

RadioLinkInformation-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RadioLinkInformation-RL-ReconfPrepFDDItem CRITICALITY ignore      TYPE RadioLinkInformation-RL-ReconfPrepFDDItem  PRESENCE
  mandatory},
  ...
}

RadioLinkInformation-RL-ReconfPrepFDDItem ::= SEQUENCE {
  rL-ID          RL-ID,
  dl-CodeInformationList-RL-ReconfPrepFDD          DL-CodeInformationList-RL-ReconfPrepFDD      OPTIONAL,
  maxDL-Power      DL-Power          OPTIONAL,
  minDL-Power      DL-Power          OPTIONAL,
  SSDT-Indication      SSdT-Indication  OPTIONAL,
  SSDT-CellIdentity      SSdT-CellIdentity  OPTIONAL
-- The IE may be present if the SSdT Indication is set to SSdT Active in the UE
}

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

```

```

ProtocolIE-Container {{DL-CodeInformation-RL-ReconfPrepFDDItemIE }}
DL-CodeInformation-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformation-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE DL-CodeInformation-RL-ReconfPrepFDDItem PRESENCE optional },
  ...
}
DL-CodeInformation-RL-ReconfPrepFDDItem ::= SEQUENCE {
  scramblingCode ScramblingCode OPTIONAL,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber OPTIONAL
}
-- *****
--
-- 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 ignore TYPE NodeB-CommunicationContextIDPRESENCE mandatory } |
  { ID id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD CRITICALITY ignore TYPE UL-CCTrCH-InformationList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD CRITICALITY ignore TYPE DL-CCTrCH-InformationList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DCH-ModifyList-RL-ReconfPrepTDD CRITICALITY ignore TYPE DCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DCH-AddList-RL-ReconfPrepTDD CRITICALITY ignore TYPE DCH-AddList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY ignore TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY ignore TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DSCH-information-AddList-RL-ReconfPrepTDD CRITICALITY ignore TYPE DSCH-Information-AddList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY ignore TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY ignore TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-USCH-information-AddList-RL-ReconfPrepTDD CRITICALITY ignore TYPE USCH-Information-AddList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY ignore TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
}

```

```

    { ID id-RadioLinkInformation-RL-ReconfPrepTDD      CRITICALITY      ignore      TYPE      RadioLinkInformation-RL-ReconfPrepTDD      PRESENCE
      optional
    },
    ...
  }

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

UL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF ProtocolIE-Container {{UL-CCTrCH-Information-RL-
ReconfPrepTDDItemIE }}

UL-CCTrCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem  CRITICALITY      ignore      TYPE      UL-CCTrCH-Information-RL-ReconfPrepTDDItem  PRESENCE
    optional},
  ...
}

UL-CCTrCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS                TFCS          OPTIONAL,
  tFCI-Coding        TFCI-Coding  OPTIONAL,      punturing-Limit          Punturing-Limit  OPTIONAL
  ul-DPCH-InformationList-RL-ReconfPrepTDD          UL-DPCH-InformationList-RL-ReconfPrepTDD  OPTIONAL
}

UL-DPCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
ProtocolIE-Container {{UL-DPCH-Information-RL-ReconfPrepTDDItemIE }}

UL-DPCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-Information-RL-ReconfPrepTDDItem  CRITICALITY      ignore      TYPE      UL-DPCH-Information-RL-ReconfPrepTDDItem  PRESENCE
    mandatory
  },
  ...
}

UL-DPCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
dPCH-ID          DPCH-ID,
  tDD-ChannelisationCode      TDD-ChannelisationCode  OPTIONAL,
  burstType          BurstType          OPTIONAL,
  midambleShift      MidambleShift      OPTIONAL,
  timeSlot           TimeSlot           OPTIONAL,
  tdd-PhysicalChannelOffset      TDD-PhysicalChannelOffset      OPTIONAL,
  repetitionPeriod   RepetitionPeriod   OPTIONAL,
  repetitionLength   RepetitionLength   OPTIONAL,
  tFCI-Presence      TFCI-Presence      OPTIONAL
}

DL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF ProtocolIE-Container {{DL-CCTrCH-Information-RL-
ReconfPrepTDDItemIE }}

DL-CCTrCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-DL-CCTrCH-Information-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DL-CCTrCH-Information-RL-ReconfPrepTDDItem PRESENCE
      mandatory
    },
    ...
  }

DL-CCTrCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS          OPTIONAL,
  tFCI-Coding        TFCI-Coding  OPTIONAL,          punturing-Limit          Punturing-Limit OPTIONAL
  dl-DPCH-InformationList-RL-ReconfPrepTDD          DL-DPCH-InformationList-RL-ReconfPrepTDD OPTIONAL
}

DL-DPCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
  ProtocolIE-Container {{DL-DPCH-Information-RL-ReconfPrepTDDItemIE }}

DL-DPCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-Information-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DL-DPCH-Information-RL-ReconfPrepTDDItem
    PRESENCE mandatory
  },
  ...
}

DL-DPCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
dPCH-ID          DPCH-ID,
  tDD-ChannelisationCode          TDD-ChannelisationCode  OPTIONAL,
  burstType                       BurstType              OPTIONAL,
  midambleShift                   MidambleShift          OPTIONAL,
  timeSlot                         TimeSlot              OPTIONAL,
  tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset  OPTIONA
  repetitionPeriod                 RepetitionPeriod        OPTIONAL,
  rpetitionLength                  RepetitionLength        OPTIONAL,
  tFCI-Presence                    TFCI-Presence          OPTIONAL
}

DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Modify-RL-ReconfPrepTDDItemIE }}

DCH-Modify-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Modify-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DCH-Modify-RL-ReconfPrepTDDItem PRESENCE optional },
  ...
}

DCH-Modify-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dCH-ID          DCH-ID,
  ul-TransportFormatSet          TransportFormatSet  OPTIONAL,
  dl-TransportFormatSet          TransportFormatSet  OPTIONAL,
  frameHandlingPriority          FrameHandlingPriority  OPTIONAL,
  ul-FP-Mode                     UL-FP-Mode          OPTIONAL,
  toAWS                           ToAWS              OPTIONAL,
  toAWE                           ToAWE              OPTIONAL,
}

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

```

```

ProtocolIE-Container {{DCH-Add-RL-ReconfPrepTDDItemIE }}

DCH-Add-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Add-RL-ReconfPrepTDDItem   CRITICALITY ignore   TYPE DCH-Add-RL-ReconfPrepTDDItem   PRESENCE optional },
  ...
}

DCH-Add-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dCH-ID                DCH-ID,
  dCH-CombinationIndication  DCH-CombinationIndication  OPTIONAL,
  rLC-Mode              RLC-Mode,
  ul-CCTrCH-ID         CCTrCH-ID,
  dl-CCTrCH-ID         CCTrCH-ID,
  ul-TransportFormatSet  TransportFormatSet,
  dl-TransportFormatSet  TransportFormatSet,
  frameHandlingPriority  FrameHandlingPriority,
  payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
  ul-FP-Mode           UL-FP-Mode,
  toAWS                ToAWS,
  toAWE                ToAWE
}

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Delete-RL-ReconfPrepTDDItemIE }}

DCH-Delete-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Delete-RL-ReconfPrepTDDItem CRITICALITY ignore   TYPE DCH-Delete-RL-ReconfPrepTDDItem   PRESENCE optional },
  ...
}

DCH-Delete-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dCH-ID                DCH-ID
}

DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
  ProtocolIE-Container {{DSCH-Information-Modify-RL-ReconfPrepTDDItemIE }}

DSCH-Information-Modify-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Information-Modify-RL-ReconfPrepTDDItem CRITICALITY ignore   TYPE DSCH-Information-Modify-RL-ReconfPrepTDDItem
  PRESENCE optional
  },
  ...
}

DSCH-Information-Modify-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dsCH-ID                DSCH-ID,
  transportFormatSet     TransportFormatSet  OPTIONAL,
  cCTrCH-ID              CCTrCH-ID           OPTIONAL,
  frameHandlingPriority   FrameHandlingPriority  OPTIONAL,
  toAWE                  ToAWE               OPTIONAL,
  toAWS                  ToAWS               OPTIONAL
}

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

```

```

ProtocolIE-Container {{DSCH-Information-Add-RL-ReconfPrepTDDItemIE }}

DSCH-Information-Add-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Information-Add-RL-ReconfPrepTDDItem  CRITICALITY  ignore  TYPE  DCH-Add-RL-ReconfPrepTDDItem  PRESENCE
    mandatory
  },
  ...
}

DSCH-Information-Add-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  cCTrCH-ID       CCTrCH-ID,
  transportFormatSet  TransportFormatSet,
  frameHandlingPriority  FrameHandlingPriority  OPTIONAL,
  toAWE           ToAWE,
  toAWS           ToAWS
}

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF ProtocolIE-Container {{DCH-Delete-RL-ReconfPrepTDDItemIE
}}

DSCH-Information-Delete-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Information-Delete-RL-ReconfPrepTDDItem  CRITICALITY  ignore  TYPE  DSCH-Information-Delete-RL-ReconfPrepTDDItem
    PRESENCE  optional
  },
  ...
}

DSCH-Information-Delete-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dSCH-ID          DSCH-ID
}

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF ProtocolIE-Container {{USCH-Information-Modify-RL-
ReconfPrepTDDItemIE }}

USCH-Information-Modify-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Information-Modify-RL-ReconfPrepTDDItem  CRITICALITY  ignore  TYPE  USCH-Information-Modify-RL-ReconfPrepTDDItem
    PRESENCE  optional
  },
  ...
}

USCH-Information-Modify-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  transportFormatSet  TransportFormatSet  OPTIONAL,
  cCTrCH-ID         CCTrCH-ID  OPTIONAL
}

USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
ProtocolIE-Container {{USCH-Information-Add-RL-ReconfPrepTDDItemIE }}

USCH-Information-Add-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Information-Add-RL-ReconfPrepTDDItem  CRITICALITY  ignore  TYPE  USCH-Add-RL-ReconfPrepTDDItem  PRESENCE  optional
  },
  ...
}

```

```

}

USCH-Information-Add-RL-ReconfPrepTDDItem ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    cCTrCH-ID       CCTrCH-ID,
    transportFormatSet TransportFormatSet
}

USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF ProtocolIE-Container {{USCH-Delete-RL-ReconfPrepTDDItemIE}}

USCH-Information-Delete-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-Information-Delete-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE USCH-Information-Delete-RL-ReconfPrepTDDItem
    PRESENCE optional
},
    ...
}

USCH-Information-Delete-RL-ReconfPrepTDDItem ::= SEQUENCE {
    uSCH-ID          USCH-ID
}

RadioLinkInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    maxDL-Power     DL-Power     OPTIONAL,
    minDL-Power     DL-Power     OPTIONAL
}

-- *****
--
-- 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
},
    ...
}

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

RL-InformationResponseList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF

```



```

ProtocolIE-Container {{RL-InformationResponse-RL-ReconfReadyItemIE }}

RL-InformationResponse-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseList-RL-ReconfReadyItem      CRITICALITY ignore      TYPE RL-InformationResponseList-RL-
ReconfReadyItem      PRESENCE      mandatory
},
  ...
}

RL-InformationResponseList-RL-ReconfReadyItem ::= SEQUENCE {
  rL-ID          RL-ID,
  dCHsToBeAdded DCH-AddList-RL-ReconfReady OPTIONAL,
  dCHsToBeModified DCH-ModifyList-RL-ReconfReady OPTIONAL,
  dsCH-SetupItem DSCH-SetupItem-RL-ReconfReady OPTIONAL,
  dsCH-ModifyItem DSCH-ModifyItem-RL-ReconfReady OPTIONAL,
  uCH-SetupItem USCH-SetupItem-RL-ReconfReady OPTIONAL,
  uSCH-ModifyItem USCH-ModifyItem-RL-ReconfReady OPTIONAL
}

DCH-AddList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container {{DCH-Add-RL-ReconfReadyItemIE }}

DCH-Add-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Add-RL-ReconfReadyItem      CRITICALITY ignore      TYPE DCH-Add-RL-ReconfReadyItem      PRESENCE mandatory },
  ...
}

DCH-Add-RL-ReconfReadyItem ::= SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress TransportLayerAddress
}

DCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container {{DCH-Modify-RL-ReconfReadyItemIE }}

DCH-Modify-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Modify-RL-ReconfReadyItem      CRITICALITY ignore      TYPE DCH-Modify-RL-ReconfReadyItem      PRESENCE mandatory },
  ...
}

DCH-Modify-RL-ReconfReadyItem ::= SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress TransportLayerAddress
}

DSCH-SetupList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
ProtocolIE-Container {{DSCH-Setup-RL-ReconfReadyItemIE }}

DSCH-Setup-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Setup-RL-ReconfReadyItem      CRITICALITY ignore      TYPE DSCH-Setup-RL-ReconfReadyItem      PRESENCE mandatory },
  ...
}

```

```

DSCH-Setup-RL-ReconfReadyitem ::= SEQUENCE {
    dSCH-ID          DSCH-ID
    bindingID        BindingID,
    transportLayerAddress  TransportLayerAddress
}

DSCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container {{DSCH-Modify-RL-ReconfReadyItemIE }}

DSCH-Modify-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Modify-RL-ReconfReadyItem          CRITICALITY ignore  TYPE DSCH-Modify-RL-ReconfReadyItem  PRESENCE mandatory  },
    ...
}

DSCH-ModifyItem-RL-ReconfReadyItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID
    bindingID        BindingID,
    transportLayerAddress  TransportLayerAddress
}

USCH-SetupList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-Setup-RL-ReconfReadyItemIE }}

USCH-Setup-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-Setup-RL-ReconfReadyItem          CRITICALITY ignore  TYPE USCH-Setup-RL-ReconfReadyItem  PRESENCE mandatory  },
    ...
}

USCH-Setup-RL-ReconfReadyitem ::= SEQUENCE {
    uSCH-ID          USCH-ID
    bindingID        BindingID,
    transportLayerAddress  TransportLayerAddress
}

USCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-Modify-RL-ReconfReadyItemIE }}

USCH-Modify-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-Modify-RL-ReconfReadyItem          CRITICALITY ignore  TYPE USCH-Modify-RL-ReconfReadyItem  PRESENCE mandatory  },
    ...
}

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

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

```

```

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

RadioLinkReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID    CRITICALITY ignore    TYPE CRNC-CommunicationContextID    PRESENCE mandatory } |
    { ID id-Cause                          CRITICALITY ignore    TYPE Cause                          PRESENCE mandatory } |
    { ID id-RL-ReconfigurationFailureList-RL-ReconfFail CRITICALITY ignore    TYPE RL-ReconfigurationFailureList-RL-ReconfFail PRESENCE optional
    optional
    } |
    { ID id-CriticalityDiagnostic          CRITICALITY ignore    TYPE CriticalityDiagnostic          PRESENCE optional
    },
    ...
}

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

RL-ReconfigurationFailureList-RL-ReconfFail ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{RL-ReconfigurationFailure-RL-ReconfFailItemIE}}

RL-ReconfigurationFailure-RL-ReconfFailItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationFailure-RL-ReconfFailItem CRITICALITY ignore    TYPE    RL-ReconfigurationFailure-RL-ReconfFailItem PRESENCE optional
    },
    ...
}

RL-ReconfigurationFailure-RL-ReconfFailItem ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause
}

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

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

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 },
    ...
}

```

```

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

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

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

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}}
    ...
}

RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY ignore      TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
    { ID id-UL-DPCH-InformationItem-RL-ReconfReqFDD CRITICALITY ignore      TYPE UL-DPCH-InformationItem-RL-ReconfReqFDD PRESENCE optional } |
    { ID id-DL-DPCH-InformationItem-RL-ReconfReqFDD CRITICALITY ignore      TYPE DL-DPCH-InformationItem-RL-ReconfReqFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfReqFDD         CRITICALITY ignore      TYPE DCH-ModifyList-RL-ReconfReqFDD     PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfReqFDD            CRITICALITY ignore      TYPE DCH-AddList-RL-ReconfReqFDD        PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfReqFDD         CRITICALITY ignore      TYPE DCH-DeleteList-RL-ReconfReqFDD     PRESENCE optional } |
    { ID id-DSCH-ModifyItem-RL-ReconfReqFDD        CRITICALITY ignore      TYPE DSCH-ModifyItem-RL-ReconfReqFDD    PRESENCE optional } |
    { ID id-DSCH-AddItem-RL-ReconfReqFDD           CRITICALITY ignore      TYPE DSCH-AddItem-RL-ReconfReqFDD       PRESENCE optional } |
    { ID id-DSCH-DeleteItem-RL-ReconfReqFDD        CRITICALITY ignore      TYPE DSCH-DeleteItem-RL-ReconfReqFDD    PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfReqFDD     CRITICALITY ignore      TYPE RL-InformationList-RL-ReconfReqFDD PRESENCE optional },
    ...
}

```

```

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

UL-DPCH-InformationItem-RL-ReconfReqFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL
}

DL-DPCH-InformationItem-RL-ReconfReqFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL
    tFCI-SignallingMode  TFCI-SignallingMode OPTIONAL
}

DCH-ModifyList-RL-ReconfReqFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-Modify-RL-ReconfReqFDDItemIE }}

DCH-Modify-RL-ReconfReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Modify-RL-ReconfReqFDDItem CRITICALITY ignore          TYPE DCH-Modify-RL-ReconfReqFDDItem PRESENCE optional },
    ...
}

DCH-Modify-RL-ReconfReqFDDItem ::= SEQUENCE {
    dCH-ID          DCH-ID,
    ul-TransportFormatSet      TransportFormatSet OPTIONAL,
    dl-TransportFormatSet      TransportFormatSet OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority OPTIONAL,
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS              ToAWS              OPTIONAL,
    toAWE              ToAWE              OPTIONAL
}

DCH-AddList-RL-ReconfReqFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-Add-RL-ReconfReqFDDItemIE }}

DCH-Add-RL-ReconfReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Add-RL-ReconfReqFDDItem CRITICALITY ignore          TYPE DCH-Add-RL-ReconfReqFDDItem PRESENCE optional },
    ...
}

DCH-Add-RL-ReconfReqFDDItem ::= SEQUENCE {
    dCH-ID          DCH-ID,
    ul-TransportFormatSet      TransportFormatSet,
    dl-TransportFormatSet      TransportFormatSet,
    frameHandlingPriority      FrameHandlingPriority,
    payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
    ul-FP-Mode          UL-FP-Mode,
    toAWS              ToAWS,
    toAWE              ToAWE
}

DCH-DeleteList-RL-ReconfReqFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-Delete-RL-ReconfReqFDDItemIE }}

```

```

DCH-Delete-RL-ReconfReqFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Delete-RL-ReconfReqFDDItem CRITICALITY ignore TYPE DCH-Delete-RL-ReconfReqFDDItem PRESENCE optional },
  ...
}

DCH-Delete-RL-ReconfReqFDDItem ::= SEQUENCE {
  dCH-ID          DCH-ID
}

DSCH-ModifyItem-RL-ReconfReqFDD ::= SEQUENCE {
  dl-TransportFormatSet  TransportFormatSet  OPTIONAL,
  rL-ID                  RL-ID                OPTIONAL,
  frameHandlingPriority  FrameHandlingPriority  OPTIONAL,
  toAWS                  ToAWS                OPTIONAL,
  toAWE                  ToAWE                OPTIONAL
}

DSCH-AddItem-RL-ReconfReqFDD ::= SEQUENCE {
  dl-TransportFormatSet  TransportFormatSet,
  rL-ID                  RL-ID,
  frameHandlingPriority  FrameHandlingPriority,
  toAWS                  ToAWS,
  toAWE                  ToAWE
}

DSCH-DeleteItem-RL-ReconfReqFDD ::= SEQUENCE {
  rL-ID          RL-ID
}

RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{RL-Information-RL-ReconfPrepFDDItemIE }}

RL-Information-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Information-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE RL-Information-RL-ReconfPrepFDDItem PRESENCE optional },
  ...
}

RL-Information-RL-ReconfPrepFDDItem ::= SEQUENCE {
  rL-ID          RL-ID,
  maxDL-Power   DL-Power          OPTIONAL,
  minDL-Power   DL-Power          OPTIONAL
}

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

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

```

```

RadioLinkReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID          CRITICALITY ignore      TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
  { ID id-UL-CCTrCH-InformationList-RL-ReconfReqTDD  CRITICALITY ignore      TYPE      UL-CCTrCH-InformationList-RL-ReconfReqTDD
  PRESENCE optional
  } |
  { ID id-DL-CCTrCH-InformationList-RL-ReconfReqTDD  CRITICALITY ignore      TYPE      DL-CCTrCH-InformationList-RL-ReconfReqTDD
  PRESENCE      optional
  } |
  { ID id-DCH-ModifyList-RL-ReconfReqTDD          CRITICALITY ignore      TYPE DCH-ModifyList-RL-ReconfReqTDD      PRESENCE optional } |
  { ID id-DCH-AddList-RL-ReconfReqTDD            CRITICALITY ignore      TYPE DCH-AddList-RL-ReconfReqTDD          PRESENCE optional } |
  { ID id-DCH-DeleteList-RL-ReconfReqTDD         CRITICALITY ignore      TYPE DCH-DeleteList-RL-ReconfReqTDD      PRESENCE optional } |
  { ID id-DSCH-ModifyList-RL-ReconfReqTDD        CRITICALITY ignore      TYPE DSCH-ModifyList-RL-ReconfReqTDD     PRESENCE optional } |
  { ID id-DSCH-AddList-RL-ReconfReqTDD           CRITICALITY ignore      TYPE DSCH-AddList-RL-ReconfReqTDD       PRESENCE optional } |
  { ID id-DSCH-DeleteList-RL-ReconfReqTDD        CRITICALITY ignore      TYPE DSCH-DeleteList-RL-ReconfReqTDD    PRESENCE optional } |
  { ID id-USCH-ModifyList-RL-ReconfReqTDD        CRITICALITY ignore      TYPE USCH-ModifyList-RL-ReconfReqTDD    PRESENCE optional } |
  { ID id-USCH-AddList-RL-ReconfReqTDD           CRITICALITY ignore      TYPE USCH-AddList-RL-ReconfReqTDD       PRESENCE optional } |
  { ID id-USCH-DeleteList-RL-ReconfReqTDD        CRITICALITY ignore      TYPE USCH-DeleteList-RL-ReconfReqTDD    PRESENCE optional },
  ...
}

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

UL-CCTrCH-InformationList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF
  ProtocolIE-Container {{UL-CCTrCH-Information-RL-ReconfReqTDDItemIE }}

UL-CCTrCH-Information-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-Information-RL-ReconfReqTDDItem  CRITICALITY ignore      TYPE      UL-CCTrCH-Information-RL-ReconfReqTDDItem
  PRESENCE      mandatory
  },
  ...
}

UL-CCTrCH-Information-RL-ReconfReqTDDItem ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS,
  puncturingLimit   PuncturingLimit
}

DL-CCTrCH-InformationList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF
  ProtocolIE-Container {{DL-CCTrCH-Information-RL-ReconfReqTDDItemIE }}

DL-CCTrCH-Information-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-Information-RL-ReconfReqTDDItem  CRITICALITY ignore      TYPE      DL-CCTrCH-Information-RL-ReconfReqTDDItem
  PRESENCE      mandatory
  },
  ...
}

DL-CCTrCH-Information-RL-ReconfReqTDDItem ::= SEQUENCE {

```

```

    cCtRCH-ID          CcTtRCH-ID,
    tFCS              TFCS,
    puncturingLimit   PuncturingLimit
}

DCH-ModifyList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Modify-RL-ReconfReqTDDItemIE }}

DCH-Modify-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Modify-RL-ReconfReqTDDItem CRITICALITY ignore      TYPE DCH-Modify-RL-ReconfReqTDDItemPRESENCE optional },
  ...
}

DCH-Modify-RL-ReconfReqTDDItem ::= SEQUENCE {
  dCH-ID              DCH-ID,
  ul-CcTtRCH-ID      CcTtRCH-ID,
  dl-CcTtRCH-ID      CcTtRCH-ID,
  ul-TransportFormatSet  TransportFormatSet OPTIONAL,
  dl-TransportFormatSet  TransportFormatSet OPTIONAL,
  frameHandlingPriority  FrameHandlingPriority OPTIONAL,
  ul-FP-Mode            UL-FP-Mode      OPTIONAL,
  toAWS                 ToAWS           OPTIONAL,
  toAWE                 ToAWE           OPTIONAL
}

DCH-AddList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Add-RL-ReconfReqTDDItemIE }}

DCH-Add-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Add-RL-ReconfReqTDDItem CRITICALITY ignore      TYPE DCH-Add-RL-ReconfReqTDDItem PRESENCE optional },
  ...
}

DCH-Add-RL-ReconfReqTDDItem ::= SEQUENCE {
  dCH-ID              DCH-ID,
  rLC-Mode            RLC-Mode,
  ul-CcTtRCH-ID      CcTtRCH-ID,
  dl-CcTtRCH-ID      CcTtRCH-ID,
  ul-TransportFormatSet  TransportFormatSet,
  dl-TransportFormatSet  TransportFormatSet,
  frameHandlingPriority  FrameHandlingPriority,
  payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
  ul-FP-Mode            UL-FP-Mode,
  toAWS                 ToAWS,
  toAWE                 ToAWE
}

DCH-DeleteList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Delete-RL-ReconfReqTDDItemIE }}

DCH-Delete-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Delete-RL-ReconfReqTDDItem CRITICALITY ignore      TYPE DCH-Delete-RL-ReconfReqTDDItemPRESENCE optional },
  ...
}

```



```

DCH-Delete-RL-ReconfReqTDDItem ::= SEQUENCE {
    dCH-ID          DCH-ID
}

DSCH-ModifyList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container {{DSCH-Modify-RL-ReconfReqTDDItemIE }}

DSCH-Modify-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Modify-RL-ReconfReqTDDItem    CRITICALITY ignore      TYPE DSCH-Modify-RL-ReconfReqTDDItem    PRESENCE optional    },
    ...
}

DSCH-Modify-RL-ReconfReqTDDItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    cCTrCH-ID        CCTrCH-ID,
    transportFormatSet    TransportFormatSet    OPTIONAL,
    frameHandlingPriority    FrameHandlingPriority    OPTIONAL,
    toAWE            ToAWE            OPTIONAL,
    toAWS            ToAWS            OPTIONAL
}

DSCH-AddList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container {{DSCH-Add-RL-ReconfReqTDDItemIE }}

DSCH-Add-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Add-RL-ReconfReqTDDItem    CRITICALITY ignore      TYPE DSCH-Add-RL-ReconfReqTDDItem    PRESENCE optional    },
    ...
}

DSCH-Add-RL-ReconfReqTDDItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    cCTrCH-ID        CCTrCH-ID,
    transportFormatSet    TransportFormatSet,
    frameHandlingPriority    FrameHandlingPriority    OPTIONAL,
    toAWE            ToAWE,
    toAWS            ToAWS
}

DSCH-DeleteList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container {{DSCH-Delete-RL-ReconfReqTDDItemIE }}

DSCH-Delete-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Delete-RL-ReconfReqTDDItem    CRITICALITY ignore      TYPE DSCH-Delete-RL-ReconfReqTDDItem    PRESENCE optional    },
    ...
}

DSCH-Delete-RL-ReconfReqTDDItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID
}

USCH-ModifyList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-Modify-RL-ReconfReqTDDItemIE }}

```

```

USCH-Modify-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Modify-RL-ReconfReqTDDItem      CRITICALITY ignore      TYPE USCH-Modify-RL-ReconfReqTDDItem      PRESENCE optional },
  ...
}

USCH-Modify-RL-ReconfReqTDDItem ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  cCTrCH-ID        CCTrCH-ID      OPTIONAL,
  transportFormatSet  TransportFormatSet  OPTIONAL,
}

USCH-AddList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  ProtocolIE-Container {{USCH-Add-RL-ReconfReqTDDItemIE }}

USCH-Add-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Add-RL-ReconfReqTDDItem      CRITICALITY ignore      TYPE USCH-Add-RL-ReconfReqTDDItem      PRESENCE optional },
  ...
}

USCH-Add-RL-ReconfReqTDDItem ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  cCTrCH-ID        CCTrCH-ID,
  transportFormatSet  TransportFormatSet,
}

USCH-DeleteList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  ProtocolIE-Container {{USCH-Delete-RL-ReconfReqTDDItemIE }}

USCH-Delete-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Delete-RL-ReconfReqTDDItem CRITICALITY ignore      TYPE USCH-Delete-RL-ReconfReqTDDItem      PRESENCE mandatory },
  ...
}

USCH-Delete-RL-ReconfReqTDDItem ::= SEQUENCE {
  uSCH-ID          USCH-ID
}

-- *****
--
-- 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-ReconfResp      CRITICALITY ignore      TYPE RL-InformationResponseList-RL-ReconfResp      PRESENCE optional }
}|
{ ID id-CriticalityDiagnostic      CRITICALITY ignore      TYPE CriticalityDiagnostic      PRESENCE optional
}

```

```

    },
    ...
}

RL-InformationResponseList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
ProtocolIE-Container { {RL-InformationResponseItem-RL-ReconfRespIE} }

RL-InformationResponseItem-RL-ReconfRespIE NBAP-PROTOCOL-IE ::= {
  ID id-RL-InformationResponseItem-RL-ReconfResp      CRITICALITY ignore  TYPE RL-InformationResponseItem-RL-ReconfResp  PRESENCE
  mandatory
},
...
}

RL-InformationResponseItem-RL-ReconfResp ::= SEQUENCE {
  rL-ID          RL-ID,
  dCHsToBeAdded  DCH-AddList-RL-ReconfResp  OPTIONAL,
  dCHsToBeModified DCH-ModifyList-RL-ReconfResp  OPTIONAL,
  dSCHsToBeSetup  DSCH-SetupList-RL-ReconfResp  OPTIONAL,
  dSCHsToBeModifie DSCH-ModifyList-RL-ReconfResp  OPTIONAL,
  uSCHsToBeSetup  USCH-SetupList-RL-ReconfResp  OPTIONAL,
  uSCHsToBeModifie USCH-ModifyList-RL-ReconfResp  OPTIONAL
  ...
}

DCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container {{DCH-Modify-RL-ReconfRespItemIE }}

DCH-Modify-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
  ID id-DCH-Modify-RL-ReconfRespItem  CRITICALITY ignore  TYPE DCH-Modify-RL-ReconfRespItem  PRESENCE optional },
  ...
}

DCH-Modify-RL-ReconfRespItem ::= SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress  TransportLayerAddress
}

DCH-AddList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container {{DCH-Add-RL-ReconfRespItemIE }}

DCH-Add-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
  ID id-DCH-Add-RL-ReconfRespItem  CRITICALITY ignore  TYPE DCH-Add-RL-ReconfRespItem  PRESENCE optional },
  ...
}

DCH-Add-RL-ReconfRespItem ::= SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress  TransportLayerAddress
}

DSCH-SetupList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF

```

```

    ProtocolIE-Container {{DSCH-Setup-RL-ReconfRespItemIE }}
DSCH-Setup-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Setup-RL-ReconfRespItem      CRITICALITY ignore      TYPE DSCH-Setup-RL-ReconfRespItem      PRESENCE optional      },
    ...
}
DSCH-Setup-RL-ReconfRespItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    bindingID        BindingID,
    transportLayerAddress      TransportLayerAddress
}
DSCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container {{DSCH-Modify-RL-ReconfRespItemIE }}
DSCH-Modify-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Modify-ReconfRespItem      CRITICALITY ignore      TYPE DSCH-Modify-RL-ReconfRespItem      PRESENCE optional },
    ...
}
DSCH-Modify-RL-ReconfRespItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    bindingID        BindingID,
    transportLayerAddress      TransportLayerAddress
}
USCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-Modify-RL-ReconfRespItemIE }}
USCH-Modify-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-Modify-RL-ReconfRespItem      CRITICALITY ignore      TYPE USCH-Modify-RL-ReconfRespItem      PRESENCE optional },
    ...
}
USCH-Modify-RL-ReconfRespItem ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    cCTrCH-ID        CCTrCH-ID,
    transportFormatSet      TransportFormatSet,
}
USCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-Modify-RL-ReconfRespItemIE }}
USCH-Modify-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-Modify-RL-ReconfRespItem      CRITICALITY ignore      TYPE USCH-Modify-RL-ReconfRespItem      PRESENCE optional },
    ...
}
USCH-Modify-RL-ReconfRespItem ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    cCTrCH-ID        CCTrCH-ID      OPTIONAL,
    transportFormatSet      TransportFormatSet      OPTIONAL,
}

```

```

RadioLinkReconfigurationResponse-Extensions 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 ignore  TYPE NodeB-CommunicationContextID  PRESENCE mandatory } |
  { ID id-RL-informationList-RL-Del-Req  CRITICALITY ignore  TYPE RL-informationList-RL-Del-Req  PRESENCE mandatory } ,
  ...
}

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

RL-informationList-RL-Del-Req ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{RL-informationList-RL-Del-ReqItemIE }}

RL-informationList-RL-Del-ReqItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-informationList-RL-Del-ReqItem  CRITICALITY ignore  TYPE RL-informationList-RL-Del-ReqItem  PRESENCE mandatory } ,
  ...
}

RL-informationList-RL-Del-ReqItem ::= SEQUENCE {
  rL-ID          RL-ID
}

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

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

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

DLPowerControlRequestFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{DLPowerControlRequestFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{DLPowerControlRequestFDD-Extensions}}      OPTIONAL,
  privateExtensions    PrivateExtensionContainer  {{DLPowerControlRequestFDD-PrivateExtensions}}  OPTIONAL,
  ...
}

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

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

DLPowerControlRequestFDD-PrivateExtensions NBAP-PRIVATE-EXTENSION ::= {
  ...
}

ProcedureScopeType ::= CHOICE {
  all-RL          All-RL,
  individualRL    IndividualRL
}

All-RL ::= SEQUENCE {
  dl-ReferencePower      DL-Power
}

IndividualRL ::= SEQUENCE {
  dl-ReferencePowerInformationList-PC          DL-ReferencePowerInformationList-PC
}

DL-ReferencePowerInformationList-PC ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{DL-ReferencePowerInformationList-PCItemIE }}

```

```

DL-ReferencePowerInformationList-PCItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DL-ReferencePowerInformationList-PCItem      CRITICALITY ignore TYPE DL-ReferencePowerInformationList-PCItem PRESENCE
    mandatory
  },
  ...
}

DL-ReferencePowerInformationList-PCItem ::= SEQUENCE {
  rL-ID          RL-ID,
  dl-ReferencePower DL-Power
}

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

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

DedicatedMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID      CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
  { ID id-MeasurementID                     CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory } |
  { ID id-DedicatedMeasurementObjectType-Req CRITICALITY ignore TYPE DedicatedMeasurementObjectType-Req PRESENCE mandatory } |
  { ID id-DedicatedMeasurementType         CRITICALITY ignore TYPE DedicatedMeasurementType PRESENCE mandatory } |
  { ID id-MeasurementCharacteristics        CRITICALITY ignore TYPE MeasurementCharacteristics PRESENCE mandatory } |
  { ID id-ReportCharacteristics             CRITICALITY ignore TYPE ReportCharacteristics PRESENCE mandatory } ,
  ...
}

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

DedicatedMeasurementObjectType-Req ::= ENUMERATED {
  rL          RL-DMeasureReq,
  all-RL     All-DMeasureReq
}

RL-DMeasureReq ::= SEQUENCE {
  rL-InformationList RL-InformationList-DMeasureReq
}

RL-InformationList-DMeasureReq ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{ RL-InformationList-DMeasureReqItemIE }}

RL-InformationList-DMeasureReqItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationList-DMeasureReqItem CRITICALITY ignore

```

```

TYPE    RL-InformationList-DMeasureReqItem  PRESENCE mandatory
},
...
}

RL-InformationList-DMeasureReqItem ::= SEQUENCE {
    rL-ID                RL-ID,
    dPCH-ID              DPCH-ID
}

All-RL-Req ::= SEQUENCE {
    dedicatedMeasurementValue    DedicatedMeasurementValue
}

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

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

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

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

DedicatedMeasurementObjectType-Resp ::= ENUMERATED {
    rL                RL-Resp,
    all-RL            All-RL-resp
}

RL-Resp ::= SEQUENCE {
    rL-InformationList-DMeasureResponse    RL-InformationList-DmeasureResponse
}

RL-InformationList-DmeasureResponse ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{RL-Information-DMeasureResponseItemIE }}

RL-Information-DMeasureResponseItemIE NBAP-PROTOCOL-IES ::= {

```



```

{ ID id-RL-Information-DMeasureResponseItem      CRITICALITY ignore      TYPE      RL-Information-DMeasureResponseItem PRESENCE mandatory
},
...
}

RL-Information-DMeasureResponseItem ::= SEQUENCE {
    rL-ID                RL-ID,
    dedicatedMeasurementValue      DedicatedMeasurementValue
}

All-RL-Resp ::= SEQUENCE {
    dedicatedMeasurementValue      DedicatedMeasurementValue
}

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

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

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-CriticalityDiagnostic            CRITICALITY ignore      TYPE CriticalityDiagnostic            PRESENCE optional
    },
    ...
}

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

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

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

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-Rep CRITICALITY ignore      TYPE DedicatedMeasurementObjectType-Rep PRESENCE mandatory } |
    { ID id-CFN                            CRITICALITY ignore      TYPE CFN                            PRESENCE mandatory },
    ...
}

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

DedicatedMeasurementObjectType-Rep ::= ENUMERATED {
    rL                RL-Rep,
    all-RL            All-RL-Rep
}

RL-Rep ::= SEQUENCE {
    rL-InformationList-DMeasureReport          RL-InformationList-DMeasureReport
}

RL-InformationList-DmeasureReport ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{RL-Information-DMeasureReportItemIE }}

RL-Information-DMeasureReportItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-DMeasureReportItem CRITICALITY ignore TYPE RL-Information-DMeasureReportItem PRESENCE mandatory },
    ...
}

RL-Information-DMeasureReportItem ::= SEQUENCE {
    rL-ID                RL-ID,
    dedicatedMeasurementValue    DedicatedMeasurementValue
}

All-RL-Rep ::= SEQUENCE {
    dedicatedMeasurementValue    DedicatedMeasurementValue
}

-- *****
--
-- 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}}
  ...
}

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

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

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

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

RadioLinkFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID    CRITICALITY ignore    TYPE CRNC-CommunicationContextID    PRESENCE mandatory } |
  { ID id-RL-InformationList-RL-FailInd  CRITICALITY ignore    TYPE RL-InformationList-RL-FailInd  PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic           CRITICALITY ignore    TYPE CriticalityDiagnostic         PRESENCE optional
},
  ...
}

```

```

}

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

RL-InformationList-RL-FailInd ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{ RL-InformationList-RL-FailIndItemIE }}

RL-InformationList-RL-FailInd ItemIE NBAP-PROTOCOL-IES ::= {
    { I D id- RL-InformationList-RL-FailIndItem CRITICALITY ignore      TYPE RL-InformationList-RL-FailIndItem      PRESENCE mandatory },
    ...
}

RL-InformationList-RL-FailIndItem ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause
}

-- *****
--
-- 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-RL-InformationList-RL-RestoreInd CRITICALITY ignore  TYPE RL-InformationList-RL-RestoreInd PRESENCE mandatory },
    ...
}

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

RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{RL-InformationList-RL-RestoreIndItemIE }}

RL-InformationList-RL-RestoreIndItemIE NBAP-PROTOCOL-IES ::= {
    { I D id-RL-InformationList-RL-RestoreIndItem CRITICALITY ignore      TYPE RL-InformationList-RL-RestoreIndItem PRESENCE mandatory },
    ...
}

RL-InformationList-RL-RestoreIndItem ::= SEQUENCE {
    rL-ID          RL-ID
}

```

```

-- *****
--
-- COMPRESSED MODE PREPARE FDD
--
-- *****

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

CompressedModePrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID      CRITICALITY ignore      TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
    { ID id-TGP1                              CRITICALITY ignore      TYPE TGP1 PRESENCE mandatory } |
    { ID id-TGP2                              CRITICALITY ignore      TYPE TGP2 PRESENCE optional } |
    { ID id-TGL                               CRITICALITY ignore      TYPE TGL PRESENCE mandatory } |
    { ID id-TGD                               CRITICALITY ignore      TYPE TGD PRESENCE mandatory } |
    { ID id-UL-DL-CompressedModeSeletion      CRITICALITY ignore      TYPE UL-DL-CompressedModeSeletion PRESENCE mandatory } |
    { ID id-CompessesModeMethod              CRITICALITY ignore      TYPE CompessesModeMethod PRESENCE mandatory } |
    { ID id-GapPositionMode                  CRITICALITY ignore      TYPE GapPositionMode PRESENCE mandatory } |
    { ID id-SN                               CRITICALITY ignore      TYPE SN PRESENCE optional } |
    -- This IE is present if Gap position mode = 'flexible position'--
    { ID id-DL-FrameType                     CRITICALITY ignore      TYPE DL-FrameType PRESENCE mandatory } |
    { ID id-ScramblingCodeChange             CRITICALITY ignore      TYPE ScramblingCodeChange PRESENCE optional } |
    -- This IE is present if Compressed mode method = 'SF/2' --
    { ID id-PowerControlMode                 CRITICALITY ignore      TYPE PowerControlMode PRESENCE mandatory } |
    { ID id-PowerResumeMode                  CRITICALITY ignore      TYPE PowerResumeMode PRESENCE mandatory } |
    { ID id-UL-DeltaEb-No                    CRITICALITY ignore      TYPE UL-DeltaEb-No PRESENCE mandatory } |
    { ID id-UL-DeltaEb-NoAfter               CRITICALITY ignore      TYPE UL-DeltaEb-NoAfter PRESENCE mandatory },
    ...
}

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

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

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

CompressedModeReadyFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNCCommunicationContextID      CRITICALITY ignore      TYPE CRNC-CommunicationContextID PRESENCE mandatory },
    ...
}

```

```

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

-- *****
--
-- ERROR INDICATION
--
-- *****

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

ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cause          CRITICALITY ignore      TYPE Cause          PRESENCE mandatory } |
    { ID id-CRNC-CommunicationContextID      CRITICALITY ignore      TYPE CRNC-CommunicationContextID      PRESENCE optional } |
    -- This IE is only present when message is transmitted by RNC --
    { ID id-NodeB-CommunicationContextID      CRITICALITY ignore      TYPE NodeB-CommunicationContextID      PRESENCE optional } |
    -- This IE is only present when message is transmitted by NodeB --
    { ID id-CriticalityDiagnostic      CRITICALITY ignore      TYPE L3-CriticalityDiagnostic      PRESENCE optional },
    -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
    ...
}

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

-- *****
--
-- PRIVATE MESSAGE
--

```

```

-- *****
PrivateMessage ::= SEQUENCE {
|   privateExtensionsPrivateIEs     ProtocolExtensionContainerPrivateIE-Container   {{PrivateExtensionsPrivateMessage-IEs}},
|   ...
| }
| PrivateExtensionsPrivateMessage-IEs NBAP-PRIVATE-EXTENSION-IES ::= {
|   ...
| }
END

```

9.3.4 NBAP Information Elements

```

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

NBAP-IES
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxTFcount,
    maxnoofTFCs,
    maxCTF-1,
    maxRM,

FROM NBAP-Constants;

DTX-InsertionPoint ::= INTEGER
DedicatedMeasurementValue ::= INTEGER
DeltaTPC ::= INTEGER

-----
-- A
-----

-- to do
AcknowledgedRA-TriesValue ::= TBD

AddOrDeleteIndicator ::= ENUMERATED {
add,
delete
}

AICH-TransmissionTiming ::= ENUMERATED {

```



```

timing0,
timing1
}

AvailabilityStatus ::= ENUMERATED {
empty,
in-test,
failed,
power-off,
off-line,
off-duty,
dependency,
degraded,
not-installed,
log-full,
...
}

--to do
AveragingDuration ::= TBD

-----
-- B
-----

BCCH-ModificationTime ::= INTEGER (0 | 2 | 4 | .. | 4095)

BindingID ::= OCTET STRING (SIZE (4))

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.

BurstType ::= ENUMERATED {
type1,
type2
}

-----
-- C
-----

Cause ::= ENUMERATED {
radioNetworkLayer      RadioNetworkLayerCause,
transportLayer         TransportLayerCause,
protocol               ProtocolCause,
misc                   MiscellaneousCause
...
}

```

```
CCTrCH-ID ::= INTEGER (1..15)

CellID-Length ::= ENUMERATED {
    short,
    medium,
    long
}

CFN ::= INTEGER (0..255)

ChipOffset ::= INTEGER (0..38399)

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

CodingRate ::= ENUMERATED {
    rate1-2,
    rate1-3
}

CommonMeasurementObjectType ::= ENUMERATED {
    cell,
    rach,
    ...
}

CommonMeasurementType ::= SEQUENCE {
    rssi                RSSI-Value,
    transmitted-carrier-power    TransmittedCarrierPowerValue,
    acknowledged-ra-tries    AcknowledgedRA-TriesValue,
    time-slot-iscp        TimeSlotISCP-Value,
    ...
}

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

CompressedModeMethod ::= ENUMERATED {
    puncturing,
    sF-2,
    gating,
    none
}

ConfigurationGenerationID ::= INTEGER (0..255)

CRC-Size ::= ENUMERATED {
    size0,
    size12,
    size16,
    size24
}
```

```

}

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

CTFC ::= INTEGER (0..maxCTF-1)

-----
-- D
-----

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

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

DedicatedMeasurementObjectType1 ::= ENUMERATED {
    cell,
    rach,
    ...
}

DedicatedMeasurementObjectType2 ::= SEQUENCE {
    sir-value          SIR-Value          OPTIONAL,
    sir-error-value   SIR-ErrorValue     OPTIONAL,
    transmitted-code-power TransmittedCodePowerValue OPTIONAL,
    time-slot-iscp    TimeSlotISCP-Value OPTIONAL,
    ...
}

DedicatedMeasurementObjectType3 ::= ENUMERATED {
    rl,
    all-rl,
    ...
}

-- Reference: 25.215 and 25.225
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    timeslot-iscp,
    ...
}

D-FieldLength ::= ENUMERATED {
    d-length1,
    d-length2
}

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

```

```

}

DiversityIndication ::= ENUMERATED {
combined,
not-combined
}

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

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

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

-- -35.15 is transformed into 0..50. 0.1 steps gives 0..500
-- Power0 indicates -35dB, Power1 indicates -34.9dB, ..., Power500 indicates 15dB
DL-Power ::= ENUMERATED {
power0,
power1,
...
}

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

DPCH-ID ::= INTEGER (0..15)

DPCH-Offset ::= INTEGER (0..255)

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

-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TransportFormatSet ::= TBD

-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TransportFormatCombinationSet ::= TBD

DTX-InsertionPosition ::= ENUMERATED {
fixed,
flexible
}

DynamicTransportFormatInformation ::= SEQUENCE (SIZE (1..maxTFcount)) OF
SEQUENCE {
numberOfTransportBlocks      NumberOfTransportBlocks,

```

```

transportBlockSize      TransportBlockSize  OPTIONAL
-- This IE is only present if Number of Transport Blocks is greater than 0 --,
mode-dynamicTFS        Mode-DynamicTFS
    ...
}

-----
-- E
-----

EventA ::= SEQUENCE {
    measurementThreshold      MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime  OPTIONAL
}

EventB ::= SEQUENCE {
    measurementThreshold      MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime  OPTIONAL
}

EventC ::= SEQUENCE {
    measurementIncreaseThreshold MeasurementIncreaseThreshold,
    measurementChangeTime      MeasurementChangeTime
}

EventD ::= SEQUENCE {
    measurementDecreaseThreshold MeasurementDecreaseThreshold,
    measurementChangeTime      MeasurementChangeTime
}

EventE ::= SEQUENCE {
    measurementThreshold1      MeasurementThreshold1,
    measurementThreshold2      MeasurementThreshold2  OPTIONAL,
    measurementHysteresisTime  MeasurementHysteresisTime  OPTIONAL,
    reportPeriodicity          ReportPeriodicity    OPTIONAL
}

EventF ::= SEQUENCE {
    measurementThreshold1      MeasurementThreshold1,
    measurementThreshold2      MeasurementThreshold2  OPTIONAL,
    measurementHysteresisTime  MeasurementHysteresisTime  OPTIONAL,
    reportPeriodicity          ReportPeriodicity    OPTIONAL
}

-----
-- F
-----

-- The maximum value is equal to the DL spreading factor □ --
FDD-DL-ChannalisationCodeNumber ::= INTEGER(0.. 255)

-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [TS 25.211] --
FDD-S-CCPCH-Offset ::= INTEGER (0.. 149)

```

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

-----
-- G
-----

GapPeriod ::= INTEGER(0..255)

Gap Position Mode ::= ENUMERATED {
fixed,
flexible
}

-----
-- H
-----

-----
-- I
-----

-- to do
IB-SG ::= BIT STRING

IB-SG-POS ::= INTEGER (0..4095)

IB-SG-REP ::= INTEGER {rep(16), rep(32), rep(64), rep(128), rep(256), rep(512), rep(1024), rep(2048)}

IB-Type ::= Enumerated {
MIB,
SIB1,
SIB2,
SIB12
}

IndicationType ::= ENUMERATED {
noFailure,
serviceImpacting,
cellControl,
...
}

-----
-- J
-----

-----
-- L
-----
```

```
LocalCell-ID ::= INTEGER (0..268435455)

-----
-- M
-----
-- dBm, granularity 1 dBm
-- dl-power0 indicates 0 dBm
MaximumDL-PowerCapability ::= ENUMERATED {
dl-power0,
dl-power1,
dl-power2,
...
}

-- Unit dBm, 0 to 50, Granularity 1 dB
MaximumTransmissionPower ::= ENUMERATED {
power0,
power1,
power2,
...
}

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

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

-- 10ms to 1min, Step10ms
MeasurementChangeTime ::= ENUMERATED {
time10ms,
time20ms,
time30ms,
...
}

MeasurementCharacteristics ::= SEQUENCE {
    measurementFrequency      MeasurementFrequency,
    averagingDuration          AveragingDuration
}

-- to do
MeasurementDecreaseThreshold ::= TBD

-- to do
MeasurementFrequency ::= TBD

-- to do
MeasurementIncreaseThreshold ::= TBD

-- to do
-- 10ms to 1min, Step10ms --
```

```
MeasurementHysteresisTime ::= ENUMERATED {
time10ms,
time20ms,
time30ms,
...
}

MeasurementID ::= INTEGER (0..1048575)

-- to do
MeasurementThreshold ::= TBD

-- to do
MeasurementThreshold1 ::= TBD

-- to do
MeasurementThreshold2 ::= TBD

MeasurementType ::= ENUMERATED {
sCH,
syncRACH-access
}

MessageDiscriminator ::= ENUMERATED {
common,
dedicated
}

MidambleShift ::= INTEGER (0..15)

MinimumSpreadingFactor ::= ENUMERATED {
sF4,
sF16,
sF32,
sF64,
sF128,
sF256,
sF512
}

MinUL-ChannelisationCodeLength ::= ENUMERATED {
code-length4,
code-length8,
code-length16,
code-length32,
code-length64,
code-length128,
code-length256
}

MiscellaneousCause ::= ENUMERATED {
control-processing-overload,
hardware-failure,
oam-intervention,
```



```

not-enough-user-plane-processing-resources,
unspecified
}

Mode-DynamicTFS ::= CHOICE {
    tdd-mode-dynamic    TransmissionTimeInterval-Dynamic,
    ...
}

Mode-SemiStaticTFS ::= CHOICE {
    tdd-mode-semistatic TransmissionTimeInterval-SemiStatic,
    ...
}

-----
-- N
-----

-- to do
NumberOfChannelElements ::= TBD

NodeB-CommunicationContextID ::= INTEGER (0..1048576)

NumberOfTransportBlocks ::= INTEGER (0..4095)

-----
-- O
-----

-----
-- P
-----

PagingIndicatorLength ::= ENUMERATED {
ind-length2,
ind-length4,
ind-length8
}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
cRC-Included,
cRC-NotIncluded
}

PD ::= INTEGER(0..2047)

PICH-Mode ::= ENUMERATED {
noofPI18,
noofPI36,
noofPI72,
noofPI144
}

PilotBitsUsedIndicator ::= ENUMERATED {

```

```
pilot-bits-used,
pilot-bits-not-used
}

PowerControlMode ::= ENUMERATED {
pcm0,
pcm1,
...
}

-- Chips. Step size is 3 chips. 0=0 chips, 1=3 chips .. --
--** TODO. -15..40 is transformed to 0..55. 0.1 steps gives 0..550 **
PowerOffset ::= INTEGER (0..24)

PowerResumeMode ::= ENUMERATED {
prm0,
prm1,
...
}

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

PreambleScramblingCode ::= INTEGER (0..4095)

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

-- Unit dBm, -15 to 40, Granularity 0.1 dB
-- cpich-power1 indicates 5 dB
PrimaryCPICH-Power ::= ENUMERATED {
cpich-power1,
cpich-power2,
...
}

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)

ProtocolCause ::= 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
}

-- PCCPCH Power unit dBm
```

```
-- PCCPCH Power step 0.1dBm
PCCPCH-power ::= INTEGER (-15..40)

PSCH-TimeSlot ::= INTEGER (0..6)

PSCH-Power ::= INTEGER (0..511)

PUSCH-Offset ::= INTEGER (0..255)

-----
-- R
-----

-- SF
RACH-SlotFormat ::= ENUMERATED {
format256,
format128,
format64,
format32
}

-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 14=Sub Channel Number 14 --
RACH-SubChannelNumbers ::= BIT STRING (SIZE (15))

RadioNetworkLayerCause ::= Enumerated {
unknown-C-ID,
cell-not-available,
power-level-not-supported,
ul-scramblingcode-already-in-use,
dl-radio-resources-not-available,
ul-radio-resources-not-available,
rl-Already-ActivatedorAllocated,
nodeB-Resources-Unavailable,
insufficient-physical-channel-resources,
measurement-not-supported-for-the-object,
macrodiversity-combining-not-possible,
reconfiguration-not-allowed,
requested-configuration-not-supported,
synchronization-failure,
unspecified
}

RateMatchingAttribute ::= INTEGER (1..maxRM)

RepetitionLength ::= ENUMERATED {
length1,
length2,
length4,
length8
}

ReportCharacteristicsType ::= CHOICE {
onDemand          NULL,
periodic          ReportPeriodicity,
```

```

    event-a          EventA,
    event-b          EventB,
    event-c          EventC,
    event-d          EventD,
    event-e          EventE,
    event-f          EventF
}

-- 10ms to lmin, step 10ms or
-- lmin to lhour, step lmin
ReportPeriodicity ::= CHOICE {
    msec          INTEGER (1..1000),
    min          INTEGER (1..60)
}

ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled
}

RLC-Mode ::= ENUMERATED {
    acknowledgedMode,
    unacknowledgedMode,
    transparentMode
}

RL-ID ::= INTEGER (0..31)

RNC-ID ::= INTEGER (0..4095)

-- -30..-100 step 0.1
-- rssi1 indicates -30
RSSI-Value ::= ENUMERATED {
    rssi1,
    rssi2,
    ...
}
-----
-- S
-----

ScramblingCodeChange ::= ENUMERATED {
    change,
    no-change
}

Scrambling Code Word Number ::= INTEGER (0..255)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..8)

SegmentType ::= ENUMERATED {
    first,
    subsequent,
    last,

```

```

complete
}

SemiStaticTransportFormatInformation ::= SEQUENCE {
    transmissionTimeInterval      TransmissionTimeInterval,
    typeOfChannelCoding           TypeOfChannelCoding,
    codingRate                     CodingRate           OPTIONAL
    -- This IE is only present if IE Type of channel coding is Convolutional or Turbo --,
    rateMatchingAttribute         RateMatchingAttribute,
    CRC-Size                       CRC-Size,
    mode-semistatic                Mode-SemiStatic
}

S-FieldLength ::= ENUMERATED {
    s-length1,
    s-length2
}

SIB-DeletionIndicator ::= ENUMERATED {
    noDeletion,
    deletion
}

SIB-Originator ::= ENUMERATED {
    nodeB,
    CRNC
}

--** TODO. -10..10 is transformed to 0..10. 0.1 steps gives 0..200 **
-- sir-error-value1 indicates 0 dB
SIR-ErrorValue ::= ENUMERATED {
    sir-error-value1,
    sir-error-value2,
    ...
}

--** TODO. -10..20 is transformed to 0..30. 0.1 steps gives 0..300 **
-- sir-value1 indicates 0 dB
SIR-Value ::= ENUMERATED {
    sir-value1,
    sir-value2,
    ...
}

SSDT-CellIdentity ::= ENUMERATED {a, b, c, d, e, f, g, h}

SSDT-Indication ::= ENUMERATED {
    ssdtActiveInTheUE,
    ssdtNotActiveInTheUE
}

STTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

```

```

}

SSDT-SupportIndicator ::= ENUMERATED {
sSDT-not-supported,
sSDT-Supported
}

ShutdownTimer ::= INTEGER (1..3600)

SynchronisationMethod ::= ENUMERATED {
external-reference,
locked-toMaster-cell,
one-time-synchronisation
}

-----
-- T
-----

T-Cell ::= ENUMERATED {
  chip-0,
  chip-256,
  chip-512,
  chip-768,
  chip-1024,
  chip-1280,
  chip-1536,
  chip-1892,
  chip-2048,
  chip-2304
}

TDD-ChannelisationCode ::= ENUMERATED {
channelisationCode1-1,
channelisationCode2-1,
channelisationCode2-2,
channelisationCode4-1,
channelisationCode4-2,
...
}

-- the ChipOffset is -19200 to + 19199
TDD-ChipOffset ::= INTEGER (-19200..19199)

TransmissionTimeInterval-Dynamic ::= SEQUENCE (SIZE (1..maxTTIcount)) OF
  ENUMERATED {tti10, tti20, tti40, tti80}
}

TransmissionTimeInterval-SemiStatic ::= ENUMERATED {
frameRelated,
timeSlotRelated
}

```

```

TDD-S-CCPCH-Offset ::= INTEGER (0..63)

TFPI-Presence ::= ENUMERATED {
present,
not-present
}

TFPI-SignallingMode ::= ENUMERATED {
normal,
split
}

TFCS ::= SEQUENCE (SIZE (1..maxnoofTFCS)) OF
SEQUENCE {
    cTFC          CTFC
}

TFS ::= SEQUENCE {
    dynamicTransportFormatInformation
    semiStaticTransportFormatInformation
}

TGD ::= INTEGER (0..255)

TGL ::= INTEGER (3,4,7,10,14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl
}

-- to do
TimeSlotISCP-Value ::= TBD

TimeSlotStatus ::= ENUMERATED {
    active,
    not-active
}

ToAWE ::= INTEGER (0..2559) -- msec. --
ToAWS ::= INTEGER (0..1279) -- msec. --

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

Transmit Diversity Indicator ::= ENUMERATED {

```

```

DynamicTransportFormatInformation,
SemiStaticTransportFormatInformation

```

```

active,
Inactive
}

TransmissionTimeInterval ::= ENUMERATED {
time-interval10,
time-interval20,
time-interval40,
time-interval80
} -- mec --

--** TODO. -35..15 is transformed to 0..50. 0.1 steps gives 0..500 **
-- carrier-power1 indicates 5 dB
TransmittedCarrierPowerValue ::= ENUMERATED {
carrier-power1,
carrier-power2,
...
}

--** TODO. -35..15 is transformed to 0..50. 0.1 steps gives 0..500 **
-- code-power1 indicated 5 dB
TransmittedCodePowerValue ::= ENUMERATED {
code-power1,
code-power2,
...
}

TransportBlockSize ::= INTEGER (1..5000)
-- bit --

TSTD-Indicator ::= ENUMERATED {
active,
inactive
}

TransportLayerAddress ::= OCTET STRING (SIZE (1..20, ...))

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

TypeOfChannelCoding ::= ENUMERATED {
no-coding,
convolutional,
turbo
}

-----
-- U
-----

```



```

UARFCN ::= INTEGER (174 .. 474)

UL-DL-CompressedModeSelection ::= ENUMERATED {
ul-only,
dl-only,
both-UlandDL
}

UL-DPCH-SlotFormat ::= INTEGER (0..5)

UL-EbNo ::= INTEGER (0..255)
-- Resolution is 0.1 dB, range 0-25.5 dB --

UL-FP-Mode ::= ENUMERATED {
normal,
silent
}

-- unit dBm, step 0.1dBm
UL-InterferenceLevel ::= INTEGER (-128..60)

UL-PunctureLimit ::= INTEGER (0..100)

UL-ScramblingCode ::= SEQUENCE {
    uL-ScramblingCodeNumber    UL-ScramblingCodeNumber,
    uL-ScramblingCodeLength    UL-ScramblingCodeLength
}

-- 2^24
UL-ScramblingCodeLength ::= INTEGER (0..16777215)

UL-ScramblingCodeNumber ::= ENUMERATED {
short,
long
}

UplinkDeltaEb-No ::= ENUMERATED {
deltaEb-No-6dB,
...
}

UplinkDeltaEb-No-after ::= ENUMERATED {
deltaEb-No-after-6dB,
...
}

END

```

9.3.5 NBAP Common Data Type Definitions

```

-- *****
--
-- Common definitions

```

```

--
-- *****
NBAP-CommonDataTypes -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality      ::= ENUMERATED { reject, ignore, notify }

MessageDiscriminator ::= ENUMERATED { common, dedicated }

Presence        ::= ENUMERATED { optional, conditional, mandatory }

PrivateExtensionIDPrivateIE-ID ::= CHOICE {
  local          INTEGER (0..65535),
  global         OBJECT IDENTIFIER
}

ProcedureID      ::= SEQUENCE {
  procedureCode  INTEGER (0..255),
  ddMode        ENUMERATED { tdd, fdd, common }
}

ProtocolExtensionID ::= INTEGER (0..65535)

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

TransactionID    ::= INTEGER (0..255)

END

```

9.3.6 NBAP Extension Definitions

```

-- *****
--
-- Container definitions
--
-- *****

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

BEGIN

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

IMPORTS
  Criticality,
  Presence,

```

```

|   PrivateExtensionIDPrivateIE-ID,
|   ProtocolExtensionID,
|   ProtocolIE-ID
FROM NBAP-CommonDataTypes

|   maxProtocolExtensions,
|   maxPrivateExtensionsmaxPrivateIEs,
|   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
}
WITH SYNTAX {
    ID      &id
    CRITICALITY &criticality
    EXTENSION &Extension
}
-- *****
--
-- Class Definition for Private Extensions IEs
--
-- *****
NBAP-PRIVATE-EXTENSION-IES ::= CLASS {
    &id      PrivateExtensionIDPrivateIE-ID,
    &criticality  Criticality,
    &ExtensionValue
}
WITH SYNTAX {
    ID      &id
    CRITICALITY &criticality
    EXTENSIONTYPE &ExtensionValue
}
-- *****
--
-- 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 Extensions IEs
--
-- *****

PrivateExtensionContainer-PrivateIE-Container {NBAP-PRIVATE-EXTENSION-IES : ExtensionSetParam IEsSetParam} ::=
  SEQUENCE (SIZE (1..maxPrivateExtensionsmaxPrivateIEs)) OF
    PrivateExtensionField-PrivateIE-Field {{ExtensionSetParam IEsSetParam}}

PrivateExtensionField-PrivateIE-Field {NBAP-PRIVATE-EXTENSION-IES : ExtensionSetParam IEsSetParam} ::= SEQUENCE {
  id          NBAP-PRIVATE-EXTENSION-IES.&id

```

```

    ({ExtensionSetParamIEsSetParam}),
    criticality NBAP-PRIVATE-EXTENSIONIES.&criticality
    ({ExtensionSetParamIEsSetParam}{@id}),
    extensionValuevalue NBAP-PRIVATE-EXTENSIONIES.&ExtensionValue
    ({ExtensionSetParamIEsSetParam}{@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-commonTransportChannelDeletion  INTEGER ::= 10
id-commonTransportChannelReconfiguration  INTEGER ::= 11
id-commonTransportChannelSetup  INTEGER ::= 12
id-compressedModeControlCancellation  INTEGER ::= 13
id-compressedModeControlCommit  INTEGER ::= 14
id-compressedModeControlPreparation  INTEGER ::= 15
id-dedicatedMeasurementFailure  INTEGER ::= 16
id-dedicatedMeasurementInitiation  INTEGER ::= 17
id-dedicatedMeasurementReport  INTEGER ::= 18
id-dedicatedMeasurementTermination  INTEGER ::= 19
id-dlPowerControl        INTEGER ::= 20
id-neighbourCellMeasurement  INTEGER ::= 21
id-radioLinkAddition      INTEGER ::= 22
id-radioLinkDeletion      INTEGER ::= 23
id-radioLinkFailure       INTEGER ::= 24
id-radioLinkReconfigurationCommit  INTEGER ::= 25

```

```

id-radioLinkReconfirurationCancel          INTEGER ::= 26
id-radioLinkRestoration                    INTEGER ::= 27
id-radioLinkSetup                          INTEGER ::= 28
id-resourceStatusIndication                INTEGER ::= 29
id-synchronisationAdjustment               INTEGER ::= 30
id-synchronisationFailure                  INTEGER ::= 31
id-synchronisationRestart                  INTEGER ::= 32
id-synchronisedRadioLinkReconfigurationPreparation INTEGER ::= 33
id-systemInformationUpdate                  INTEGER ::= 34
id-unblockResource                         INTEGER ::= 35
id-unsynchronisedRadioLinkReconfiguration  INTEGER ::= 36

-- *****
--
-- Extension constants
--
-- *****

maxPrivateExtensions-maxPrivateIEs         INTEGER ::= 65535
maxProtocolExtensions                      INTEGER ::= 65535
maxProtocolIEs                             INTEGER ::= 65535

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

maxSF                                       INTEGER ::= 10
maxnoofDLCodes                            INTEGER ::= 10
maxnoofRLs                                INTEGER ::= 10
maxnoofDPCHs                              INTEGER ::= 10
maxnoofSCCPCHs                            INTEGER ::= 10
maxnoofPRACHs                             INTEGER ::= 10
maxnoofDCHs                               INTEGER ::= 10
maxnoofDSCHs                              INTEGER ::= 10
maxnoofFACHs                              INTEGER ::= 10
maxnoofCCTrCHs                            INTEGER ::= 10
maxnoofPCHs                               INTEGER ::= 10
maxnoofPUCSHs                             INTEGER ::= 10
maxnoofTFCs                               INTEGER ::= 10
maxnoofUSCHs                              INTEGER ::= 10
maxUCIDinNodeB                            INTEGER ::= 10
maxCellinNodeB                            INTEGER ::= 10
maxCCPInNodeB                             INTEGER ::= 10
maxCTF-1                                  INTEGER ::= 10
maxLocalCellinNodeB                      INTEGER ::= 10
maxPCHinNodeB                             INTEGER ::= 10
maxRACHCell                               INTEGER ::= 10
maxnoofFACHCell                           INTEGER ::= 10
maxPCHCell                                INTEGER ::= 10
maxUSCHCell                               INTEGER ::= 10
maxAICHCell                               INTEGER ::= 10
maxMIBSEG                                 INTEGER ::= 10

```

```

maxSIBSEG                INTEGER ::= 10
maxnoofFDDNeighbours     INTEGER ::= 10
maxnoofTDDNeighbours     INTEGER ::= 10
maxTFcount               INTEGER ::= 10
maxnoofTFCs              INTEGER ::= 10
maxFACHCell              INTEGER ::= 10
maxnoCCTrCH              INTEGER ::= 10
maxnoCCTrCHs             INTEGER ::= 10
maxnoofCCTrCH            INTEGER ::= 10
maxnoofDPCH              INTEGER ::= 10
maxnoofPUSHs             INTEGER ::= 10
maxnoofRL-1              INTEGER ::= 10
maxnoofRL-2              INTEGER ::= 10
maxRM                    INTEGER ::= 10

-- *****
--
-- IEs
--
-- *****

id-AICH-Information-ResourceStatIndItem      INTEGER ::= 0
id-AICH-ParametersList                      INTEGER ::= 1
id-AICH-ParametersListItem                  INTEGER ::= 2
id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD  INTEGER ::= 3
id-AllowedSlotFormatInformationListItem-CTCHsetup-Req-FDD  INTEGER ::= 4
id-BlockingPriorityIndicator                 INTEGER ::= 5
id-CCTrCH-ParametersList                   INTEGER ::= 6
id-CCTrCH-ParametersListItem               INTEGER ::= 7
id-CFN                                       INTEGER ::= 8
id-CRNC-CommunicationContextID              INTEGER ::= 9
id-CRNCCommunicationContextID              INTEGER ::= 10
id-Cause                                     INTEGER ::= 11
id-Cell-Information-ResourceStatIndItem     INTEGER ::= 12
id-Cell-InformationItem                     INTEGER ::= 13
id-Cell-InformationList                     INTEGER ::= 14
id-Cell-Parameter                           INTEGER ::= 15
id-Cell-ParametersItem                      INTEGER ::= 16
id-Cell-ParametersList                      INTEGER ::= 17
id-CellParameter                           INTEGER ::= 18
id-CommonMeasurementObjectType              INTEGER ::= 19
id-CommonMeasurementType                    INTEGER ::= 20
id-CommonPhysicalChannelID                  INTEGER ::= 21
id-CommonPhysicalChannelType-CTCHsetup-Req-FDD  INTEGER ::= 22
id-CommonPhysicalChannelType-CTCHsetup-Response  INTEGER ::= 23
id-CommunicationControlPort-InformationItem    INTEGER ::= 24
id-CommunicationControlPortID               INTEGER ::= 25
id-CommunicationControlPortInformation-ResourceStatIndItem  INTEGER ::= 26
id-CommunicationControlPortInformationList    INTEGER ::= 27
id-CompressesModeMethod                     INTEGER ::= 28
id-ConfigurationGenerationID                INTEGER ::= 29
id-DCH-Add-RL-ReconfPrepFDDItem             INTEGER ::= 30
id-DCH-Add-RL-ReconfPrepTDDItem            INTEGER ::= 31

```


id-DCH-Add-RL-ReconfReadyItem	INTEGER ::= 32
id-DCH-Add-RL-ReconfReqFDDItem	INTEGER ::= 33
id-DCH-Add-RL-ReconfReqTDDItem	INTEGER ::= 34
id-DCH-AddItem-RL-ReconfResp	INTEGER ::= 35
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 36
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 37
id-DCH-AddList-RL-ReconfReqFDD	INTEGER ::= 38
id-DCH-AddList-RL-ReconfReqTDD	INTEGER ::= 39
id-DCH-Delete-RL-ReconfPrepFDDItem	INTEGER ::= 40
id-DCH-Delete-RL-ReconfPrepTDDItem	INTEGER ::= 41
id-DCH-Delete-RL-ReconfReqFDDItem	INTEGER ::= 42
id-DCH-Delete-RL-ReconfReqTDDItem	INTEGER ::= 43
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 44
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 45
id-DCH-DeleteList-RL-ReconfReqFDD	INTEGER ::= 46
id-DCH-DeleteList-RL-ReconfReqTDD	INTEGER ::= 47
id-DCH-Information-RL-SetupReqFDDItem	INTEGER ::= 48
id-DCH-Information-RL-SetupReqTDDItem	INTEGER ::= 49
id-DCH-InformationList-RL-SetupReqFDD	INTEGER ::= 50
id-DCH-InformationList-RL-SetupReqTDD	INTEGER ::= 51
id-DCH-InformationResponse-RL-SetupFailFDDItem	INTEGER ::= 52
id-DCH-InformationResponse-RL-setupResTDDItem	INTEGER ::= 53
id-DCH-InformationResponseItem	INTEGER ::= 54
id-DCH-Modify-RL-ReconfPrepFDDItem	INTEGER ::= 55
id-DCH-Modify-RL-ReconfPrepTDDItem	INTEGER ::= 56
id-DCH-Modify-RL-ReconfReadyItem	INTEGER ::= 57
id-DCH-Modify-RL-ReconfReqFDDItem	INTEGER ::= 58
id-DCH-Modify-RL-ReconfReqTDDItem	INTEGER ::= 59
id-DCH-ModifyItem-RL-ReconfResp	INTEGER ::= 60
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 61
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfReqFDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfReqTDD	INTEGER ::= 64
id-DL-CCTrCH-Information-RL-ReconfPrepTDDItem	INTEGER ::= 65
id-DL-CCTrCH-Information-RL-ReconfReqTDDItem	INTEGER ::= 66
id-DL-CCTrCH-Information-RL-SetupReqTDDItem	INTEGER ::= 67
id-DL-CCTrCH-InformationItem	INTEGER ::= 68
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 69
id-DL-CCTrCH-InformationList-RL-ReconfReqTDD	INTEGER ::= 70
id-DL-CCTrCH-InformationList-RL-SetupReqTDD	INTEGER ::= 71
id-DL-CCTrCHInformationItem	INTEGER ::= 72
id-DL-CCTrCHInformationList	INTEGER ::= 73
id-DL-CodeInformation	INTEGER ::= 74
id-DL-CodeInformation-RL-ReconfPrepFDDItem	INTEGER ::= 75
id-DL-CodeInformation-RL-SetupReqFDDItem	INTEGER ::= 76
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 77
id-DL-DPCH-Information-RL-ReconfPrepTDDItem	INTEGER ::= 78
id-DL-DPCH-Information-RL-SetupReqTDDItem	INTEGER ::= 79
id-DL-DPCH-InformationItem	INTEGER ::= 80
id-DL-DPCH-InformationItem-RL-ReconfReqFDD	INTEGER ::= 81
id-DL-DPCH-InformationItem-RL-SetupReqFDD	INTEGER ::= 82
id-DL-FrameType	INTEGER ::= 83
id-DL-ReferencePowerInformationItem	INTEGER ::= 84
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 85

```

id-DSCH-AddItem-RL-ReconfReqFDD                INTEGER ::= 86
id-DSCH-DeleteItem-RL-ReconfPrepFDD            INTEGER ::= 87
id-DSCH-DeleteItem-RL-ReconfReqFDD            INTEGER ::= 88
id-DSCH-ID                                     INTEGER ::= 89
id-DSCH-Information-RL-SetupReqFDDItem         INTEGER ::= 90
id-DSCH-InformationList-RL-SetupReqFDD        INTEGER ::= 91
id-DSCH-InformationResponse-RL-SetupFailFDDItem INTEGER ::= 92
id-DSCH-InformationResponse-RL-setupResFDDItem INTEGER ::= 93
id-DSCH-ModifyItem-RL-ReconfPrepFDD           INTEGER ::= 94
id-DSCH-ModifyItem-RL-ReconfReqFDD           INTEGER ::= 95
id-DedicatedMeasurementObjectType             INTEGER ::= 96
id-DedicatedMeasurementType                  INTEGER ::= 97
id-FACH-Information-ResourceStatIndItem        INTEGER ::= 98
id-FACH-InformationItem                       INTEGER ::= 99
id-FACH-ListItem                             INTEGER ::= 100
id-FACH-ParametersList-CTCHreconf-Req-FDD     INTEGER ::= 101
id-FACH-ParametersList-CTCHreconf-Req-TTD     INTEGER ::= 102
id-FACH-ParametersListItem-CTCHreconf-Req-FDD INTEGER ::= 103
id-FACH-ParametersListItem-CTCHreconf-Req-TTD INTEGER ::= 104
id-FACH-ParametersListItem-CTCHsetup-Req-FDD  INTEGER ::= 105
id-FACH-ParametersListItem-CTCHsetup-Response INTEGER ::= 106
id-GapStartingSlotNumber                     INTEGER ::= 107
id-IndicationType                           INTEGER ::= 108
id-Local-Cell-Information-ResourceStatIndItem  INTEGER ::= 109
id-Local-CellInformation-ResourceStatIndItem  INTEGER ::= 110
id-LocalCell-ID                             INTEGER ::= 111
id-LocalCell-InformationItem                 INTEGER ::= 112
id-LocalCellInformationList                  INTEGER ::= 113
id-MIB-SegmentInformationItem                INTEGER ::= 114
id-MIB-SegmentInformationList                INTEGER ::= 115
id-MaximumTransmissionPower                  INTEGER ::= 116
id-MeasuredCellInfo                          INTEGER ::= 117
id-MeasurementCharacteristics                 INTEGER ::= 118
id-MeasurementID                             INTEGER ::= 119
id-MeasurementType                           INTEGER ::= 120
id-NeighbouringFDD-Cell-InformationItem       INTEGER ::= 121
id-NeighbouringTDD-Cell-InformationItem       INTEGER ::= 122
id-NodeB-CommunicationContextID              INTEGER ::= 123
id-PCCPCH-Information                        INTEGER ::= 124
id-PCH-Information-ResourceStatIndItem        INTEGER ::= 125
id-PCH-InformationItem                       INTEGER ::= 126
id-PCH-ListItem                             INTEGER ::= 127
id-PCH-Parameters-CTCHreconf-Req-FDD         INTEGER ::= 128
id-PCH-ParametersList                       INTEGER ::= 129
id-PCH-ParametersListItem                    INTEGER ::= 130
id-PICH-Parameters-CTCHreconf-Req-FDD        INTEGER ::= 131
id-PRACH-ParametersList                      INTEGER ::= 132
id-PRACH-ParametersListItem                  INTEGER ::= 133
id-PSCH-Information                          INTEGER ::= 134
id-PSCHandPCCPCH-Information                 INTEGER ::= 135
id-PUSCH-ListItem                           INTEGER ::= 136
id-PatternDuration                           INTEGER ::= 137
id-PowerControlMode                          INTEGER ::= 138
id-PowerResumeMode                           INTEGER ::= 139

```

```

id-PrimaryCCPCH-Information          INTEGER ::= 140
id-PrimaryCPICH-Information          INTEGER ::= 141
id-PrimarySCH-Information            INTEGER ::= 142
id-PrimaryScramblingCode            INTEGER ::= 143
id-ProcedureScopeType               INTEGER ::= 144
id-RACH-Information-ResourceStatIndItem  INTEGER ::= 145
id-RACH-InformationItem              INTEGER ::= 146
id-RL-ID                             INTEGER ::= 147
id-RL-Information                    INTEGER ::= 148
id-RL-Information-DMeasureReportItem  INTEGER ::= 149
id-RL-Information-DMeasureRequestItem INTEGER ::= 150
id-RL-Information-DMeasureResponseItem INTEGER ::= 151
id-RL-Information-RL-ReconfPrepFDDItem INTEGER ::= 152
id-RL-Information-RL-SetupReqFDDItem  INTEGER ::= 153
id-RL-InformationItem                INTEGER ::= 154
id-RL-InformationItem-RL-SetupReqTDD  INTEGER ::= 155
id-RL-InformationList                INTEGER ::= 156
id-RL-InformationList-RL-ReconfReqFDD  INTEGER ::= 157
id-RL-InformationList-RL-SetupReqFDD  INTEGER ::= 158
id-RL-InformationResponse-RL-setupResFDDItem  INTEGER ::= 159
id-RL-InformationResponseItem-RL-ReconfResp  INTEGER ::= 160
id-RL-InformationResponseList-RL-ReconfReady  INTEGER ::= 161
id-RL-InformationResponseList-RL-ReconfReadyItem  INTEGER ::= 162
id-RL-InformationResponseList-RL-ReconfResp  INTEGER ::= 163
id-RL-InformationResponseList-RL-setupResFDD  INTEGER ::= 164
id-RL-InformationResponseList-RL-setupResTDD  INTEGER ::= 165
id-RL-ReconfigurationFailure-RL-ReconfFailItem  INTEGER ::= 166
id-RL-ReconfigurationFailureList-RL-ReconfFail  INTEGER ::= 167
id-RL-ResponseInformation            INTEGER ::= 168
id-RL-ResponseInformationItem        INTEGER ::= 169
id-RL-ResponseInformationList        INTEGER ::= 170
id-RL-informationItem                INTEGER ::= 171
id-RL-informationList                INTEGER ::= 172
id-RadioLinkInformation-RL-ReconfPrepFDDItem  INTEGER ::= 173
id-RadioLinkInformation-RL-ReconfPrepTDD      INTEGER ::= 174
id-RadioLinkInformation-RL-ReconfReqTDD      INTEGER ::= 175
id-RadioLinkInformationList-RL-ReconfPrepFDD  INTEGER ::= 176
id-ReportCharacteristics              INTEGER ::= 177
id-SFN                                INTEGER ::= 178
id-SIB-SegmentInformationItem         INTEGER ::= 179
id-SIB-SegmentInformationList        INTEGER ::= 180
id-ScramblingCodeChange              INTEGER ::= 181
id-Secondary-CCPCHListItem           INTEGER ::= 182
id-SecondaryCPICH-Information         INTEGER ::= 183
id-SecondarySCH-Information           INTEGER ::= 184
id-ShutdownTimer                     INTEGER ::= 185
id-Successful-RL-InformationResponse-RL-SetupFailFDDItem  INTEGER ::= 186
id-Successful-RL-InformationResponseItem  INTEGER ::= 187
id-Successful-RL-InformationResponseList  INTEGER ::= 188
id-Successful-RL-InformationResponseList-RL-SetupFailFDD  INTEGER ::= 189
id-SynchronisationMethod              INTEGER ::= 190
id-T-Cell                             INTEGER ::= 191
id-TDDChipOffset                     INTEGER ::= 192
id-TimeSlotConfigurationItem          INTEGER ::= 193

```

```

id-TimeSlotConfigurationList          INTEGER ::= 194
id-TransmissionGapDistance           INTEGER ::= 195
id-TransmissionGapPeriod              INTEGER ::= 196
id-TransmitGapLength                  INTEGER ::= 197
id-TransmitGapPositionMode            INTEGER ::= 198
id-UARFCN                             INTEGER ::= 199
id-UC-ID                              INTEGER ::= 200
id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem  INTEGER ::= 201
id-UL-CCTrCH-Information-RL-ReconfReqTDDItem  INTEGER ::= 202
id-UL-CCTrCH-Information-RL-SetupReqTDDItem  INTEGER ::= 203
id-UL-CCTrCH-InformationItemIE        INTEGER ::= 204
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD  INTEGER ::= 205
id-UL-CCTrCH-InformationList-RL-ReconfReqTDD  INTEGER ::= 206
id-UL-CCTrCH-InformationList-RL-SetupReqTDD  INTEGER ::= 207
id-UL-CCTrCHInformation               INTEGER ::= 208
id-UL-CCTrCHInformationList           INTEGER ::= 209
id-UL-DPCH-Information-RL-ReconfPrepFDD      INTEGER ::= 210
id-UL-DPCH-Information-RL-ReconfPrepTDDItem  INTEGER ::= 211
id-UL-DPCH-Information-RL-SetupReqTDDItem    INTEGER ::= 212
id-UL-DPCH-Information-RL-ReconfReqFDD      INTEGER ::= 213
id-UL-DPCH-InformationItem-RL-SetupReqFDD    INTEGER ::= 214
id-UL-DPCH-InformationItemIE          INTEGER ::= 215
id-USCH-Information-ResourceStatIndItem      INTEGER ::= 216
id-USCH-InformationItem                INTEGER ::= 217
id-USCH-ListItem-CTCHsetup-Req-TDD         INTEGER ::= 218
id-Unsuccessful-RL-InformationResponse      INTEGER ::= 219
id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem  INTEGER ::= 220
id-Unsuccessful-RL-InformationResponseItem  INTEGER ::= 221
id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD  INTEGER ::= 222
id-Unsuccessful-RL-InformationResponseList  INTEGER ::= 223
id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD  INTEGER ::= 224

```

END

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
25.433	CR 074 r1	Current Version: 3.0.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team	
For submission to: TSG-RAN#7 <small>list expected approval meeting # here ↑</small>	for approval for information <input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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

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

Source: RAN WG3 **Date:** 22 Feb 2000

Subject: Editorial changes to NBAP

Work item:

Category:	F Correction <input 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 checked="" 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"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: Editorial changes to NBAP for better readability. The level of indentation has been indicated by arrows.

Clauses affected: 9.1, 9.2

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

Other comments:



help.doc

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

9 Elements for NBAP communication

9.1 Message functional definition and content

9.1.1 Message Contents

An information element can be of the following *types*:

M	The information element is mandatory, i.e. always present in the message
O	The information element is optional, i.e. may or may not be present in the message independently on the presence or value of other information elements in the same message
C	The presence of the information element is conditional to the presence or to the value of another information element, as reported in the correspondent footnote

In case of an information element group, the group is preceded by a name for the info group (in bold). It is also indicated whether the group is mandatory, optional or conditional. Each group may be also repeated within one message. The presence field of the information elements inside one group defines if the information element is mandatory, optional or conditional if the group is present.

9.1.2 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.1.2.1 FDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Configuration Generation ID	M			
CHOICE common physical channel to be configured				
>Secondary CCPCH				
> Secondary CCPCH		1		
>>Common Physical Channel ID	M			
>>FDD S-CCPCH Offset	M			Corresponds to 25.211: s-CCPCH.k
>>DL Scrambling Code	M			
>>FDD DL Channelisation Code Number	M			
>>TFCS	M			For the DL.
>>Secondary CCPCH Slot Format	M			
>>Pilot Bits Used Indicator	M			
>>Multiplexing Position	M			
>>STTD Indicator	M			
>> FACH Parameters	C-choiceCh	0..<maxnoofFA CHs>		
>>>Common transport channel ID	M			
>>>Transport Format Set	M			For the DL.
>>>ToAWS	M			
>>>ToAWE	M			
>>>Max FACH Power	M		DL Power	Maximum allowed power on the FACH.
>> PCH Parameters	C-choiceCh	0..1		
>>>Common Transport Channel ID	M			
>>>Transport Format Set	M			For the DL.
>>>ToAWS	M			
>>>ToAWE	M			
>>>PCH Power	M		DL Power	
>>> PICH Parameters		1		
>>>>Common Physical Channel ID	M			
>>>>DL Scrambling Code	M			
>>>>FDD DL Channelisation Code Number	M			
>>>>PICH Power	M		DL Power	Power to be used on the PICH.

>>>>PICH Mode	M			Number of PI per frame
>>>>STTD Indicator	M			
>PRACH				
>PRACH		1		
>>Common Physical Channel ID	M			
>>Scrambling Code Word Number	M			
>>TFCS	M			For the UL.
>>Preamble Signatures	M			
>>Allowed Slot Format Information		1..<maxSF>		
>>RACH Slot Format	M			
>>RACH Sub Channel Numbers	M			
>>Puncture Limit	M			For the UL
>>RACH Parameters		1		
>>>Common Transport Channel ID	M			
>>>Transport Format Set	M			For the UL.
>>>AICH Parameters		1		
>>>>Common Physical Channel ID	M			
>>>>DL Scrambling Code	M			
>>>>AICH Transmission Timing	M			
>>>>FDD DL Channelisation Code Number	M			
>>>>AICH Power	M		DL Power	
>>>>STTD Indicator	M			

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.
<i>MaxSF</i>	Maximum number of SF for a PRACH

9.1.2.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Configuration Generation ID	M			
CHOICE <i>common physical channels to be configured</i>				
<i>Secondary CCPCHs</i>				
≥CCTrCH ID	M			For DL CCTrCH supporting one or several Secondary CCPCHs
≥TFCS	M			For DL CCTrCH supporting one or several Secondary CCPCHs

≥Secondary CCPCH		1..<maxnoofS-CCPCHs>		
>>Common physical channel ID	M			
>>TDD Channelisation Code	M			
>>Time Slot	M			
>>Burst Type	M			Long or short midamble
>>Midamble shift	M			
>>TDD Physical Channel Offset	M			
>>Repetition Period	M			
>>Repetition Length	M			
>>S-CCPCH Power	M		DL Power	
>>STTD Indicator	M			
<i>PRACH</i>				
≥PRACH	M			
>>Common physical channel ID	M			
>>Time Slot	M			
>>TDD Channelisation Code	M			
>>Max PRACH Midamble Shifts	O			
>>PRACH Midamble	M			
<i>CHOICE common transport channels to be configured</i>				
<i>FACH</i>				
≥FACH	C ChoiceCh	1..<maxnoofFACHs>		
>>Common transport channel ID	M			
>>Transport Format Set	M			For the DL.
>>ToAWS	M			
>>ToAWE	M			
<i>PCH</i>				
≥PCH	C ChoiceCh	1..<maxnoofPCHs>		
>>Common transport channel ID	M			
>>Transport Format Set	M			For the DL.
>>ToAWS	M			
>>ToAWE	M			
>> PICH Parameters		1		
>>>Common Physical Channel ID	M			
>>>TDD Channelisation Code	M			
>>>Time Slot	M			
>>>Burst type	O			
>>>Midamble shift	M			
>>>TDD Physical Channel Offset	M			
>>>Repetition period	M			
>>>Repetition length	M			
>>>Paging Indicator Length	M			

>>>PICH Power	M			
RACH		1		
>RACH				
>>Common transport channel ID	M			

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

Range bound	Explanation
MaxnoofS-CCPCHs	Maximum number of Secondary CCPCHs per CCTrCH.
MaxnoofCCTrCHs	Maximum number of CCTrCHs that can be defined in a cell.
MaxnoofFACHs	Maximum number of FACHs that can be defined on a Secondary CCPCH.
MaxnoofPCHs	Maximum number of PCHs that can be defined on a Secondary CCPCH.

9.1.3 COMMON TRANSPORT CHANNEL SETUP RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
CHOICE <i>common transport channel configured</i>				
>FACH				
>FACH Parameters	C-choiceCh	0..<maxnoofFACHs>		
>>Common Transport Channel ID	M			
>>Binding ID	M			
>>Transport layer address	M			
>PCH				
>PCH Parameters	C-choiceCh	0..1		
>>Common transport channel ID	M			
>>Binding ID	M			
>>Transport layer address	M			
>RACH				
>RACH parameters		1		
>>Common transport channel ID	M			
>>Binding ID	M			
>>Transport layer address	M			
Criticality Diagnostics	O			

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

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

9.1.4 COMMON TRANSPORT CHANNEL SETUP FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Cause	M			
Criticality diagnostics	O			

9.1.5 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

9.1.5.1 FDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Configuration Generation ID	M			
FACH parameters		<i>0..<maxFACHCell></i>		
≥Common Transport Channel ID	M			
≥Max FACH Power	O		DL Power	Maximum allowed power on the FACH.
≥ToAWS	O			
≥ToAWE	O			
PCH Parameters		<i>0..1</i>		
≥Common Transport Channel ID	M			
≥PCH Power	O		DL Power	Power to be used on the PCH.
≥ToAWS	O			
≥ToAWE	O			
PICH Parameters		<i>0..1</i>		
≥Common Physical Channel ID	M			
≥PICH -Power	M		DL Power	Power to be used on the PICH.
PRACH Parameters		<i>0..<maxnoofPRACHs></i>		
≥Common Physical Channel ID	M			
≥Preamble Signatures	M			
≥Allowed Slot Format Information		<i>0..<maxSF></i>		
≥Slot Format	M			
≥RACH Sub Channel Numbers	O			
AICH Parameters		<i>0..<maxnoofPRACHs></i>		
≥Common Physical Channel ID	M			
≥AICH Power	M		DL Power	Power to be used on the AICH.

Range bound	Explanation
<i>MaxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>maxnoofPRACHs</i>	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>maxSF</i>	Maximum number of SF for a PRACH

9.1.5.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Configuration Generation ID	M			
CHOICE common physical channels to be reconfigured				
Secondary CCPCHs				
≥CCTrCH ID	M			For DL CCTrCH supporting one or several Secondary CCPCHs
≥Secondary CCPCH		0..<MaxnoofSCCPCHs>		
>>Common physical channel ID	M			
>>S-CCPCH Power	M			DL power
PICH				
≥PICH Parameters		0 .. 1		
>>Common physical channel ID	M			
>>PICH Power	M			
CHOICE common transport channels to be reconfigured				
FACH				
≥FACH parameters		0..<MaxnoofFACHs>		
>>Common Transport Channel ID	M			
>>ToAWS	O			
>>ToAWE	O			
PCH				
≥PCH parameters		0 .. <MaxnoofPCHs>		
>>Common Transport Channel ID	M			
>>ToAWS	O			
>>ToAWE	O			

Range bound	Explanation
<i>MaxFACHCell</i>	Maximum number of FACHs that can be repeated in a Cell
<i>MaxnoofPCHs</i>	Maximum number of PCHs that can be defined in a cell.

9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Cause	M			
Criticality diagnostics	O			

9.1.8 COMMON TRANSPORT CHANNEL DELETION REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Common Physical Channel ID	M			Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted.
Configuration Generation ID	M			

9.1.9 COMMON TRANSPORT CHANNEL DELETION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.10 BLOCK RESOURCE REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Blocking Priority Indicator	M			
Shutdown Timer	C- <i>BlockNormal</i>			

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

9.1.11 BLOCK RESOURCE RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.12 BLOCK RESOURCE FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Cause	M			
Criticality diagnostics	O			

9.1.13 UNBLOCK RESOURCE INDICATION

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			

9.1.14 AUDIT REQUIRED INDICATION

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			

9.1.15 AUDIT REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Cell parameters		0.. <maxCellinNodeB>		
≥C-ID	M			
≥Configuration Generation Id	M			

Range bound	Explanation
MaxCellinNodeB	Maximum number of cell that can be configured in Node B

9.1.16 AUDIT RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Cell Information		0.. <maxUCIDinN odeB>		
≥C-ID	M			
Resource Operational State	M			
≥Availability Status	M			
≥Maximum DL Power Capability	FFS			
≥Minimum Spreading Factor	FFS			
≥ Primary SCH Information		0..1		
>>Common Physical Channel ID	M			
>>Resource Operational State	M			
>>Availability Status	M			
≥ Secondary SCH Information		0..1		
>>Common Physical Channel ID	M			
>>Resource Operational State	M			
>>Availability Status	M			
≥ Primary CPICH Information		0..1		
>>Common Physical Channel ID	M			
>Resource Operational State	M			
>>Availability Status	M			
≥ Secondary CPICH Information		0..<maxSCPIC HCell>		
>>Common Physical Channel ID	M			
>Resource Operational State	M			
>>Availability Status	M			
≥ Primary CCPCH Information		0..1		
>>Common Physical Channel ID	M			
>>Resource Operational State	M			
>>Availability Status	M			
≥BCH Information		0..1		
>>Common Transport Channel ID	M			
>>Resource Operational State	M			
>>Availability Status	M			
≥ Secondary CCPCH Information		0..<maxSCCP CHCell>		
>>Common Physical Channel ID	M			
>>Resource Operational State	M			

>>>Availability Status	M			
>PCH Information			0..<maxPCHCell>	
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>PICH Information			0..1	
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>FACH Information			0..<maxFACHCell>	
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>PRACH Information			0..<maxPRACHCell>	
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>RACH Information			0..<maxRACHCell>	
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>AICH Information			0..<maxRACHCell>	
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>SCH Information			0..1	
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>PSCH Information			0..1	
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
Communication Control Port Information			0..<maxCCPinNo dB>	
>Communication Control Port ID	M			
>Resource Operational State	M			
>Availability Status	M			

Local Cell Information		0.. <maxLocalCell inNodeB>		
≥Local Cell ID	M			
≥Number of Channel Elements	O			
≥Maximum DL Power Capability	O			
Criticality diagnostics	O			

Range bound	Explanation
maxCellinNodeB	Maximum number of Cell that can be configured in Node B
maxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
maxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
maxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
maxFACHCell	Maximum number of FACHes that can be defined in a Cell
maxRACHCell	Maximum number of RACHes that can be defined in a Cell
maxPCHCell	Maximum number of PCHes that can be defined in a Cell
maxPICHCell	Maximum number of PICHes that can be defined in a Cell

9.1.17 COMMON MEASUREMENT INITIATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Transaction Id	M			
Measurement Id	M			
Common Measurement Object Type	M			
CHOICE Common Measurement Object Type				
"Cell"				
C-ID	M			
Time Slot	O			TDD only
"RACH"				
C-ID	M			
Common transport channel ID	M			
Common Measurement Type	M			
Measurement Characteristics	M			
Report Characteristics	M			

9.1.18 COMMON MEASUREMENT INITIATION RESPONSE

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Transaction Id	M			
Measurement Id	M			
CHOICE Common <i>Measurement Object Type</i>				
"Cell"				
Common Measurement value	M			
"RACH"				
Common Measurement Value	M			
SFN	O			Common Measurement Time Reference
Criticality Diagnostics	O			

9.1.19 COMMON MEASUREMENT INITIATION FAILURE

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Transaction Id	M			
Measurement Id	M			
Cause	M			
Criticality diagnostics	O			

9.1.20 COMMON MEASUREMENT REPORT

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Transaction Id	M			
Measurement Id	M			
CHOICE Common <i>Measurement Object Type</i>				
"Cell"				
Common Measurement value	M			
"RACH"				
Common Measurement Value	M			
SFN	O			Common Measurement Time Reference

9.1.21 COMMON MEASUREMENT TERMINATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Transaction Id	M			
Measurement Id	M			

9.1.22 COMMON MEASUREMENT FAILURE INDICATION

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Transaction Id	M			
Measurement Id	M			
Cause	M			

9.1.23 CELL SETUP REQUEST

9.1.23.1 FDD Message

Information Element	Presence	Range	IE type and Reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Local Cell Id	M			
C-Id	M			
Configuration Generation Id	M			
T Cell	M			
UARFCN	M			Indicates UL/DL Frequency
Maximum transmission power	M			
Primary scrambling code	M			
Primary SCH Information		1		
>Common Physical Channel ID	M			
>Primary SCH Power	M		DL Power	
>TSTD Indicator	M			
Secondary SCH Information		1		
>Common Physical Channel ID	M			
>Secondary SCH power	M		DL Power	
>TSTD Indicator	M			
Primary CPICH Information		1		
>Common Physical Channel ID	M			
>P-CPICH power	M			
>Transmit Diversity Indicator	M			
Secondary CPICH Information		0..1		
>Common Physical Channel ID	M			
>DL Scrambling code	M			
>FDD DL Channelisation Code Number	M			
>S-CPICH Power	M		DL Power	
>Transmit Diversity Indicator	M			
Primary CCPCH Information		1		
>Common Physical Channel ID	M			
>BCH Information		1		
>Common Transport Channel ID	M			
>BCH Power	M		DL Power	
>STTD Indicator	M			

9.1.23.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Local Cell Id	M			
C-Id	M			
Configuration Generation Id	M			
UARFCN	M			
Cell Parameter ID	M			
Maximum Transmission Power	O			
Transmission Diversity Applied	M			On DCHs
Sync Case	M			
PSCH Information		1		
>Common physical channel ID	M			
>CHOICE Sync Case				
>>Case 1				The same TS is used for PCCPCH
>>>Time Slot	M			
>>>Case 2 and Case 3				In Case 2 the same TS is used for PCCPCH
>>>PSCH Time Slot	M			
>>>PSCH Power	M			DL Power
>>>TSTD Indicator	M			
PCCPCH Information		1		
>Common physical channel ID	M			
>CHOICE Sync Case				
>>Case 3				
>>>Time Slot	M			
>TDD Physical Channel Offset	M			
>Repetition Period	M			
>Repetition Length	M			
>PCCPCH Power	M			
>STTD Indicator	M			
Time Slot Configuration		1 .. 15		
>Time Slot	M			
>Time Slot Status	M			
>Time Slot Direction	M			

Condition	Explanation
Case 3	This IE is only present if the PSCH&PCCPCH Allocation is equal to 3

9.1.24 CELL SETUP RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.25 CELL SETUP FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Cause	M			
Criticality diagnostics	O			

9.1.26 CELL RECONFIGURATION REQUEST

9.1.26.1 FDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
Configuration Generation Id	M			
Maximum transmission power	O			
Primary SCH Information		0,1		
>Common Physical Channel ID	M			
>Primary SCH power	M		DL Power	
Secondary SCH Information		0,1		
>Common Physical Channel ID	M			
>Secondary SCH power	M		DL Power	
Primary CPICH Information		0,1		
>Common Physical Channel ID	M			
>Primary CPICH power	M			
Secondary CPICH Information		0,1		
>Common Physical Channel ID	M			
>Secondary CPICH Power	M		DL Power	
Primary CCPCH Information		0,1		
>BCH Information		1		
>>Common Transport Channel ID	M			
>>BCH Power	M		DL Power	

9.1.26.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
C-Id	M			
Configuration Generation ID	M			
PSCH Information		0,1		
>Common Physical Channel ID	M			
>PSCH Power	M			
PCCPCH Information		0,1		
>Common Physical Channel ID	M			
>PCCPCH Power	M			
Maximum Transmission Power	O			
Time Slot Configuration		0..15		
>Time Slot	M			
>Time Slot Status	M			
>Time Slot Direction	M			

9.1.27 CELL RECONFIGURATION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.28 CELL RECONFIGURATION FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Cause	M			
Criticality diagnostics	O			

9.1.29 CELL DELETION REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			

9.1.30 CELL DELETION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.31 RESOURCE STATUS INDICATION

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Indication Type	M			
CHOICE Indication Type				
≥ "No Failure"				
>>Local Cell Information		1.. <maxLocalCellinNo deB >		
>>>Local Cell ID	M			
>>>Add/Delete Indicator	M			
>>>Number of Channel Elements	M			
>>>Maximum DL Power Capability	M			
≥ "Service Impacting"				
>>Local Cell Information		0.. <maxLocalCell inNodeB>		
>>>Local Cell ID	M			
>>>Number of Channel Elements	O			
>>>Maximum DL Power Capability	O			
>>Communication Control Port Information		0.. <maxCCPinNo deB>		
>>>Communication Control Port ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>Cell Information		0.. <maxCellinNo deB>		
>>>C-ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>Maximum DL Power Capability	FFS			
>>>Minimum Spreading Factor	FFS			
>>Primary SCH Information		0..1		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			

>>>Secondary SCH Information		0..1		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>Primary CPICH Information		0..1		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>Secondary CPICH Information		0..<maxSCPIC HCell>		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>Primary CCPCH Information		0..1		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>BCH Information		0..1		
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>Secondary CCPCH Information		0..<maxSCCP CHCell>		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>PCH Information		0..<maxPCHCell>		
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>>PICH Information		0..1		

>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>FACH Information		0.. <maxFACHCell>		
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>PRACH Information		0..<maxPRACHCell>		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>RACH Information		0.. <maxPRACHCell>		
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>AICH Information		0.. <maxPRACHCell>		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>SCH Information		0..1		
>>>Common Transport Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
>>PSCH Information		0..1		
>>>Common Physical Channel ID	M			
>>>Resource Operational State	M			
>>>Availability Status	M			
Cause	O			

Range bound	Explanation
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICH that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCH that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHes that can be defined in a Cell
<i>maxPCHCell</i>	Maximum number of PCHes that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHes and AICHes that can be defined in a Cell
<i>maxCCPinNodeB</i>	Maximum number of communication control ports that can exist in the Node B

9.1.32 SYSTEM INFORMATION UPDATE REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
BCCH Modification Time	O			
MIB/SIBInformation		<i>1..maxIB</i>		
>IB Type	M			
>SIB Deletion Indicator	C-NotMIB			
>CHOICE <i>DeletionIndicator</i>				
> <i>NoDeletion</i>				
>>SIB Originator	C-NotMIB			
>> Segment Information		<i>1..maxIBSEG</i>		
>>>Segment Type	M			
>>>IB SG REP	M			
>>>IB SG POS	M			
>>>IB SG	C – CRNCOri ination			

Range bound	Explanation
<i>1..maxIB</i>	Maximum number of information Blocks supported in a physical channel scheduling cycle
<i>1..maxIBSEG</i>	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOriination	The IE shall be present if <i>the SIB Originator</i> IE is set to 'CRNC'
NotMIB	This IE shall be present if the IB Type is not equal to "MIB"

9.1.33 SYSTEM INFORMATION UPDATE RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.34 SYSTEM INFORMATION UPDATE FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Cause	M			
Criticality diagnostics	O			

9.1.35 RADIO LINK SETUP REQUEST

9.1.35.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
UL DPCH Information		1		
>UL Scrambling Code	M			
>Min UL Channelisation Code length	M			
>Max Number of UL DPCHs	C – CodeLen			
>puncture limit	M			For UL
>Transport Format Combination Set	M			for UL
>UL DPCH Slot Format	M			
>UL Eb/No Target	M		Uplink Eb/No	
>Diversity mode	M			
>D Field Length	C – FB			
>SSDT cell ID Length	O			
>S Field Length	O			
DL DPCH Information				
>Transport Format Combination Set	M			For DL
>DL DPCH Slot Format	M			
>TFCI signalling mode	M			
>TFCI presence	C- SlotFormat			
>Multiplexing Position	M			
> Power Offset Information		1		
>>PO1	M		Power Offset	Power offset for the TFCI bits
>>PO2	M		Power Offset	Power offset for the TPC bits
>>PO3	M		Power Offset	Power offset for the pilot bits
>Delta TPC	M			
DCH Information		1 to <maxnoofDCHs>		
>DCH ID	M			
>DCH Combination Ind	O			
>RLC mode	M			
>Transport Format Set	M			For UL
>Transport Format Set	M			For DL
>Frame Handling Priority	M			
>Payload CRC Presence Indicator	M			
>UL FP mode	M			
>ToAWS	M			
>ToAWE	M			
RL ID	O			RL Supporting the DSCH
DSCH TFCS	O			
DSCH Information		0 to		

		<maxnoofDSCHs >		
>DSCH ID	M			
>Transport Format Set	M			For DSCH
>Frame handling Priority	M			
>ToAWS	M			
>ToAWE	M			
RL Information		1 to <maxnoofRLs>		
>RL ID	M			
>C-ID	M			
>Frame Offset	M			
>Chip Offset	M			
>Propagation Delay	O			
>Diversity Control Field	C – NotFirstRL			
>DL Code Information		1 to <maxnoof- DLCodes		
>>DL Scrambling Code	M			
>>FDD DL Channelisation Code Number	M			
>Initial DL transmission Power	M		DL Power	
>Maximum DL power	M		DL Power	
>Minimum DL power	M		DL Power	
>SSDT Cell Identity	O			

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.

Range bound	Explanation
MaxnoofDSCHs	Maximum no. of DSCHs for one UE.
MaxnoofDCHs	Maximum no. of DCHs for one UE.
MaxnoofRLs	Maximum no. of RLs for one UE.
MaxnoofDLCodes	Maximum no. of DL code information.

9.1.35.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
UL CCTrCH Information		0 to <maxno CCTrCH>		
>CCTrCH ID	M			
>Transport Format Combination Set	M			
>TFCI Coding	M			
>Puncture Limit	M			
UL DPCH Information		0 to <maxnoOfDPCH>		
>DPCH ID	M			
>TDD Channelisation Code	M			
>Burst Type	M			
>Midamble Shift	M			
>Time Slot	M			
>TDD Physical Channel Offset	M			
>Repetition Period	M			
>Repetition Length	M			
>TFCI Presence	M			
DL CCTrCH Information		0 to <maxno CCTrCH>		
>CCTrCH ID	M			
>Transport Format Combination Set	M			
>TFCI Coding	M			
>Puncture Limit	M			
DL DPCH information		0 to <maxnoOfDPCH>		
>DPCH ID	M			
>TDD Channelisation Code	M			
>Burst Type	M			
>Midamble Shift	M			
>Time Slot	M			
>TDD Physical Channel Offset	M			
>Repetition Period	M			
>Repetition Length	M			
>TFCI Presence	M			
DCH Information		1 to <maxnoofDCHs>		
>DCH ID	M			
>RLC mode	M			
>CCTrCH -ID	M			UL CCTrCH in which the DCH is mapped
>CCTrCH -ID	M			DL CCTrCH in which the DCH is mapped
>DCH Combination Ind	O			
>Transport Format Set	M			For UL
>Transport Format Set	M			For DL

>Frame Handling Priority	O			
>Payload CRC Presence Indicator	M			
>UL FP mode	M			
>ToAWS	M			
>ToAWE	M			
DSCH Information		0 to <MaxnoofDSCHs >		
>DSCH ID	M			
>CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped
>Transport Format Set	M			For DSCH
>Frame handling Priority	M			
>ToAWS	M			
>ToAWE	M			
USCH Information		0 to <MaxnoofUSCHs >		
>USCH ID	M			
>CCTrCH- ID	M			UL CCTrCH in which the USCH is mapped
>Transport Format Set	M			For USCH
RL Information		1		
>RL ID	M			
>C-ID	M			
>Frame TDD Physical Channel Offset	M			
>Initial DL transmission Power	M		DL Power	
>Maximum DL power	M		DL Power	
>Minimum DL power	M		DL Power	

Range bound	Explanation
MaxnoofDCHs	Maximum no. of DCHs for one UE.
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	no. of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

9.1.36 RADIO LINK SETUP RESPONSE

9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Node B Communication Context ID	M			
Communication Control Port ID	M			
RL Information Response		1 to <maxnoofRLs>		
>RL ID	M			
>UL interference level	M			
>Diversity Indication	C-NotFirstRL			
>CHOICE <i>diversity Indication</i>				
>>Combining				
>>>RL ID	M			Reference RL ID for the combining
>>Non Combining or IE not present				
>>>DCH Information Response		0 to <maxnoofDCHs>		Only one DCH per set of coordinated DCH shall be included
>>>>DCH ID	M			
>>>>Binding ID	M			
>>>>Transport Layer Address	M			
>DSCH Information Response		0 to <Numof DSCH>		
>>DSCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
>SSDT Support Indicator	M			
Criticality diagnostics	O			

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

Range bound	Explanation
MaxnoofRLs	Maximum no. of RLs for one UE.
MaxnoofDCHs	Maximum no. of DCH per UE.
MaxnoofDSCHs	Maximum no. of DSCHs for one UE.

9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Node B Communication Context ID	M			
Communication Control Port ID	M			
RL Information Response		1		
>RL ID	M			
>UL interference level	M			
≥DCH Information Response		1 to <maxnoofDCH>		Only one DCH per set of coordinated DCH shall be included.
>>DCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥DSCH Information Response		0 .. <Maxnoof DSCHs>		
>>DSCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥USCH Information Response		0 .. <Maxnoof USCHs>		
>>USCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
Criticality diagnostics	O			

Range bound	Explanation
MaxnoofDCHs	Maximum no. of DCH per UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE

9.1.37 RADIO LINK SETUP FAILURE

9.1.37.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Node B Communication Context ID	M			
Communication Control Port ID	O			
Unsuccessful RL Information Response		1 to <maxnoofRLs>		
>RL ID	M			
>Cause	M			
Successful RL Information Response		0 to <maxnoofRLs-1>		
>RL ID	M			
>UL interference level	M			
>Diversity Indication	C-NotFirstRL			
>CHOICE <i>diversity Indication</i>				
>>Combining				
>>>RL ID	M			Reference RL ID for the combining
>>Non Combining or IE not present				
>>>DCH Information Response		0 to <maxnoofDCHs>		Only one DCH per set of coordinated DCH shall be included
>>>>DCH ID	M			
>>>>Binding ID	M			
>>>>Transport Layer Address	M			
>DSCH Information Response		0 to <Numof DSCH>		
>>DSCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
>SSDT Support Indicator	M			
Criticality diagnostics	O			

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

Range bound	Explanation
MaxnoofRLs	Maximum no. of RLs for one UE.
MaxnoofDCHs	Maximum no. of set DCH per UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE

9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Unsuccessful RL Information Response		1		
>RL ID	M			
>Cause	M			
Criticality diagnostics	O			

9.1.38 RADIO LINK ADDITION REQUEST

9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
RL Information		1..<maxnoofRL-1>		
>RL ID	M			
>C-Id	M			
>Frame Offset	M			
>Chip Offset	M			
>Diversity Control Field	M			
> DL Code Information		1..maxnoofDLCodes		
>>DL Scrambling code	M			
>>FDD DL channelisation code number	M			
>Initial DL transmission power	O		DL Power	
>Maximum DL power	O		DL Power	
>Minimum DL power	O		DL Power	
>SSDT Cell Identity	O			

Range bound	Explanation
MaxnoofRL	Maximum number of RLs for one UE
MaxnoofDLCodes	Maximum number of DL code information

9.1.38.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
UL CCTrCH Information		0 to <maxno CCTrCH>		
>CCTrCH ID	M			
UL DPCH Information		0 to <maxnoOfDPCH>		
>DPCH ID	M			
>TDD Channelisation Code	M			
>Burst Type	M			
>Midamble Shift	M			
>Time Slot	M			
>TDD Physilca Channel Offset	M			
>Repetition Period	M			
>Repetition Length	M			
>TFCI Presence	M			
DL CCTrCH Information		0 to <maxno CCTrCH>		
>CCTrCH ID	M			
DL DPCH information		0 to <maxnoOfDPCH>		
>DPCH ID	M			
>TDD Channelisation Code	M			
>Burst Type	M			
>Midamble Shift	M			
>Time Slot	M			
>TDD Physical Channel Offset	M			
>Repetition Period	M			
>Repetition Length	M			
>TFCI Presence	M			
RL Information		1		
>RL ID	M			
>C-Id	M			
>Frame Offset	M			
>Diversity Control Field	M			
>Initial DL Power	O		DL Power	
>Maximum DL power	O		DL Power	
>Minimum DL power	O		DL Power	

Range bound	Explanation
MaxnoOfDPCH	Maximum number of DPCH in one CCTrCH
MaxnoCCTrCH	no. of CCTrCH for one UE.

9.1.39 RADIO LINK ADDITION RESPONSE

9.1.39.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
RL Information Response		1..<maxnoo fRL-1>		
>RL ID	M			
>UL interference level	M			
>Diversity Indication	M			
>CHOICE <i>diversity indication</i>				
>>Combining				
>>>RL ID	M			Reference RL
>>Non combining				
>>>DCH Information Response		1..<maxnoo fDCHs>		
>>>>DCH ID	M			
>>>>Binding ID	M			
>>>>Transport Layer Address	M			
>SSDT support indicator	M			
Criticality diagnostics	O			

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

9.1.39.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
RL Information response		1		
>RL ID	M			
>UL interference level	M			
>Diversity Indication	M			
>CHOICE <i>diversity indication</i>				
>Combining				In TDD it indicates whether the old Transport Bearer shall be reused or not
>>RL ID	M			Reference RL
>Non combining				
>>DCH Information Response		0..<maxnoofDCHs>		
>>>DCH ID	M			
>>>Binding ID	M			
>>>Transport Layer Address	M			
>DSCH Information Response		0 .. <MaxnoofDSCHs>		
>>DSCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
>USCH Information Response		0 .. <MaxnoofUSCHs>		
>>USCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
Criticality diagnostics	O			

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.40 RADIO LINK ADDITION FAILURE

9.1.40.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Unsuccessful RL Information Response		1..<maxnoofRL-1>		
>RL ID	M			
>Cause	M			
Successful RL Information Response		1..<maxnoofRL-2>		
>RL ID	M			
>UL interference level	M			
>Diversity Indication	M			
>CHOICE <i>diversity indication</i>				
>>Combining				
>>>RL ID	M			Reference RL
>>Non combining				
>>>>DCH Information Response		1..<maxnoofDCHs>		
>>>>DCH ID	M			
>>>>Binding ID	M			
>>>>Transport Layer Address	M			
>SSDT support indicator	M			
Criticality diagnostics	O			

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

9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Unsuccessful RL Information Response		1		
>RL ID	M			
>Cause	M			
Criticality diagnostics	O			

9.1.41 RADIO LINK RECONFIGURATION PREPARE

9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
UL DPCH Information		0..1		
>UL Scrambling code	O			
>Min UL Channelisation Code Length	O			
>Max Number of UL DPDCHs	C – CodeLen			
>Puncture Limit	O			For UL
>TFCS	O			
>UL DPCCCH Slot Format	O			
>SSDT Cell Identity Length	O			
>S-Field Length	O			
DL DPCH Information		0..1		
>TFCS	O			
>DL DPCH Slot Format	O			
>TFCI Signalling Mode	O			
>TFCI presence	C-Slot Format			
>DTX Insertion Point	O			
DCHs to Modify		0..<maxnoof DCHs>		
>DCH ID	M			
>Transport Format Set	O			For the UL.
>Transport Format Set	O			For the DL.
>Frame Handling Priority	O			
>UL FP Mode	O			
>ToAWS	O			
>ToAWE	O			
DCHs to Add		0..<maxnoof DCHs>		
>DCH ID	M			
>DCH Combination Ind	O			
>RLC Mode	M			
>Transport Format Set	M			For the UL.
>Transport Format Set	M			For the DL.
>Frame Handling Priority	M			
>Payload CRC Presence Indicator	M			
>UL FP Mode	M			
>ToAWS	M			
>ToAWE	M			
DCHs to Delete		0..<maxnoof DCHs>		
>DCH ID	M			
DSCH to modify		0..1		
>Transport Format Set	O			For the DL.
>RL ID	O			
>Frame Handling Priority	O			

≥ToAWS	O			
≥ToAWE	O			
DSCH to add		0..1		
≥Transport Format Set	M			For the DL.
≥RL ID	M			
≥Frame Handling Priority	M			
≥ToAWS	M			
≥ToAWE	M			
DSCH to Delete		0..1		
≥RL ID	M			
RL Information		0..<maxnoof RLs>		
≥RL ID	M			
DL Code Information		0..<maxnoof DLCodes<		
>>DL Scrambling Code	O			
>>FDD DL Channelisation Code Number	O			
≥Maximum DL Power	O		DL Power	
≥Minimum DL Power	O		DL Power	
≥SSDT Indication	O			
≥SSDT Cell Identity	C - SSDTIndON			

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.

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

9.1.41.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
UL CCTrCH Information		0.. <maxnoof CCTrCHs>		
>CCTrCH ID	M			
>TFCS	O			
>TFCI Coding	O			
>Puncture Limit	O			
>UL DPCH Information		0.. <maxnoof DPCHs>		
>>DPCH ID	M			
>>TDD Channelisation Code	O			
>>Burst Type	O			
>>Midamble Shift	O			
>>Time Slot	O			
>>TDD Physilca channel Offset	O			
>>Repetition Period	O			
>>Repetition Length	O			
>>TFCI Presence	O			
DL CCTrCH Information		0.. <maxnoof CCTrCHs		
>CCTrCH ID	M			
>TFCS	O			
>TFCI Coding	O			
>PunctureLimit				
>DL DPCH Information		0.. <maxnoof DPCHs>		
>>DPCH ID	M			
>>TDD Channelisation Code	O			
>>Burst Type	O			
>>Midamble Shift	O			
>>Time Slot	O			
>>TDD Physical Channel Offset	O			
>>Repetition Period	O			
>>Repetition Length	O			
>>TFCI Presence	O			
DCHs to Modify		0..<maxnoof DCHs>		
>DCH ID	M			
>CCTrCH ID	O			UL CCTrCH in which the DCH is mapped.
>CCTrCH ID	O			DL CCTrCH in which the DCH is mapped
>Transport Format Set	O			For the UL.
>Transport Format Set	O			For the DL.

≥Frame Handling Priority	O			
≥UL FP Mode	O			
≥ToAWS	O			
≥ToAWE	O			
DCHs to Add		0..<maxnoof DCHs>		
≥DCH ID	M			
≥RLC Mode	M			
≥CCTrCH ID	M			UL CCTrCH in which the DCH is mapped.
≥CCTrCH ID	M			DL CCTrCH in which the DCH is mapped
≥DCH Combination Ind	O			
≥Transport Format Set	M			For the UL.
≥Transport Format Set	M			For the DL.
≥Frame Handling Priority	M			
≥Payload CRC Presence Indicator	M			
≥UL FP Mode	M			
≥ToAWS	M			
≥ToAWE	M			
DCHs to Delete		0..<maxnoof DCHs>		
≥DCH ID	M			
DSCH Information to modify		0 .. <Maxnoof DSCHs>		
≥DSCH ID	M			
≥CCTrCH ID	O			DL CCTrCH in which the DSCH is mapped
≥Transport Format Set	O			
≥Frame handling Priority	O			
≥ToAWS	O			
≥ToAWE	O			
DSCH Information to add		0 .. <Maxnoof DSCHs>		
≥DSCH ID	M			
≥CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped
≥Transport Format Set	M			
≥Frame handling Priority	O			
≥ToAWS	M			
≥ToAWE	M			
DSCH Information to delete		0 .. <Maxnoof DSCHs>		
≥DSCH ID	M			
USCH Information to modify		0 .. <Maxnoof USCHs>		
≥USCH ID	M			
≥Transport Format Set	O			
≥CCTrCH ID	O			UL CCTrCH in which the USCH is mapped
USCH Information to add		0 .. <Maxnoof USCHs>		
≥USCH ID	M			
≥CCTrCH ID	M			UL CCTrCH in which the USCH is mapped

\geq Transport Format Set	M			
USCH Information to delete		0 .. <Maxnoof USCHs>		
\geq USCH ID	M			
RL Information		0..1		
\geq RL ID	M			
\geq Maximum Downlink Power	O		DL Power	
\geq Minimum Downlink Power	O		DL Power	

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

9.1.42 RADIO LINK RECONFIGURATION READY

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
RL Information Response		<i>0..<maxnoof RLS></i>		Only one RL information response group for one group of combined RLs shall be present
≥RL ID	M			
≥ DCH to be Added		<i>0..<maxnoof DCHs></i>		Only one DCH per set of coordinated DCHs shall be included.
>>DCH ID	M			
>>Binding ID	M			
>Transport Layer Address	M			
≥ DCH to be Modified		<i>0..<maxnoof DCHs></i>		Only one DCH per set of coordinated DCHs shall be included.
>>DCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥ DSCH to be Setup		<i>0..<Maxnoof DSCHs></i>		
>>DSCH ID	M			
>>Binding ID	M			
>Transport Layer Address	M			
≥ DSCH to be Modified		<i>0..<Maxnoof DSCHs></i>		
>>DSCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥ USCH to be setup		<i>0 .. <Maxnoof USCHs></i>		
>>USCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥ USCH to be modified		<i>0 .. <Maxnoof USCHs></i>		
>>USCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
Criticality diagnostics	O			

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.43 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Cause	M			
RLs Causing Reconfiguration Failure		<i>0..<maxnoof RLs></i>		
≥RL ID	M			
≥Cause	M			
Criticality diagnostics	O			

Range Bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.

9.1.44 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message type	M			
Node B Communication Context ID	M			
Transaction ID	M			
CFN	M			

9.1.45 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message type	M			
Node B Communication Context ID	M			
Transaction ID	M			

9.1.46 RADIO LINK RECONFIGURATION REQUEST

9.1.46.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
UL DPCH Information		0..1		
>TFCS	O			For the UL.
DL DPCH Information		0..1		
>TFCS	O			For the DL.
>TFCI Signalling Mode	O			
DCHs to Modify		0..<maxnoof DCHs>		
>DCH ID	M			
>Transport Format Set	O			For the UL.
>Transport Format Set	O			For the DL.
>Frame Handling Priority	O			
>UL FP Mode	O			
>ToAWS	O			
>ToAWE	O			
DCHs to Add		0..<maxnoof DCHs>		
>DCH ID	M			
>DCH Combination Ind	O			
>RLC Mode	M			
>Transport Format Set	M			For the UL.
>Transport Format Set	M			For the DL.
>Frame Handling Priority	M			
>Payload CRC Presence Indicator	M			
>UL FP mode	M			
ToAWS	M			
>ToAWE	M			
DCHs to Delete		0..<maxnoof DCHs>		
>DCH ID	M			
DSCH to Modify		0..1		
>Transport Format Set	O			For the DL.
>RL ID	O			
>Frame Handling Priority	O			
>ToAWS	O			
>ToAWE	O			
DSCH to Add		0..1		
>Transport Format Set	M			For the DL.
>RL ID	M			
>Frame Handling Priority	M			
>ToAWS	M			
>ToAWE	M			
DSCH to Delete		0..1		
>RL ID	M			
Radio Link Information		0..<maxnoof RLS>		

RL ID	M			
Maximum DL Power	O		DL Power	
Minimum DL Power	O		DL Power	

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.

9.1.46.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
UL CCH Information		0..<maxnoof CCHs>		
>CCH ID	M			
>TFCS	O			
>Puncture Limit	O			
DL CCH Information		0..<maxnoof CCHs>		
>CCH ID	M			
>TFCS	O			
>Puncture Limit	O			
DCHs to Modify		0..<maxnoof DCHs>		
>DCH ID	M			
>CCH ID	O			UL CCH in which the DCH is mapped.
>CCH ID	O			DL CCH in which the DCH is mapped
>Transport Format Set	O			For the UL.
>Transport Format Set	O			For the DL.
>Frame Handling Priority	O			
>UL FP Mode	O			
>ToAWS	O			
>ToAWE	O			
DCHs to Add		0..<maxnoof DCHs>		
>DCH ID	M			
>RLC Mode	M			
>CCH ID	M			UL CCH in which the DCH is mapped.
>CCH ID	M			DL CCH in which the DCH is mapped
>DCH Combination Ind	O			
>Transport Format Set	M			For the UL.
>Transport Format Set	M			For the DL.
>Frame Handling Priority	M			
>Payload CRC Presence Indicator	M			
>UL FP Mode	M			
>ToAWS	M			
>ToAWE	M			
DCHs to Delete		0..<maxnoof DCHs>		
>DCH ID	M			
DSCH Information to modify		0 .. <Maxnoof DSCHs>		
>DSCH ID	M			
>CCH ID	O			DL CCH in which the DSCH is mapped
>Transport Format Set	O			
>Frame handling Priority	O			

\geq ToAWS	O			
\geq ToAWE	O			
DSCH Information to add		0 .. <Maxnoof DSCHs>		
\geq DSCH ID	M			
\geq CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped
\geq Transport Format Set	M			
\geq Frame handling Priority	O			
\geq ToAWS	M			
\geq ToAWE	M			
DSCH Information to delete		0 .. <Maxnoof DSCHs>		
\geq DSCH ID	M			
USCH Information to modify		0 .. <Maxnoof USCHs>		
\geq USCH ID	M			
\geq CCTrCH ID	O			UL CCTrCH in which the USCH is mapped
\geq Transport Format Set	O			
USCH Information to add		0 .. <Maxnoof USCHs>		
\geq USCH ID	M			
\geq CCTrCH -ID	M			UL CCTrCH in which the USCH is mapped
\geq Transport Format Set	M			
USCH Information to delete		0 .. <Maxnoof USCHs>		
\geq USCH ID	M			
RL Information		0..1		
\geq RL ID	M			
\geq Maximum Downlink Power	O		DL Power	
\geq Minimum Downlink Power	O		DL Power	

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
RL Information Response		<i>0..<maxnoof RLs></i>		Only one RL information response group for one group of combined RLs shall be present
≥RL ID	M			
≥DCH to be Added		<i>0..<maxnoof DCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.
>>DCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥DCH to be Modified		<i>0..<maxnoof DCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.
>>DCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥DSCH to be Setup		<i>0..<Maxnoof DSCHs></i>		
>>DSCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥DSCH to be Modified		<i>0..<Maxnoof DSCHs></i>		
>>DSCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥USCH to be setup		<i>0 .. <Maxnoof USCHs></i>		
>>USCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
≥USCH to be modified		<i>0 .. <Maxnoof USCHs></i>		
>>USCH ID	M			
>>Binding ID	M			
>>Transport Layer Address	M			
Criticality diagnostics	O			

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.48 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
RL Information		1..<maxnoofRLs>		
RL ID	M			

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of radio links for one UE

9.1.49 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context ID	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.50 DL POWER CONTROL REQUEST (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Node B Communication Context ID	M			
Transaction ID	M			
CHOICE <i>procedure scope</i>				
> "ALL RL's"				
>>>DL Reference Power	M		DL power	
> "Individual RL's"				
>>>DL Reference Power Information		1..<maxnoofRLs>		
>>>>RL ID	M			
>>>>DL Reference Power	M		DL power	

Range Bound	Explanation
MaxnoofRLs	Maximum number of Radio Links for a UE

9.1.51 DEDICATED MEASUREMENT INITIATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Node B Communication Context Id	M			
Transaction Id	M			
Measurement Id	M			
Dedicated Measurement Object Type	M			
CHOICE <i>Dedicated Measurement Object Type</i>				
>"RL"				
>>RL Information		1..<maxno ofRLs>		
>>>RL-id	M			
>>>DPCH ID	O			
Dedicated Measurement Type	M			
Measurement Characteristics	M			
Report Characteristics	M			

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's a measurement can be started on.

9.1.52 DEDICATED MEASUREMENT INITIATION RESPONSE

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context Id	M			
Transaction Id	M			
Measurement Id	M			
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with
>"RL"				
>>RL Information		1..<maxno ofRLs>		
>>>RL-id	M			
>>>DPCH ID	O			
>>>Dedicated Measurement Value	M			
>="ALLRL"				
>>Dedicated Measurement Value	M			
CFN	O			Dedicated Measurement Time Reference
Criticality diagnostics	O			

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's the measurement can be started on.

9.1.53 DEDICATED MEASUREMENT INITIATION FAILURE

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context Id	M			
Transaction Id	M			
Measurement Id	M			
Cause	M			
Criticality diagnostics	O			

9.1.54 DEDICATED MEASUREMENT REPORT

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context Id	M			
Transaction Id	M			
Measurement Id	M			
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with
≥"RL"				
>>RL Information		1..<maxnoofRLs>		
>>>RL-id	M			
>>>DPCH ID	O			
>>>Dedicated Measurement Value	M			
≥"ALLRL"				
>>Dedicated Measurement Value	M			
CFN	O			Dedicated Measurement Time Reference

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's the measurement can be started on.

9.1.55 DEDICATED MEASUREMENT TERMINATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
Node B Communication Context Id	M			
Transaction Id	M			
Measurement Id	M			

9.1.56 DEDICATED MEASUREMENT FAILURE INDICATION

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator	M			
Message Type	M			
CRNC Communication Context Id	M			
Transaction Id	M			
Measurement Id	M			
Cause	M			

9.1.57 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
CRNC Communication Context ID	M			
Radio Link Information		1 to <MaxnoofRLs>		
>RL ID	M			
>Cause	M			

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum no. of RLs for one UE.

9.1.58 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
CRNC Communication Context ID	M			
Radio Link Information		1 to <MaxnoofRLs>		
>RL ID	M			

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum no. of RLs for one UE.

9.1.59 COMPRESSED MODE PREPARE (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
NodeB communication context ID	M			
Transaction ID	M			
TGP1	M		Gap Period	Refer to 25.215
TGP2	O		Gap Period	Refer to 25.215
TGL	M			
TGD	M			
PD	M			
UL/DL compressed mode selection	M			
Compressed mode method	M			
Gap Position Mode	M			
SN	C-Flex		TimeSlot	
Downlink Frame Type	M			
Scrambling Code Change	C-SF/2			
Power Control Mode	M			
Power Resume Mode	M			
UL delta Eb/No	M			
UL delta Eb/No after	M			

Condition	Explanation
Flex	This IE is present only if "Gap position Mode" equals to 'flexible'.
SF/2	This IE is present only if Compressed Mode Method equals to SF/2

9.1.60 COMPRESSED MODE READY (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC communication context ID	M			
Transaction ID	M			
Criticality diagnostics	O			

9.1.61 COMPRESSED MODE COMMIT (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
NodeB communication context ID	M			
Transaction ID	M			
CFN	M			

9.1.62 COMPRESSED MODE FAILURE (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
CRNC communication context ID	M			
Transaction ID	M			
Cause	M			
Criticality diagnostics	O			

9.1.63 COMPRESSED MODE CANCEL (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
NodeB communication context ID	M			
Transaction ID	M			

9.1.64 ERROR INDICATION

Information Element	Presence	Range	IE Type and Reference	Semantics Description
Message Type	M			
Message Discriminator	M			
Transaction Id	M			
Cause	C_ifalone			
CRNC Communication Context Id	C_ifUL			
Node B Communication Context Id	C_ifDL			
Criticality diagnostics	C_ifalone			

Condition	Explanation
C_ifDL	This IE is only present when message is transmitted by RNC
C_ifUL	This IE is only present when message is transmitted by node B
C_ifalone	At least either of Cause IE or Criticality Diagnostics IE shall be present.

9.2 Information Element Functional Definition and Contents

9.2.1 Common parameters

9.2.1.1 Add/Delete Indicator

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

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

9.2.1.2 Availability Status

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

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

9.2.1.3 BCCH Modification Time

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
BCCH Modification Time			Integer (0, 2, 4, ...,4095)	All even SFN values are allowed The tabular description is a direct copy from TS 25.331 CR 078

9.2.1.4 Binding ID

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

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

9.2.1.5 Blocking Priority Indicator

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

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Blocking Priority Indicator			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.

9.2.1.6 Cause

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Cause group	M		Enumerated (Radio Network Layer, Transport Layer, Protocol, Misc)	
<i>CHOICE Cause group</i>				
<i>>Radio Network Layer</i>				
<i>>Radio Network Layer Cause</i>	M		Enumerated (unknown C-ID, Cell not available, Power level not supported, UL scrambling code already in use, DL radio resources not available, UL radio resources not available, RL Already Activated/allocated Node B Resources Unavailable Insufficient physical channel resources Measurement not supported for the object, Macrodiversity combining not possible, Reconfiguration not allowed, Requested configuration not supported Synchronization failure, Unspecified)	
<i>>Transport Layer</i>				
<i>>Transport Layer Cause</i>	M		Enumerated (Transport link failure, Transmission port not available, Transport resource unavailable Unspecified)	
<i>>Protocol</i>				
<i>>Protocol Cause</i>			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)	
<i>>Misc</i>				
<i>>Miscellaneous Cause</i>	M		Enumerated (Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified)	

9.2.1.7 CFN

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

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

9.2.1.8 C-ID

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

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

9.2.1.9 Common Measurement Object Type

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Object Type			ENUMERATED (CELL, RACH,...)	

9.2.1.10 Common Measurement Type

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Measurement Type			ENUMERATED (RSSI, Transmitted Carrier Power, Acknowledged RA tries, Timeslot ISCP,...)	

9.2.1.11 Common Measurement Value

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
≥Transmitted Carrier Power Value	O		Enumerated(-35 .. 15), step 0.1 dB	
≥RSSI Value	O		Enumerated(-30..-100) step 0.1	
≥Acknowledged RA tries Value	O		TBD	The number of L1 acknowledged random access tries per transmission time interval on the PCCPCH.
≥Timeslot ISCP (TDD only)	O		TBD	

<Editors Note: Some adjustment of the ranges for these measurements might be needed as they await a decision on range for this measurement in TSG RAN WG1>

9.2.1.12 Common Physical Channel Id

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

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

9.2.1.13 Common Transport Channel Id

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

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

9.2.1.14 Communication Control Port ID

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

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

9.2.1.15 Configuration Generation ID

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

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

9.2.1.16 Criticality diagnostics

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Criticality Diagnostics				
Procedure Code	O		INTEGER (0..255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
Triggering Message	O		ENUMERATED (initiating message, successful outcome, unsuccessful outcome, outcome)	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
Criticality Response	O		ENUMERATED (reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
Transaction Id	O		INTEGER (0..255)	
Information Element Criticality Diagnostics		1 to <maxnoof errors>		
≥Criticality Response	M		ENUMERATED (reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'ignore' shall never be used.
≥IE Id	M		INTEGER (0..65535)	The IE Id of the not understood IE

Range bound	Explanation
<i>maxnooferrors</i>	Maximum no. of IE errors allowed to be reported with a single message. The value for maxnooferrors is 256.

9.2.1.17 CRNC Communication Context ID

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

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

9.2.1.18 DCH Combination Indicator

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

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

9.2.1.19 DCH ID

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

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

9.2.1.20 DL Power

The DL Power IE indicates a power level relative to the [FDD-primary CPICH power] [TDD-primary CCPCH power] configured in a cell.

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

9.2.1.21 Dedicated Measurement Object Type

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Object Type			ENUMERATED (RL,ALLRL,...)	

9.2.1.22 Dedicated Measurement Type

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

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

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

9.2.1.23 Dedicated Measurement Value

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated measurement Value				
≥SIR value	O		Enumerated(-10 .. 20), step 0.1 dB	
≥SIR error Value	O		Enumerated (-10 .. 10), step 0.1 dB	If SIRerror<=-10, SIR error Value shall be set to -10 If SIRerror=>10, SIR error Value shall be set to 10
≥Transmitted Code Power Value	O		Enumerated (-35 .. 15), step 0.1 dB	Relative to CPICH
≥RSCP	O		TBD	TDD only.

<Editors Note: Some adjustment of the ranges for these measurements might be needed as they await a decision on range for this measurement in TSG RAN WG1>

9.2.1.24 DSCH ID

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

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

9.2.1.25 DSCH Transport Format Set

This parameter defines the transport format set for DSCH.

Note: the parameter need to be defined. It may correspond to the DL TFS defined for DCH

9.2.1.26 DSCH Transport Format Combination Set

This parameter defines the transport format combination set for DSCH.

Note: to be defined. Each DSCH TFCI also indicates the code to be used

Note: the parameter need to be defined. It may correspond to the DL TFS defined for DCH

9.2.1.27 Frame Handling Priority

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

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

9.2.1.28 Frame Offset

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

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

9.2.1.29 IB_SG

Segment which is part of an Information Block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG			Bit String	Contents defined in ref:25.331.

9.2.1.30 IB_SG_POS

First position of an Information Block segment in the SFN cycle ($IB_SG_POS < IB_SG_REP$).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG POS			INTEGER (0..2 ¹² -1)	

9.2.1.31 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when $SFN \bmod IB_SG_REP = IB_SG_POS$.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG REP			INTEGER (16, 32, 64, 128, 256, 512, 1024,2048)	Repetition period for the IB segment in frames

9.2.1.32 IB Type

The IB type identifies a specific system information block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB Type			Enumerated (MIB, SIB1, SIB2, ... SIB12, ...)	Complete R99 SIB range still TBD.

9.2.1.33 Indication Type

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

Information Element / Group Name	Presence	Range	IE type and reference	Semantics description
Indication Type			ENUMERATED (No Failure, Service Impacting, Cell Control,...)	Service Impacting – The failure has impacted on the logical resources supported at Node B. Cell Control – The failure has impacted on the ability for the cell parameters to be administered or O&M functions performed.

9.2.1.34 Local Cell ID

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

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

9.2.1.35 Maximum DL Power Capability

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

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

9.2.1.36 Max Transmission Power

Max Transmission Power is maximum power for all downlink channels added together, that is allowed to be used simultaneously in a cell.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum transmission Power			ENUMERATED(0, 1,2 ..50)	Unit dBm Granularity 1 dB

9.2.1.37 Measurement ID

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement ID			Integer(0 .. 2 ²⁰ -1)	

9.2.1.38 Measurement Characteristics

The Measurement Characteristics indicates how the measurement shall be performed.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Characteristics				
≥Measurement Frequency	M		TBD	
≥Averaging Duration	M		TBD	

Editors Note: The exact definition and structure is this information element awaits decisions in TSG RAN WG2.

9.2.1.39 Report Characteristics

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
Report characteristics				
>Report characteristics type			ENUMERATED(On Demand, Periodic, Event A, Event B, Event C, Event D, Event E, Event F)	
>>Periodic Report Information	C – Periodic			
>>>Report Periodicity	M		ENUMERATED (10ms...1min) step 10ms, (1min...1hr) step 1min	The frequency with which the Node B shall send measurement reports. First working assumption!
>>>Event A	C – Event A			
>>>>Measurement Threshold	M		TBD	The threshold for which the Node B shall trigger a measurement report.
>>>>Measurement Hysteresis Time	O		ENUMERATED (10ms...1min) step 10ms,...	
>>>Event B	C – Event B			
>>>>Measurement Threshold	M		TBD	The threshold for which the Node B shall trigger a measurement report.
>>>>Measurement Hysteresis Time	O		ENUMERATED (10ms...1min) step 10ms,...	
>>>Event C	C – Event C			
>>>>Measurement Increase Threshold	M		TBD	
>>>>Measurement Change Time	M		ENUMERATED (10ms...1min) step 10ms,...	The time the measurement entity shall rise on (in ms), in order to trigger a measurement report.
>>>Event D	C – Event D			
>>>>Measurement Decrease Threshold	M		TBD	
>>>>Measurement Change Time	M		ENUMERATED (10ms...1min) step 10ms,...	The time the measurement entity shall fall (in ms), in order to trigger a measurement report.
>>>Event E	C – Event E			
>>>>Measurement Threshold 1	M		TBD	
>>>>Measurement Threshold 2	O		TBD	

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

Editors note: Encoding of threshold TBD.

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

9.2.1.40 Message discriminator

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator			ENUMERATED(Common, Dedicated)	

9.2.1.41 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Type			ENUMERATED (COMMON TRANSPORT CHANNEL SETUP REQUEST, COMMON TRANSPORT CHANNEL SETUP RESPONSE, COMMON TRANSPORT CHANNEL SETUP FAILURE, COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST, COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE, COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE, COMMON TRANSPORT CHANNEL DELETION REQUEST, COMMON TRANSPORT CHANNEL DELETION RESPONSE, BLOCK RESOURCE REQUEST, BLOCK RESOURCE RESPONSE, BLOCK RESOURCE FAILURE, UNBLOCK RESOURCE INDICATION, AUDIT REQUIRED INDICATOR AUDIT REQUEST AUDIT RESPONSE COMMON MEASUREMENT INITIATION REQUEST, COMMON MEASUREMENT INITIATION RESPONSE, COMMON MEASUREMENT INITIATION FAILURE, COMMON MEASUREMENT REPORT, COMMON MEASUREMENT TERMINATION REQUEST, COMMON MEASUREMENT TERMINATION FAILURE INDICATION, CELL SETUP REQUEST, CELL SETUP RESPONSE, CELL SETUP FAILURE, CELL RECONFIGURATION REQUEST, CELL RECONFIGURATION RESPONSE, CELL RECONFIGURATION FAILURE, CELL DELETION REQUEST, CELL DELETION RESPONSE, RESOURCE STATUS INDICATION, SYSTEM INFORMATION UPDATE REQUEST, SYSTEM INFORMATION UPDATE RESPONSE, SYSTEM INFORMATION UPDATE FAILURE, RL SETUP REQUEST, RL SETUP RESPONSE, RL SETUP FAILURE, RL ADDITION REQUEST, RL ADDITION RESPONSE, RL ADDITION FAILURE, RL RECONFIGURATION PREPARE, RL RECONFIGURATION READY, RL RECONFIGURATION FAILURE, RL RECONFIGURATION COMMIT, RL RECONFIGURATION CANCEL, RL RECONFIGURATION REQUEST, RL RECONFIGURATION RESPONSE, RL DELETION REQUEST, RL DELETION RESPONSE, DL POWER CONTROL REQUEST, DEDICATED MEASUREMENT INITIATION REQUEST, DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT INITIATION FAILURE, DEDICATED MEASUREMENT REPORT, DEDICATED MEASUREMENT TERMINATION REQUEST, DEDICATED MEASUREMENT TERMINATION FAILURE INDICATION, RL FAILURE INDICATION,	Future extensions shall be possible

			RL RESTORE INDICATION, COMPRESSED MODE PREPARE, COMPRESSED MODE READY, COMPRESSED MODE COMMIT, COMPRESSED MODE FAILURE, COMPRESSED MODE CANCEL ERROR INDICATION, ...)	
--	--	--	--	--

9.2.1.42 Minimum Spreading Factor

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

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

9.2.1.43 Node B Communication Context ID

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

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

9.2.1.44 Payload CRC presence

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

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

9.2.1.45 Puncture limit

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL puncture limit			INTEGER (0..100)	%

9.2.1.46 Resource Operational State

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

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

9.2.1.47 RLC Mode

This parameter defines the RLC mode of the logical channels multiplexed on the transport channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RLC mode			ENUMERATED(Acknowledged Mode, Unacknowledged Mode, Transparent Mode)	

9.2.1.48 RL ID

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

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

9.2.1.49 Segment Type

Indicates the type of segment of the SIB.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Segment Type			Enumerated (First, Subsequent, Last, Complete)	

9.2.1.50 SIB Deletion Indicator

Indicates if the SIB shall be deleted or not.

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

9.2.1.51 SIB Originator

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

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

9.2.1.52 Shutdown Timer

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

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Shutdown Timer			INTEGER(1..3600)	Value in seconds

9.2.1.53 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI presence			ENUMERATED (Present, not present)	

9.2.1.54 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCS		1 to <maxnoofTFCS>		The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.
≥CTFC	M		INTEGER(0..MaxCTFC-1)	Integer number calculated according to TS 25.331

Range bound	Explanation
MaxnoofTFCS	The maximum number of Transport Format Combinations (1024).
MaxCTFC	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to TS 25.331

9.2.1.55 TFS (Transport Format Set)

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL Transport Format Set				
Dynamic Transport Format Information		1 to <maxTFcount>		
≥Number of Transport blocks	M		INTEGER (0..4095)	
≥Transport Block Size	C – Blocks		INTEGER (1..5000)	Bits
≥CHOICE mode				
≥≥TDD				
≥≥≥Transmission time interval	C-TTIdynamic	1 to <maxTTIcount>	Enumerated(10, 20, 40, 80)	
Semi-static Transport Format Information				
≥Transmission time interval	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80)	msec
≥Type of channel coding	M		ENUMERATED (No coding, Convolutional, Turbo)	
≥Coding Rate	C – Coding		ENUMERATED (1/2, 1/3)	
≥Rate matching attribute	M		INTEGER (1..maxRM)	
≥CRC size	M		ENUMERATED (0, 8, 12, 16, 24)	
≥CHOICE mode				
≥≥TDD				
≥≥≥2 nd interleaving mode	M		Enumerated(Frame related, Timeslot related)	

Condition	Explanation
Blocks	This IE is only present if "Number of Transport Blocks" is greater than 0.
Coding	This IE is only present if IE "Type of channel coding" is "Convolutional" or "Turbo"
<i>TTIdynamic</i>	This IE is mandatory if not defined as semistatic parameter. Otherwise it is absent.
<i>TTIsemistatic</i>	This IE is mandatory if not defined as dynamic parameter. Otherwise it is absent.

Range bound	Explanation
MaxTFcount	Maximum number of different transport formats that can be included in the Transport format set for one transport channel is 32.
MaxRM	Maximum number that could be set as rate matching attribute for a transport channel.
<i>maxTTIcount</i>	The amount of different TTI that are possible for that transport format is 4.

9.2.1.56 ToAWE

TOAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. TOAWE is defined with a positive value relative Latest Time of Arrival (LTOA). A data frame arriving after TOAWE gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ToAWE			INTEGER (0..2559)	msec.

9.2.1.57 ToAWS

TOAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. TOAWS is defined with a positive value relative Time of Arrival Window Endpoint (TOAWE). A data frame arriving before TOAWS gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ToAWS			INTEGER (0..1279)	msec.

9.2.1.58 Transaction ID

The Transaction ID is used to associate all the messages belonging to the same pending procedure of the same NBAP procedure type (e.g. Radio Link Addition), i.e. the Request-, Response-, Confirm-type of messages have the same Transaction ID. The messages belonging to different pending procedures have different Transaction IDs.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transaction ID			INTEGER (0..255)	Since the scope is not clear, the range of this parameter is to be considered a working assumption

9.2.1.59 Transport Layer Address

Transport Layer Address defines the transport address of the NodeB. For details on the Transport Address used see [2].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Layer Address			Bit string(1... 160, ...)	

9.2.1.60 UARFCN

Designate the central frequency of the channel number.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER(0..698,...)	corresponds to 1885.2MHz..2024.8MHz (25.101, section 5.4 and 25.105)

[Editor's Note: in RRC they have additional attributes such as the "raster" included in the IE]

9.2.1.61 UL FP mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL FP mode			ENUMERATED(Normal, Silent)	

9.2.1.62 UL interference level

The UL interference level indicates the UL interference at a certain cell under CRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL interference level			ENUMERATED(-128.0dBm..-60.0dBm)	Resolution is 0.1 dBm.

9.2.2 FDD specific parameters

9.2.2.1 AICH Transmission Timing

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
AICH Transmission Timing			ENUMERATED (0, 1)	According to 25.331 chapter 10.2.6.17.

9.2.2.2 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip offset is used as offset for the DL DPCH relative to the Primary CPICH timing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Chip Offset			INTEGER (0..38399)	Chips

9.2.2.3 Compressed mode method

Defines the method for generating the downlink compressed mode gap, as described in 25.212.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Compressed Mode Method			ENUMERATED (None, Puncturing, SF/2, gating)	None = restore the normal mode

9.2.2.4 D-Field Length

Defines the D Field size of the UL DPCH slot.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D Field Length			ENUMERATED (1, 2)	

9.2.2.5 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Control Field			ENUMERATED (May, Must, Must not)	

9.2.2.6 Diversity Indication

The Diversity Indication indicates if the RL has been or has not been combined with another RL.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Indication			ENUMERATED (Combined, not combined)	

9.2.2.7 Diversity mode

Define the diversity mode to be applied.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Mode			ENUMERATED (None, STTD, Closed loop mode 1, Closed loop mode2)	

9.2.2.8 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to 25.211.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL DPCH slot format			INTEGER (0..16)	

9.2.2.9 DL frame type

This parameter defines if frame structure type 'A' or 'B' shall be used in downlink compressed mode. This is defined in TS 25.212

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Downlink Frame Type			ENUMERATED (TypeA, TypeB)	

9.2.2.10 DL Scrambling Code

DL scrambling code to be used by the RL. One cell may have multiple DL scrambling codes available.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code			INTEGER (0..15)	0= Primary scrambling code of the cell 1...15= Secondary scrambling code

9.2.2.11 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Multiplexing Position			ENUMERATED(Fixed, Flexible)	

9.2.2.12 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD DL Channelisation Code Number			INTEGER(0.. 255)	The maximum value is equal to the DL spreading factor –1

9.2.2.13 FDD S-CCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
FDD S-CCPCH Offset			INTEGER(0.. 149)	0: 0 chip 1: 256 chip 2: 512 chip .. 149: 38144 chip [TS 25.211]

9.2.2.14 Gap Period

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Period			INTEGER(0..255)	Frames

9.2.2.15 Gap Position Mode

The gap position can be fixed or adjustable, as defined in TS 25.212.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Position Mode			ENUMERATED (Fixed, Flexible)	

9.2.2.16 Maximum Number of UL DPDCHs

This parameter is an UE Radio Access Capability parameter which is needed in rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Number of UL DPDCHs			INTEGER (1..6)	

9.2.2.17 Minimum UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is supported by UE. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min UL Channelisation Code length			ENUMERATED(4,8,16,32,64,128,256)	

9.2.2.18 Pattern Duration (PD)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PD			INTEGER(0..2047, ...)	Frames

9.2.2.19 PICH Mode

The number of paging indicators (PIs) in a PICH frame.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
PICH Mode			Enumerated(18, 36, 72, 144)	Number of PI per frame

9.2.2.20 Pilot Bits Used Indicator

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Pilot Bits Used Indicator			ENUMERATED(Pilot Bits Used, Pilot Bits not Used)	

9.2.2.21 Power Control Mode

Power Control Mode specifies the uplink power mode applied during recovery period after each transmission gap in compressed mode. PCM can take 2 values (0 or 1). The different power control modes are described in TS 25.214.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Control Mode			ENUMERATED (0, 1,..)	

9.2.2.22 Power Offset

This IE defines a power offset respect the Downlink transmission power of a DPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Offset			INTEGER (0...24)	Step 0.25 dB, range 0-6 dB

9.2.2.23 Power Resume Mode

Power Resume Mode selects the uplink power control method to calculate the initial transmit power after the gap. PRM can take two values (0 or 1) and is described in TS 25.214.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Resume Mode			ENUMERATED (0, 1,..)	Described in TS 25.214

9.2.2.24 Preamble Signature

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble Signatures			BIT STRING (16)	Bit 0=P0 Bit 1=P1 .. Bit 15=P15 [25.213]

9.2.2.25 Primary Scrambling code

The Primary scrambling code to be used in the cell.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Primary Scrambling Code			Integer (0 .. 511)	

9.2.2.26 Primary CPICH Power

Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH power			Enumerated (-15, ..., 40)	Unit dBm Granularity 0.1 dB

9.2.2.27 Propagation Delay

Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Propagation Delay			INTEGER (0..255)	Chips. Step size is 3 chips. 0=0 chips, 1=3 chips, ...

9.2.2.28 RACH Slot Format

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
RACH Slot Format			ENUMERATED(0..3)	See 25.211.

9.2.2.29 RACH sub Channel numbers

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
RACH Sub Channel Numbers			BIT STRING (15)	Bit 0=Sub Channel Number 0 Bit 1=Sub Channel Number 1 ... Bit 14=Sub Channel Number 14

9.2.2.30 Scrambling code change

This parameter indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Change			ENUMERATED (Change, No change)	

9.2.2.31 Scrambling Code Word Number

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Word Number			INTEGER (0..255)	

9.2.2.32 Secondary CCPCH Slot Format

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Secondary CCPCH Slot Format			INTEGER(0..8)	

9.2.2.33 S-Field Length

The UE uses the S Field of the UL DPCCH slot to send the SSID Cell ID to the network.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S Field Length			ENUMERATED (1, 2)	

9.2.2.34 SS DT Cell Identity

The SS DT Cell ID is a temporary ID for SS DT assigned to a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SS DT Cell Identity			ENUMERATED (a, b.., h)	

9.2.2.35 SS DT Cell ID Length

The SS DT Cell ID Length parameter shows the length of the SS DT Cell ID.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell ID Length			ENUMERATED (Short, Medium, Long)	

9.2.2.36 SS DT Support Indicator

The SS DT Support Indicator indicates whether a RL supports SS DT or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SS DT Support Indicator			ENUMERATED (SS DT Supported, SS DT not supported).	

9.2.2.37 SS DT Indication

The SS DT Indication indicates whether SS DT is in use by the UE or not.

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
SS DT Indication			ENUMERATED (SS DT Active in the UE, SS DT not Active in the UE)	

9.2.2.38 STTD Indicator

Indicates if STTD shall be active or not.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
STTD Indicator			ENUMERATED(active, inactive)	

9.2.2.39 T_Cell

Timing delay used for defining start of SCH, CPICH and the DL scrambling code(s) in a cell relative BFN. Resolution 256 chips.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
T Cell			Enumerated (0 , 1, ...,9)	0: 0 chip 1: 256 chip .. 9: 2304 chip [TS 25.402]

9.2.2.40 TFCI signalling mode

This parameter indicates if the normal or split mode is used for the TFCI.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI signalling mode			ENUMERATED (Normal, Split)	

9.2.2.41 TGD

Transmission Gap Distance is the duration of transmission between two consecutive transmission gaps within a transmission gap period, expressed in number of frames. In case there is only one transmission gap in the transmission gap period, this parameter shall be set to zero.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGD			INTEGER(0..255)	Frames

9.2.2.42 TGL

Transmission Gap Length is the duration of no transmission, expressed in number of slots.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGL			INTEGER (3,4,7,10,14)	Slot

9.2.2.43 TPC DL step size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TPC Downlink step size			ENUMERATED (0.5, 1)	

9.2.2.44 Transmit Diversity Indicator

Indicates if transmit diversity shall be active or not for primary and secondary CPICH.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Transmit Diversity Indicator			ENUMERATED (active, inactive)	

9.2.2.45 TSTD Indicator

Indicates if TSTD shall be active or not.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
TSTD Indicator			ENUMERATED (active, inactive)	

9.2.2.46 UL/DL compressed mode selection:

This parameter specifies whether compressed mode is used in UL only, DL only or both UL and DL

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL/DL compressed mode selection			ENUMERATED (in UL only, DL only or both UL and DL)	

9.2.2.47 UL delta Eb/No

The delta in uplink Eb/No that shall be added to the Eb/No target used during compressed mode frames.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta Eb/No			Enumerated (-6..+10dB)	Step 0.1 dB.

9.2.2.48 UL delta Eb/No after

The delta in uplink Eb/No target that shall be added to the Eb/No target used one frame after the compressed mode frames.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta Eb/No after			Enumerated (-6..+10dB)	Step 0.1 dB.

9.2.2.49 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, accordingly to 25.211

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH slot format			INTEGER (0..5)	

9.2.2.50 UL Eb/No

The UL Eb/No indicates a received UL Eb/No.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Eb/No			INTEGER (0..255)	Resolution is 0.1 dB, range 0-25.5 dB.

9.2.2.51 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL scrambling code				
≥UL scrambling code number	M		INTEGER (0.. $2^{24}-1$)	
≥UL scrambling code length	M		ENUMERATED(Short, Long)	

9.2.3 TDD specific Parameters

9.2.3.1 Burst Type

The Burst Type as described in TS25.221.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Burst Type			ENUMERATED (Type1, Type2)	

9.2.3.2 CCTrCH ID

The CCTrCH ID identifies unambiguously a CCTrCH inside a Radio Link.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CCTrCH ID			INTEGER (0..15)	

9.2.3.3 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the Code Groups, Scrambling Codes, Midambles and Toffset (see table 9 of TS25.223)

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Parameter ID			INTEGER (0..127)	

9.2.3.4 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DPCH ID	M		INTEGER (0..239)	

9.2.3.5 Max PRACH Midamble shift

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Max PRACH Midamble Shifts			ENUMERATED (4, 8)	

9.2.3.6 Midamble shift

Different bursts transmitted simultaneously, using the same midamble code shall use different Midamble Shifts.

The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts.

The range of this parameter is 0 .. 15 for long midamble and 0 .. 2 for short midamble.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Midamble Shift			INTEGER (0..15)	

9.2.3.7 Paging Indicator Length

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Paging Indicator Length			INTEGER (2 4 8)	number of symbols in the page indicator / see TS25.221

9.2.3.8 PCCPCH Power

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
PCCPCH Power			INTEGER(-15..+40dBm)	Unit 0.1dBm

9.2.3.9 PRACH Midamble

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
PRACH Midamble			ENUMERATED (Inverted, Direct)	

9.2.3.10 PSCH Time Slot

The PSCH Time Slot is only applicable if the value of Sync Case IE is Case 2 or 3.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PSCH Time Slot			INTEGER(0..6)	

9.2.3.11 PSCH Power

PSCH power is the power that should be used for transmitting the Physical Synch Channel in a cell. Primary sequence (Primary SCH) and secondary sequences (Secondary SCH) are superimposed for transmission.

Relation of TX power between Primary and Secondary is fixed, thus only one value is to be configured.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
PSCH Power			Integer (0..511)	

9.2.3.12 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Length			INTEGER(1..63)	

9.2.3.13 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot K is assigned to a physical channel in the Radio Frame J , it is assigned to the same physical channel also in all the Radio Frames $J+n*Repetition\ Period$ (where n is an integer).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Period			ENUMERATED(1,2,4,8,16,32,64)	

9.2.3.14 Sync case

The PSCH and PCCPCH are mapped on one or two downlink slots per frame. There are three cases of PSCH and PCCPCH allocation as follows:

- Case 1) PSCH and PCCPCH allocated in a single TS#k
- Case 2) PSCH in two TS and PCCPCH in the same two TS: TS#k and TS#k+8
- Case 3) PSCH in two TS, TS#k and TS#k+8, and the PCCPCH in TS#i, pointed by PSCH.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Sync Case			Integer (1..3)	

9.2.3.15 Synchronisation method

This parameter indicates which synchronisation method shall be applied.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Synchronisation Method			ENUMERATED (ExternalReference, LockedToMaster Cell, One Time Synchronisation)	

9.2.3.16 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Channelisation Code			ENUMERATED ((1/1), (2/1), (2/2), (4/1),...(4/4), (8/1), (8/8), (16/1)... (16/16))	

9.2.3.17 TDD Chip Offset

The Chip Offset Adjustment represent the timing adjustment to be applied to achieve frame synchronisation.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Chip Offset			INTEGER (-19200.. +19199)	Chip

9.2.3.18 TDD Physical Channel Offset

The Offset represents the phase information for the allocation of a physical channel. (SFN mod Repetition Period = Offset).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Physical Channel Offset			INTEGER (0..63)	

9.2.3.19 TDD S-CCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
TDD S-CCPCH Offset			INTEGER(0.. 63)	

9.2.3.20 TFCI Coding

The TFCI Coding describes the way how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Coding			Enumerated (4, 8, 16, 32)	

9.2.3.21 Time Slot

The Time Slot represents the minimum time interval inside a Radio Frame that can be assigned to a Physical Channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Time Slot			INTEGER (0..14)	

9.2.3.22 Time Slot Direction

This parameter indicates whether the TS in the cell is used in Uplink or Downlink direction.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Time Slot Direction			Enumerated (UL, DL)	

9.2.3.23 Time Slot Status

This parameter indicates whether the TS in the cell is active or not.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Time Slot Status			Enumerated (active, notActive)	

9.2.3.24 Transmission Diversity Applied

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Transmission Diversity Applied			Boolean	

9.2.3.25 USCH ID

The USCH ID uniquely identifies a USCH within a Node B Communication Context.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
USCH ID			INTEGER (0..255)	

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 032r1

Current Version: **3.0.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#7**

list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects:

(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source:

RAN-WG3

Date: 22 Feb 2000

Subject:

Radio Link Failure/Restoration procedure text update

Work item:

Category:

(only one category shall be marked with an X)

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release: Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

Adaptation of procedure text according to RRM Ad-Hoc agreement.

Clauses affected:

8.3.12.2 and 8.3.13.2

Other specs

Other 3G core specifications

→ List of CRs: CR 066 on TS25.214 V3.1.0, CR 014 on TS25.224 V3.1.0

affected:

Other GSM core specifications

→ List of CRs:

MS test specifications

→ List of CRs:

BSS test specifications

→ List of CRs:

O&M specifications

→ List of CRs:

Other

comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

8.3.12 Radio Link Failure

8.3.12.1 General

This procedure is used by Node B to indicate a failure in one or more radio links.

8.3.12.2 Successful Operation



Figure 1: Radio Link Failure procedure: Successful Operation

When Node B detects that one or more radio link is no longer available, it sends the RADIO LINK FAILURE INDICATION message to CRNC indicating the failed radio links with the most appropriate cause values in the *Cause IE*.

When the Radio Link Failure procedure is used to notify the ~~non-achievement or~~ loss of UL synchronisation, the message ~~is shall be sent when indicated by the UL out-of-sync algorithm defined in [TS25.214 and TS25.224]. when~~ the UL synchronisation of the radio link is not achieved at the RL Setup, or RL Addition procedures, or it is lost during an active connection.

Typical cause values are:

Radio Network Layer Causes:

- Synchronisation Failure

Miscellaneous Causes:

- Control Processing Overload
- HW Failure
- O&M Intervention

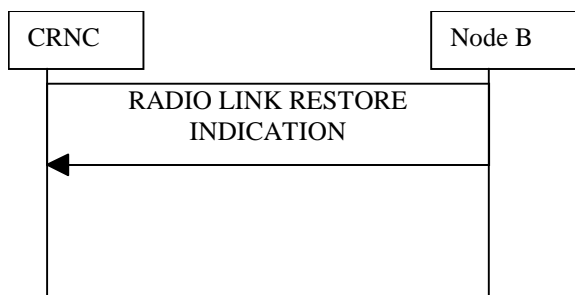
8.3.12.3 Abnormal Conditions

8.3.13 Radio Link Restoration

8.3.13.1 General

This procedure is used by the Node B to notify the achievement and re-achievement of uplink synchronisation.

8.3.13.2 Successful Operation

**Figure 2: Radio Link Restoration procedure: Successful Operation**

The Node B ~~may~~ ~~shall initiate~~ send the RADIO LINK RESTORE INDICATION message to the CRNC when indicated by the UL sync detection algorithm defined in [TS25.214 and TS25.224]. ~~this procedure only if it has previously used the RL Failure procedure to notify the loss of uplink synchronisation. If the uplink synchronisation is re-established, the Node B shall send the RL RESTORE INDICATION message to the CRNC.~~

The Node B shall not send RADIO LINK RESTORE INDICATION message if Radio Link Deletion procedure has already been activated in the Node B after the RADIO LINK FAILURE INDICATION sent by the Node B.

8.3.13.3 Abnormal Condition

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>						
25.433	CR	045r1						
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team						
For submission to: RAN #7 <small>list expected approval meeting # here ↑</small>	for approval for information	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;"> </td></tr> </table> <table style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr><td style="text-align: center;">strategic</td><td style="border: 1px solid black; width: 20px; height: 20px;"></td></tr> <tr><td style="text-align: center;">non-strategic</td><td style="border: 1px solid black; width: 20px; height: 20px;"></td></tr> </table> (for SMG use only)	X		strategic		non-strategic	
X								
strategic								
non-strategic								

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** 23 Feb 00

Subject: Alignment of Abnormal Event Handling

Work item: _____

Category:	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"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: The current specification is internally and externally inconsistent in this area. This CR aligns internally, with RANAP and NBAP.

Clauses affected: 8.2.1.3, 8.2.1.4, 8.2.2.3, 8.2.2.4, 8.2.3.4, 8.2.12.4, 8.2.13.4, ~~8.2.17.4~~, 8.3.2.4, 8.3.5.3, 8.3.4.3, ~~9.2.1.6~~, 10.4

Other specs affected:	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: 25.413 (052), 25.423 (055) → List of CRs: _____ → List of CRs: _____ → List of CRs: _____ → List of CRs: _____
------------------------------	--	---

Other comments: Some of the section numbering in the 3.0.0 version is non-sequential and repeated, so the section numbers above should be treated with care!

The change to rev 1 is the removal of the proposed changes to the RL Setup and Cause sections, as well as addition to 10.4.



<----- double-click here for help and instructions on how to create a CR.

8.2.1 Common Transport Channel Setup

8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, AICH(FDD), FACH, PCH, and RACH.

8.2.1.2 Successful Operation

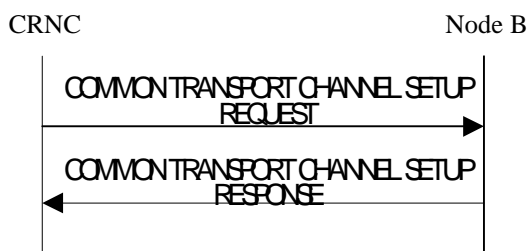


Figure 1: Common Transport Channel Setup procedure, successful case

The procedure is initiated with a COMMON TRANSPORT CHANNEL SETUP REQUEST message sent from the CRNC to the Node B.

One message can configure only one of the following combinations:

- [FDD-one Secondary CCPCH, and FACHes, PCH and PICH related to that Secondary CCPCH], or
- [TDD- Secondary CCPCHes and FACHes, PCHes with the corresponding PICH related to that group of Secondary CCPCHes], or
- one PRACH, and one RACH and one AICH(FDD) related to that PRACH at the time.

[FDD - Secondary CCPCH]: When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a Secondary CCPCH, Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.
 [FDD- The handling of the optional *STTD* IE is FFS.]

[TDD - Secondary CCPCHes]: When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a Secondary CCPCHes, Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[TDD- FACHs and PCHs may be mapped onto a CCTrCH which may consist of several Secondary CCPCHes]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains one or several FACHes, Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PCH and a PICH, Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.
 [FDD- The handling of the optional *STTD* IE for PICH is FFS.]

PRACH: When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PRACH, Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

FDD- The handling of the optional *STTD* IE for AICH (FDD) is FFS.]

After a successful procedure, the defined common transport channels and the common physical channels have adopted the operational state Enabled in Node B and the common transport channels exist on the Uu interface. Node B shall store the new value of *Configuration Generation ID* IE and it shall respond with the COMMON TRANSPORT CHANNEL SETUP RESPONSE message with the transport layer information for the configured common transport channels.

8.2.1.3 Unsuccessful Operation

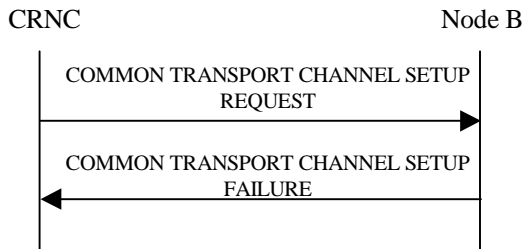


Figure 2: Common Transport Channel Setup procedure, unsuccessful case

If the Node B is not able to support all part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The *Cause Value* IE shall be set to an appropriate value. The new value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with a COMMON TRANSPORT CHANNEL SETUP FAILURE message.

Typical cause values are as follows:

Radio Network Layer Cause

- Cell not available
- [Unknown C-ID](#)
- Power level not supported
- NodeB Resources unavailable

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

- O&M Intervention
- Unspecified Failure
- Control processing overload
- HW failure

8.2.1.4 Abnormal Conditions

If the C ID in the COMMON TRANSPORT CHANNEL SETUP REQUEST message is not existing in the Node B, it shall respond with the COMMON TRANSPORT CHANNEL SETUP FAILURE message with the Cause IE = 'unknown C-ID'.

8.2.2 Common Transport Channel Reconfigure

8.2.2.1 General

This procedure is used for reconfiguring common transport channels and/or common physical channels, while they still might be in operation.

8.2.2.2 Successful Operation

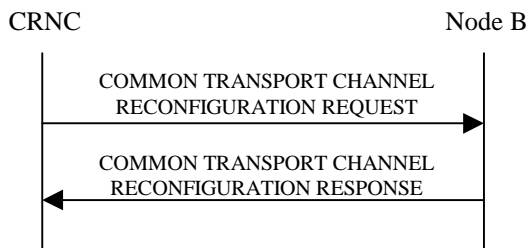


Figure 3: Common Transport Channel Reconfiguration, successful case

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B.

[TDD S-CCPCH]: If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *S-CCPCH Power* IE, the Node B shall reconfigure the power that the indicated S-CCPCH shall use.

FACH: When one or several FACHes are present Node B reconfigures the indicated FACHes.

[FDD] If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the FACH may use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the FACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the FACH shall use.

PCH: When one PCH [TDD or several PCHs] is present Node B reconfigures the indicated PCH [TDD PCHs].

[FDD If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

PICH: When a PICH is present Node B reconfigures the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

[FDD- PRACH]: When a PRACH is present Node B reconfigures the indicated PRACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Preamble Signatures Information, the Node B shall reconfigure the preamble signatures that the PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Slot Format Information, the Node B shall reconfigure the slot formats that the PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Sub Channel Information, the Node B shall reconfigure the sub channel numbers that the PRACH shall use.

[FDD- AICH]: When a AICH is present Node B reconfigures the indicated AICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power IE*, the Node B shall reconfigure the power that the AICH shall use.

After a successful procedure, the channels have adopted the new configuration in Node B. Node B shall store the new value of *Configuration Generation ID IE*, and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

8.2.2.3 Unsuccessful Operation

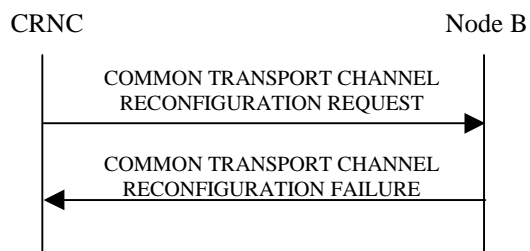


Figure 4: Common Transport Channel Reconfiguration procedure, unsuccessful case

If the Node B is not able to support all parts of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message. The *Cause Value IE* shall be set to an appropriate value. The new value of *Configuration Generation ID IE* from the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with the COMMON TRANSPORT CHANNEL SETUP FAILURE message, the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONGURATION FAILURE message.

Typical cause values are as follows:

Radio Network Layer Cause

- Cell not available
- Unknown C-ID
- Power level not supported
- NodeB Resources unavailable

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

- O&M Intervention
- Unspecified Failure
- Control processing overload
- HW failure

8.2.2.4 Abnormal Conditions

~~If the C-ID in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message is not existing in the Node B, it shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message with the Cause IE = 'unknown C-ID'.~~

8.2.3 Common Transport Channel Delete

8.2.3.1 General

This procedure is used for deleting common physical channels and common transport channels setup by the Common Transport Channel Setup procedure in a cell.

8.2.3.2 Successful Operation

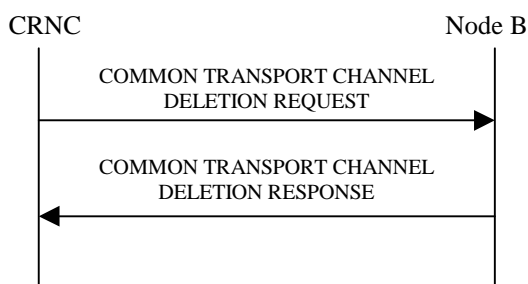


Figure 5: Common Transport Channel Deletion procedure, successful case

The procedure is initiated with a COMMON TRANSPORT CHANNEL DELETION REQUEST message sent from the CRNC to the Node B.

Secondary CCPCH: When the COMMON TRANSPORT CHANNEL DELETION REQUEST message contains a Secondary CCPCH, Node B shall delete the indicated channel and the FACHes and PCH supported by that Secondary CCPCH. If there is a PCH that is deleted, the PICH associated with that PCH shall also be deleted.

PRACH: When the COMMON TRANSPORT CHANNEL DELETION REQUEST message contains a PRACH, Node B shall delete the indicated channel and the RACH supported by the PRACH. [FDD- The AICH associated with the PCH shall also be deleted.]

[TDD- If the requested common physical channel is a part of a CCTrCH, all common transport channels and all common physical channels associated with this CCTrCH shall be deleted.]

After a successful procedure, the channels are deleted in Node B. Node B shall store the new value of the *Configuration Generation ID* IE, and respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

8.2.3.3 Unsuccessful Operation

-

8.2.3.4 Abnormal Conditions

If the C-ID in the COMMON TRANSPORT CHANNEL DELETION REQUEST message is not existing in the Node B or the Common Physical Channel ID does not exist in the Cell, the Node B shall respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

8.2.12 Cell Setup

8.2.12.1 General

This procedure is used to set up a cell in Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in Node B identified via the *Local Cell ID* IE.

8.2.12.2 Successful operation

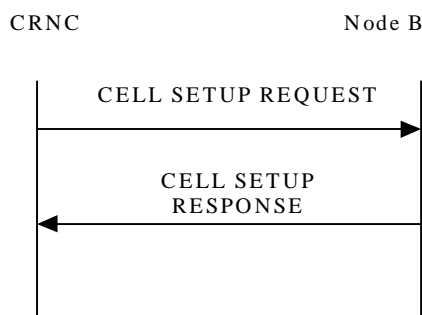


Figure 6: Cell Setup Successful case

The procedure is initiated with a CELL SETUP REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD If the CELL SETUP REQUEST message includes the *Secondary CPICH Information* IE group the Node B shall configure and activate the Secondary CPICH in the cell according to received configuration data.

The *Maximum transmission power* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

When the cell is successfully configured the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD- When the cell is successfully configured CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][TDD- When the cell is successfully configured PSCH, SCH, Primary CCPCH and BCH exist and the switching-points for the TDD frame structure are defined.]

8.2.12.3 Unsuccessful operation

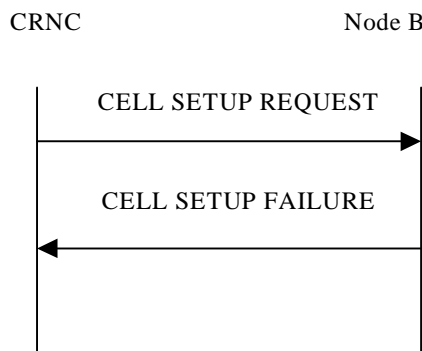


Figure 7: Cell Setup Unsuccessful case

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to CRNC.

In this case the cell is Non Existing in Node B. The Configuration Generation ID shall not be changed in Node B.

The *Cause* IE shall be set to an appropriate value.

8.2.12.4 Abnormal Conditions

~~If the CELL SETUP REQUEST message includes a Local Cell ID IE that is Non Existing in Node B the Node B shall send the CELL SETUP FAILURE message as response.~~

8.2.13 Cell Reconfiguration

8.2.13.1 General

This procedure is used to reconfigure a cell in Node B.

8.2.13.2 Successful operation

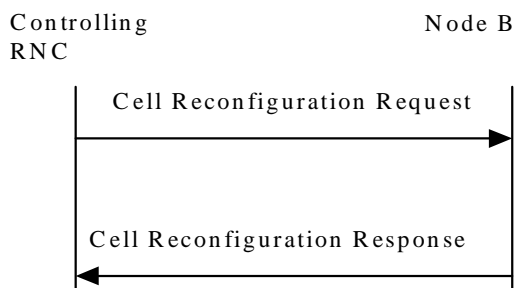


Figure 8: Cell Reconfiguration Successful case

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information* IE group the Node B shall reconfigure Primary SCH power in the cell according to *Primary SCH Power* IE value.

[FDD If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information* IE group the Node B shall reconfigure Secondary SCH power in the cell according to the *Secondary SCH Power* IE value.

[FDD If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE group the Node B shall reconfigure Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. NodeB shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value]

[FDD If the CELL RECONFIGURATION REQUEST message includes the *Secondary CPICH Information* IE group the Node B shall reconfigure Secondary CPICH power in the cell according to the *Secondary CPICH Power* IE value.

[TDD If the CELL RECONFIGURATION REQUEST message includes the *PSCH Information* IE group the Node B shall reconfigure PSCH power in the cell according to the *PSCH Power* IE value

[FDD If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE group the Node B shall reconfigure BCH power in the cell according to the *BCH Power* IE value.

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE group the Node B shall reconfigure P-CCPCH power in the cell according to the *P-CCPCH Power* IE value. NodeB shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power IE* the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timeslot Information IE* group the Node B shall reconfigure switching-point structure in the cell according to the *Timeslot IE* value.]

When the cell is successfully reconfigured the Node B shall store the new *Configuration Generation ID IE* value and send a CELL RECONFIGURATION RESPONSE message as a response.

8.2.13.3 Unsuccessful operation

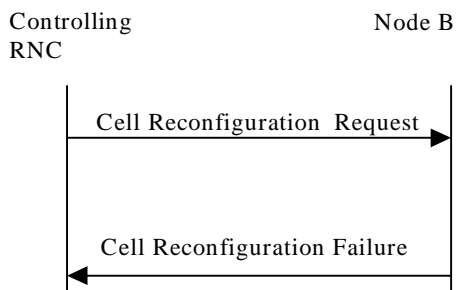


Figure 9: Cell Reconfiguration Unsuccessful case

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message the CELL RECONFIGURATION FAILURE message shall be sent to CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in Node B.

The Cause IE shall be set to an appropriate value.

(Note.: Remark received that at WG3#7, in tdoc D63 (secretary minutes), it was stated that the failure message should be added with a list of cause values, with one cause value per failed reconfiguration item. It is not clear what functional impact this have and how it should be coded in the CELL RECONFIGURATION FAILURE message.)

8.2.13.4 Abnormal Conditions

~~If the CELL RECONFIGURATION REQUEST message includes a *Local Cell ID IE* that is Non Existing in Node B the Node B shall send the CELL RECONFIGURATION FAILURE message as response.~~

~~The Cause IE shall be set to an appropriate value.~~

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

8.2.17.2 Successful operation

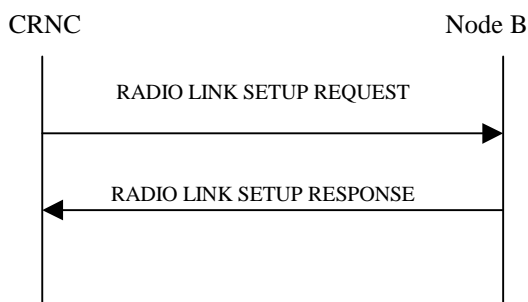


Figure 10: RL Setup procedure: Successful case

The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to Node B.

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

[FDD – The RL Setup procedure can be used to setup one or more radio links. The procedure shall include the establishment of one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for setup of one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs. The Radio Link Setup Request message shall include the required TFS and TFCS for the DCH, DSCH and USCH channels.]

[FDD] The *Diversity Control Field IE* indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field IE* indicates, "may be combined with already existing RLs", then Node B shall decide for either of the alternatives. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the NodeB shall choose which RL(s) to combine it with.

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator IE* for a DCH to be added, the Node B shall

- Treat all DCHs with the same value of this IE as a set of co-ordinated DCHs and
- Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator IE* in the new configuration

The received *Frame Handling Priority IE* specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

[FDD] If the *Propagation Delay IE* is present, the Node B may use this information to speed up the detection of L1 synchronization.

The included *RLC Mode IE* may be used by the NodeB to optimise the power control.

[FDD] In FDD mode, the *UL Eb/No IE* included in the message shall be used by the Node B as initial UL Eb/No target for the UL power control.

The Node B shall start the DL transmission using the initial DL power specified in the message. The DL power can then vary accordingly to the fast power control, but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.

If the RLs are successfully setup, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

[FDD] The Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.

[TDD – The NodeB shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

The NodeB shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DSCH of this RL.

[TDD – The NodeB shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be specify for only one of the coordinated DCHs.

8.2.17.3 Unsuccessful Operation

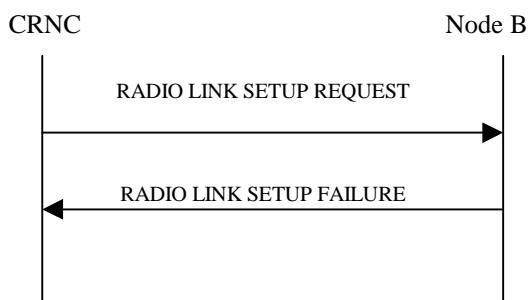


Figure 11: RL Setup procedure: Unsuccessful case

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

- O&M Intervention
- Unspecified Failure

- Control processing overload
- HW failure

8.2.17.4 Abnormal Conditions

~~If the Node B receives a CRNC Context ID for which RL(s) have already been established the Node B shall send the RADIO LINK SETUP FAILURE message to the CRNC, indicating the reason for failure.~~

8.3.2 Synchronised Radio Link Reconfiguration Preparation

8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a Node B.

8.3.2.2 Successful Operation

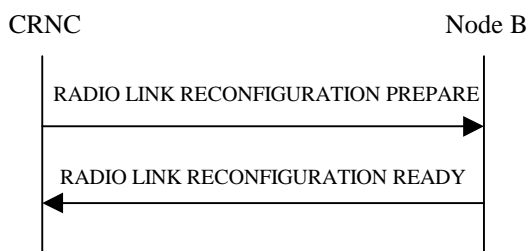


Figure 12: Synchronised Radio Link Reconfiguration procedure, Successful Case

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set (UL)* IE for a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set (DL)* IE for a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL DCH FP Mode* IE for a DCH to be modified, the Node B shall apply the new DCH FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH to be modified, the Node B shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH to be modified, the Node B shall apply the new ToAWE in the user plane for this DCH in the new configuration.

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall.

1. treat all DCHs with the same value of this IE as a set of coordinated DCHs and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration

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 may use the included *RLC Mode* IE to optimise the power control.

The Node B shall use the included *UL DCH FP Mode* IE for a DCH to be added as the new DCH FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

If of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new Downlink Channelisation Code(s) in the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *UL DPCH Information* IE groups, the Node B shall apply the new UL physical channel(s) setting in the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *DL DPCH Information* IE groups, the Node B shall apply the new physical channel(s) setting in the new configuration.]

The Node B shall use the *TFCS (UL)* IE when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

The Node B shall use the *TFCS (DL)* IE when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCCH Structure* IE, group the Node B shall set the new Uplink DPCCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

If the RADIO LINK RECONFIGURATION PREPARE includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the SSDT Indication IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

DSCH Addition/Modification/Deletion:

[FDD] It is FFS how the Node B shall treat any included DSCH Information.

[TDD – The RADIO LINK RECONFIGURATION PREPARE message shall include DSCH information and USCH information for the DSCHs and USCHs to be added/modified/deleted. The NodeB shall use this information to add/modify/delete the indicated DSCH and USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DCHs/DSCHs/USCHs being added or modified.]

If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-to-be-added group or DCH-to-be-modified group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

8.3.2.3 Unsuccessful Operation

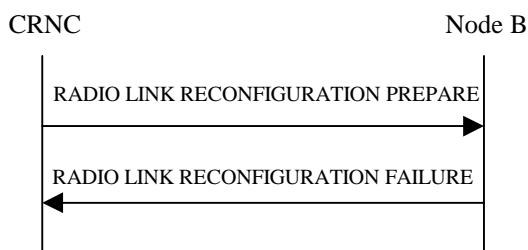


Figure 13: Synchronised Radio Link Reconfiguration procedure, Unsuccessful Case

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of coordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration procedure fails for one or more RLs the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

- O&M Intervention
- Unspecified Failure

- Control processing overload
- HW failure

8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC ~~with~~.

8.3.3 Synchronised Radio Link Reconfiguration Commit

8.3.3.1 General

This procedure is used to order the Node B to switch to the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.5.2 Successful Operation

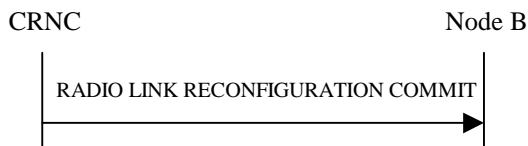


Figure 14: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

The Node B shall switch to the new configuration previously prepared by the Synchronised RL Reconfiguration procedure at the CFN requested by the CRNC when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC.

8.3.5.3 Abnormal Conditions

~~If the Node B receives the RADIO LINK RECONFIGURATION COMMIT message from the CRNC when there is no new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation procedure, the message shall be ignored.~~

8.3.4 Synchronised Radio Link Reconfiguration Cancellation

8.3.4.1 General

This procedure is used to order the Node B to release the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.4.2 Successful Operation

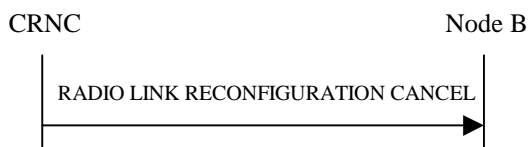


Figure 15: Synchronised Radio Link Reconfiguration Cancellation Procedure, Successful Case

The NodeB shall release the new configuration previously prepared by the Synchronised RL Reconfiguration Preparation procedure and continue using the old configuration when receiving the RADIO LINK RECONFIGURATION CANCEL message from the CRNC.

8.3.4.3 Abnormal Conditions

~~If the NodeB receives the RADIO LINK RECONFIGURATION CANCEL message from the CRNC when there is no new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation procedure, the message shall be ignored.~~

9.2.1.6 Cause

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Cause group	M		Enumerated (Radio Network Layer, Transport Layer, Protocol, Misc)	
<i>CHOICE Cause group</i>				
<i>Radio Network Layer</i>				
Radio Network Layer Cause	M		Enumerated (unknown C-ID, Cell not available, Power level not supported, UL scrambling code already in use, DL radio resources not available, UL radio resources not available, RL Already Activated/allocated Node B Resources Unavailable Insufficient physical channel resources Measurement not supported for the object, Macrodiversity combining not possible, Reconfiguration not allowed, Requested configuration not supported Synchronization failure, Unspecified, <i>Context already exists</i>)	
<i>Transport Layer</i>				
Transport Layer Cause	M		Enumerated (Transport link failure, Transmission port not available, Transport resource unavailable Unspecified)	
<i>Protocol</i>				
Protocol Cause			Enumerated (Transaction not allowed, Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state Semantic error Unspecified)	
<i>Misc</i>				
Miscellaneous Cause	M		Enumerated (Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified)	

10.4 Logical Error Handling

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed (unless otherwise specified) as defined by the class of the elementary procedure, irrespective of the criticality of the IE's containing the erroneous values.

Class 1:

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a failure message, the failure message shall be sent with an appropriate cause value.

Typical cause values are:

- Protocol Causes:
 1. Semantic Error
 2. Message not compatible with receiver state

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a failure message, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

Where the logical error exists in a response message of a class 1 procedure, local error handling shall be initiated.

Class 2:

Where the logical error occurs in a message of a class 2 procedure, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

Class 3:

Where the logical error occurs in a request message of a class 3 procedure, and the procedure has a failure message, the failure message shall be sent with an appropriate cause value. Typical cause values are:

1. Semantic Error
2. Message not compatible with receiver state

Where the logical error is contained in a request message of a class 3 procedure, and the procedure does not have a failure message, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

Where the logical error exists in a response message of a class 3 procedure, local error handling shall be initiated.

3GPP-RAN-WG3 Meeting #11
Sophia Antipolis, France, 28 February – 3
March 2000

Document R3-000797

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>	
25.433	CR	067r1	Current Version: 3.0.0
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>	
For submission to: TSG RAN#7	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	<small>(for SMG use only)</small>
<small>list expected approval meeting # here ↑</small>	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: RAN-WG3 **Date:** 24th Jan 2000

Subject: Restructuring of System Information Update Request

Work item:

Category:	F Correction <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/>
<small>(only one category shall be marked With an X)</small>	A Corresponds to a correction in an earlier release <input type="checkbox"/>		Release 96 <input type="checkbox"/>
	B Addition of feature <input type="checkbox"/>		Release 97 <input type="checkbox"/>
	C Functional modification of feature <input type="checkbox"/>		Release 98 <input type="checkbox"/>
	D Editorial modification <input checked="" type="checkbox"/>		Release 99 <input checked="" type="checkbox"/>
			Release 00 <input type="checkbox"/>

Reason for change: IB_REP was moved outside the current groups, since repetition period should be identical for segments belonging to same System information block

Clauses affected: 9.1.32, 9.3.3

Other specs Affected:	Other 3G core specifications <input type="checkbox"/>	→ List of CRs:	
	Other GSM core specifications <input type="checkbox"/>	→ List of CRs:	
	MS test specifications <input type="checkbox"/>	→ List of CRs:	
	BSS test specifications <input type="checkbox"/>	→ List of CRs:	
	O&M specifications <input type="checkbox"/>	→ List of CRs:	

Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

9.1.32 SYSTEM INFORMATION UPDATE REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
C-ID	M			
BCCH Modification Time	O			
MIB/SIBInformation		1.. maxIB		
IB Type	M			
SIB Deletion Indicator	C-NotMIB			
CHOICE <i>DeletionIndicator</i>				
<i>NoDeletion</i>				
SIB Originator	C-NotMIB			
IB SG REP	<u>M</u>			
Segment Information		1.. maxIBSEG		
Segment Type	M			
IB SG REP	M			
IB SG POS	M			
IB SG	C – CRNCOri gination			

Range bound	Explanation
1..maxIB	Maximum number of information Blocks supported in a physical channel scheduling cycle
1..maxIBSEG	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOri gination	The IE shall be present if <i>the SIB Originator</i> IE is set to 'CRNC'
NotMIB	This IE shall be present if the IB Type is not equal to "MIB"

9.3.3 NBAP PDU Content Definitions

```
--
-- Abbreviated
--
-- *****
-- SYSTEM INFORMATION UPDATE REQUEST
-- *****
-- Abbreviated
--
--
```

```
No-DeletionList-SystemInfoUpdate ::= SEQUENCE {
sIB-Originator          sIB-Originator          OPTIONAL,
iB-SG-REP              iB-SG-REP,
segmentInformation     SegmentInformation-SystemInfoUpdate
}

```

```
SegmentInformation-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
ProtocolIE-Container{{ SegmentInformation-SystemInfoUpdateItemIE }}
```

```

SegmentInformation-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
  { ID id- SegmentInformation-SystemInfoUpdateItem      CRITICALITY ignore      TYPE
    SegmentInformation-SystemInfoUpdateItem      PRESENCE      optional
  },
  ...
}

SegmentInformation-SystemInfoUpdateItem ::= SEQUENCE {
  segmentType      SegmentType,
  iB-SG-REP      IB-SG-REP,
  iB-SG-POS        IB-SG-POS,
  iB-SG            IB-SG      OPTIONAL
}

--
-- Abbreviated
--

```


CHANGE REQUEST		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>	
25.433	CR	076r1	Current Version: 3.0.0
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>	
For submission to: RAN#7	for approval	<input checked="" type="checkbox"/>	strategic <input type="checkbox"/>
<small>list expected approval meeting # here ↑</small>	for information	<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: RAN-WG3 **Date:** 28 Feb 2000

Subject: Beginning of DL transmission in one RL

Work item: _____

Category:	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"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: In the description of the RL Addition procedure it is reported that " The DRNS shall start transmission on the new RL after synchronisation is achieved in the lur user plane as specified in ref. 25.427". The same sentence is reported also for the RL Setup procedure (currently it is not defined when the 'DL transmission on the new RL starts).

Clauses affected: 8.2.17.2, 8.3.1.2

Other specs affected:	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: _____ → List of CRs: _____ → List of CRs: _____ → List of CRs: _____ → List of CRs: _____
------------------------------	---	--

Other comments: _____

8.2.17.2 Successful operation

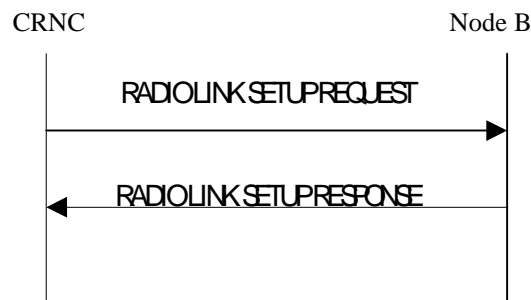


Figure 1: RL Setup procedure: Successful case

The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to Node B.

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

[FDD – The RL Setup procedure can be used to setup one or more radio links. The procedure shall include the establishment of one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for setup of one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs. The Radio Link Setup Request message shall include the required TFS and TFCS for the DCH, DSCH and USCH channels.]

[FDD] The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE indicates, "may be combined with already existing RLs", then Node B shall decide for either of the alternatives. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall

- Treat all DCHs with the same value of this IE as a set of co-ordinated DCHs and
- Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

[FDD] If the *Propagation Delay* IE is present, the Node B may use this information to speed up the detection of L1 synchronization.

The included *RLC Mode* IE may be used by the Node B to optimise the power control.

[FDD] In FDD mode, the *UL Eb/No* IE included in the message shall be used by the Node B as initial UL Eb/No target for the UL power control.

The Node B shall start the DL transmission using the initial DL power specified in the message. The DL power can then vary accordingly to the fast power control, but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.

If the RLs are successfully setup, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

[FDD] The Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.

[TDD – The NodeB shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

The NodeB shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DSCH of this RL.

[TDD – The NodeB shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be specify for only one of the coordinated DCHs.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in 25.427.

8.3.1.2 Successful operation

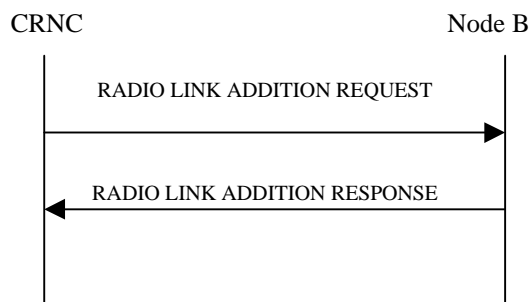


Figure: 2 RL Addition procedure: Successful case

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B.

Upon reception, the Node B shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

[FDD The *Diversity Control Field* IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not.]. [TDD - The *Diversity Control Field* IE indicates whether the Node B shall reuse the Iub interface Transport Bearers of the old RL for the new RL.] If the *Diversity Control Field* IE indicates, "may be combined with already existing RLs", then Node B shall decide for any of the alternatives. When a new RL is to be combined, the NodeB shall choose which RL(s) to combine it with.

If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL Channelisation Code of the RL when starting transmission. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE.

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and never transmit with a higher power on any DL Channelisation Code of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied.

If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL power* IE, the Node B shall store this value and never transmit with a lower power on any DL Channelisation Code of the RL. If no *Minimum DL power* IE is included, any Minimum DL power stored for already existing RLs for this UE shall be applied.

[FDD] If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE the Node B may activate SSDT for the concerned new RL, with the indicated cell identity used for that RL.

If all requested RLs are successfully added, the Node B shall respond with a RADIO LINK ADDITION RESPONSE message.

[FDD] In the case of combining an RL with existing RL(s) the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

[FDD] In the case of not combining an RL with existing RL(s), the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the Node B shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

[TDD - In the case of not reusing the transport bearers of the old RL for the new RL, the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the "Diversity Indication" that no transport bearer reuse is done. In this case the Node B shall include both the Transport Layer Address and the Binding ID for the transport bearer to be established for each DCH, DSCH and USCH of the RL in the RADIO LINK ADDITION RESPONSE message.]

In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the co-ordinated DCHs.

[FDD] Irrespective of SSDT activation, the Node B shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSDT on this RL. Only if the RADIO LINK ADDITION

REQUEST message requested SSDT activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSDT capability is supported for this RL, SSDT is activated in the Node B.

~~FDD~~ After sending of the RADIO LINK ADDITION RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the ~~sub-DL~~ user plane as specified in 25.427.

3GPP-RAN-WG3 Meeting #10
Sophia Antipolis, 28 February – 3 March 2000

Document **R3-000864**

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.433 CR 062r2

Current Version: **3.0.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑
↑ CR number as allocated by MCC support team

For submission to: TSG RAN#7
list expected approval meeting # here ↑

For approval for information: **X**

strategic: (for SMG use only)
non-strategic:

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: RAN-WG3 **Date:** 28th February 2000

Subject: Uplink and downlink UARFCN (NBAP)

Work item:

Category:	F Correction X	Release:	Phase 2
<small>(only one category Shall be marked With an X)</small>	A Corresponds to a correction in an earlier release 		Release 96
	B Addition of feature 		Release 97
	C Functional modification of feature 		Release 98
	D Editorial modification 		Release 99 X
			Release 00

Reason for change: The modification is proposed to separate UARFCN to UL and DL for FDD case, as defined in TS25.104. Also, the previous value range of UARFCN was based on version 3.0.0 of TS25.105. The value range of UARFCN was modified to be consistent with version 3.1.0 of TS25.104 and TS25.105. For Clarification, Nu, Nd, and Nt have been added to the semantic description columns in the UARFCN rows in tabular tables.

Clauses affected: 2, 9.1.23, 9.2.1.60,9,3,3

Other specs Affected:	Other 3G core specifications Other GSM core specifications MS test specifications BSS test specifications O&M specifications 	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	
------------------------------	---	--	--

Other comments:



<----- double-click here for help and instructions on how to create a CR.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

For a specific reference, subsequent revisions do not apply.

For a non-specific reference, the latest version applies.

- [1] 3G TS 25.401: "UTRAN Overall Description".
- [2] 3G TS 25.426: "UTRAN I_{ur} and I_{ub} Interface Data Transport & Transport Signalling for DCH Data Streams".
- [3] CCITT Recommendation X.731 (01/92): "Information Technology – Open Systems Interconnection – Systems Management: State Management function".
- [4] 3G TS 25.215: "Physical layer – Measurements (FDD)".
- [5] 3G TS 25.225: "Physical layer – Measurements (TDD)".
- [6] 3G TS 25.430: "UTRAN Iub General Aspect and Principle".
- [7] 3G TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [8] 3G TS 25.212: "Multiplexing and channel coding (FDD)".
- [9] 3G TS 25.213: "Spreading and modulation (FDD)".
- [10] 3G TS 25.214: "Physical layer procedures (FDD)".
- [11] X.691, (12/94) "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [12] X.680, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [13] X.681, (12/94) Information Technology - Abstract Syntax Notation One (ASN.1): Information object specification
- [14] 3G TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- [15] 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".

9.1.23 CELL SETUP REQUEST

9.1.23.1 FDD Message

Information Element	Presence	Range	IE type and Reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Local Cell Id	M			
C-Id	M			
Configuration Generation Id	M			
T Cell	M			
UARFCN	M			Corresponds to Nu [TS25.104] Indicates UL/DL Frequency
<u>UARFCN</u>	<u>M</u>			Corresponds to Nd [TS25.104]
Maximum transmission power	M			
Primary scrambling code	M			
Primary SCH Information		1		
Common Physical Channel ID	M			
Primary SCH Power	M		DL Power	
TSTD Indicator	M			
Secondary SCH Information		1		
Common Physical Channel ID	M			
Secondary SCH power	M		DL Power	
TSTD Indicator	M			
Primary CPICH Information		1		
Common Physical Channel ID	M			
P-CPICH power	M			
Transmit Diversity Indicator	M			
Secondary CPICH Information		0..1		
Common Physical Channel ID	M			
DL Scrambling code	M			
FDD DL Channelisation Code Number	M			
S-CPICH Power	M		DL Power	
Transmit Diversity Indicator	M			
Primary CCPCH Information		1		
Common Physical Channel ID	M			
BCH Information		1		
Common Transport Channel ID	M			
BCH Power	M		DL Power	
STTD Indicator	M			

9.1.23.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Local Cell Id	M			
C-Id	M			
Configuration Generation Id	M			
UARFCN	M			Corresponds to Nt [TS25.105]
Cell Parameter ID	M			

Maximum Transmission Power	O			
Transmission Diversity Applied	M			On DCHs
Sync Case	M			
PSCH Information		1		
Common physical channel ID	M			
CHOICE Sync Case				
Case 1				The same TS is used for PCCPCH
Time Slot	M			
Case 2 and Case 3				In Case 2 the same TS is used for PCCPCH
PSCH Time Slot	M			
PSCH Power	M			DL Power
TSTD Indicator	M			
PCCPCH Information		1		
Common physical channel ID	M			
CHOICE Sync Case				
Case 3				
Time Slot	M			
TDD Physical Channel Offset	M			
Repetition Period	M			
Repetition Length	M			
PCCPCH Power	M			
STTD Indicator	M			
Time Slot Configuration		1 .. 15		
Time Slot	M			
Time Slot Status	M			
Time Slot Direction	M			

Condition	Explanation
Case 3	This IE is only present if the PSCH&PCCPCH Allocation is equal to 3

9.2.1.60 UARFCN

Designate the central frequency of the channel number.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER (0..16383, ...)(0..698, ...)	corresponds to <u>0.0Hz..</u> <u>3276.6MHz</u> <u>4895.2MHz..2024.8MHz</u> (25.1044, section 5.4 and 25.105)

[Editor's Note: in RRC they have additional attributes such as the "raster" included in the IE]

9.3.3 NBAP PDU Content Definitions

--- Omitted ---

```
-- *****
--
-- IE parameter types from other modules.
--
-- *****
```

--- Partly Omitted ---

```
id-TimeSlotConfigurationItem,
id-TimeSlotConfigurationList,
id-TransmissionGapDistance,
id-TransmissionGapPeriod,
id-TransmitGapLength,
id-TransmitGapPositionMode,
id-UARFCN_Nu,
id-UARFCN_Nd,
id-UARFCN_Nt,
id-C-ID,
id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem,
id-UL-CCTrCH-Information-RL-ReconfReqTDDItem,
id-UL-CCTrCH-Information-RL-SetupReqTDDItem,
id-UL-CCTrCH-InformationItemIE,
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
```

--- Partly Omitted ---

```
-- *****
--
-- CELL SETUP REQUEST FDD
--
-- *****
```

```
CellSetupRequestFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{CellSetupRequestFDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}}
OPTIONAL,
    ...
}

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-LocalCell-ID          CRITICALITY ignore  TYPE LocalCell-ID
    PRESENCE mandatory }|
    { ID id-C-ID                  CRITICALITY ignore  TYPE C-ID
    PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY ignore  TYPE ConfigurationGenerationID
    PRESENCE mandatory }|
    { ID id-T-Cell                 CRITICALITY ignore  TYPE T-Cell
    PRESENCE mandatory }|
    { ID id-UARFCN_Nu              CRITICALITY ignore  TYPE UARFCN
    PRESENCE mandatory }|
    { ID id-UARFCN_Nd              CRITICALITY ignore  TYPE UARFCN
    PRESENCE mandatory }|
    { ID id-MaximumTransmissionPower CRITICALITY ignore  TYPE MaximumTransmissionPower
    PRESENCE mandatory }|
    { ID id-PrimaryScramblingCode   CRITICALITY ignore  TYPE PrimaryScramblingCode
    PRESENCE mandatory }|
    { ID id-PrimarySCH-Information-Cellsetup-Req CRITICALITY ignore  TYPE PrimarySCH-
    Information-Cellsetup-Req PRESENCE mandatory }|
    { ID id-SecondarySCH-Information-Cellsetup-Req CRITICALITY ignore  TYPE SecondarySCH-
    Information-Cellsetup-Req PRESENCE mandatory }|
    { ID id-PrimaryCPICH-Information-Cellsetup-Req CRITICALITY ignore  TYPE PrimaryCPICH-
    Information-Cellsetup-Req PRESENCE mandatory }|
    { ID id-SecondaryCPICH-Information-Cellsetup-Req CRITICALITY ignore
    TYPE SecondaryCPICH-Information-Cellsetup-Req PRESENCE optional
    }|
    { ID id-PrimaryCCPCH-Information-Cellsetup-Req CRITICALITY ignore  TYPE PrimaryCCPCH-
    Information-Cellsetup-Req PRESENCE mandatory },
    ...
}

CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```

PrimarySCH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    primarySCH-Power           DL-Power,
    tSTD-Indicator             TSTD-Indicator
}

SecondarySCH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    secondarySCH-Power         DL-Power,
    transmitDiversityIndication TransmitDiversityIndication
}

PrimaryCPICH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    primaryCPICH-Power         DL-Power,
    sTTD-Indicator             STTD-Indicator
}

SecondaryCPICH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    dl-ScramblingCode         DL-ScramblingCode,
    secondaryCPICH-Power       DL-Power,
    transmitDiversityIndication TransmitDiversityIndication
}

PrimaryCCPCH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    bCH-information-Cellsetup-Req BCH-Information-PrimCCPCH-Cellsetup-Req,
    sTTD-Indicator             STTD-Indicator
}

BCH-Information-PrimCCPCH-Cellsetup-Req ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    bCH-Power                   DL-Power
}

-- *****
--
-- CELL SETUP REQUEST TDD
--
-- *****

CellSetupRequestTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{CellSetupRequestTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{CellSetupRequestTDD-Extensions}}
OPTIONAL,
    ...
}

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-LocalCell-ID          CRITICALITY ignore  TYPE LocalCell-ID
      PRESENCE mandatory }|
    { ID id-C-ID                  CRITICALITY ignore  TYPE C-ID
      PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY ignore  TYPE ConfigurationGenerationID
      PRESENCE mandatory }|
    { ID id-UARFCN_Nt             CRITICALITY ignore  TYPE UARFCN
      PRESENCE mandatory }|
    { ID id-Cell-Parameter-ID     CRITICALITY ignore  TYPE Cell-Parameter-ID
      PRESENCE mandatory }|
    { ID id-MaximumTransmissionPower CRITICALITY ignore  TYPE MaximumTransmissionPower
      PRESENCE optional }|
    { ID id-TransmissionDiversityApplied CRITICALITY ignore  TYPE
      TransmissionDiversityApplied PRESENCE mandatory }|
    { ID id-SyncCase              CRITICALITY ignore  TYPE TransmissionDiversityApplied
      PRESENCE mandatory }|
    { ID id-PSCH-Information-CellsetupReqTDD CRITICALITY ignore  TYPE PSCH-Information-
      CellsetupReqTDD PRESENCE mandatory }|
    { ID id-PCCPCH-Information-CellsetupReqTDD CRITICALITY ignore  TYPE PCCPCH-Information-
      CellsetupReqTDD PRESENCE mandatory }|
    { ID id-TimeSlotConfigurationList-CellsetupReqTDD CRITICALITY ignore  TYPE
      TimeSlotConfigurationList-CellsetupReqTDD
      PRESENCE mandatory
    },
    ...
}

CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PSCH-Information-CellsetupReqTDD ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    syncCaseIndicator          SyncCaseIndicator-CellsetupReqTDD,

```

```

    pSCH-Power          DL-Power,
    tSTD-Indicator      TSTD-Indicator
}

SyncCaseIndicator-CellsetupReqTDD ::= ENUMERATED {
    case1                Case1-CellsetupReqTDD,
    case2andCase3        Case2andCase3-CellsetupReqTDD
}

Case1-CellsetupReqTDD ::= SEQUENCE {
    timeSlot             TimeSlot
}

Case2andCase3-CellsetupReqTDD ::= SEQUENCE {
    PSCH-TimeSlot        PSCH-TimeSlot
}

PCCPCH-Information-CellsetupReqTDD ::= SEQUENCE {
    syncCaseIndicator    SyncCaseIndicator-CellsetupReqTDD2,
    repetitionPeriod     RepetitionPeriod,
    repetitionLength     RepetitionLength,
    pCCPCH-Power         DL-Power,
    tSTD-Indicator       TSTD-Indicator
}

SyncCaseIndicator-CellsetupReqTDD2 ::= ENUMERATED {
    case3                Case3-CellsetupReqTDD
}

Case3-CellsetupReqTDD ::= SEQUENCE {
    timeSlot             TimeSlot
}

TimeSlotConfigurationList-CellsetupReqTDD ::= SEQUENCE (SIZE (1..15)) OF
    ProtocolIE-Container{{TimeSlotConfigurationList-CellsetupReqTDD ItemIE }}

TimeSlotConfigurationList-CellsetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-TimeSlotConfigurationList-CellsetupReqTDDItem          CRITICALITY ignore
      TYPE                 TimeSlotConfigurationList-CellsetupReqTDDItem          PRESENCE
    mandatory
  },
  ...
}

TimeSlotConfigurationList-CellsetupReqTDDItem ::= SEQUENCE {
    timeSlot             TimeSlot,
    timeSlotStatus       TimeSlotStatus,
    timeSlotDirection    TimeSlotDirection
}

```

9.3.7 Constant Definitions for NBAP

--- Omitted ---

```

-- *****
--
-- IEs
--
-- *****

```

--- Partly Omitted ---

```

id-TDDChipOffset          INTEGER ::= 192
id-TimeSlotConfigurationItem    INTEGER ::= 193
id-TimeSlotConfigurationList  INTEGER ::= 194
id-TransmissionGapDistance    INTEGER ::= 195
id-TransmissionGapPeriod      INTEGER ::= 196
id-TransmitGapLength          INTEGER ::= 197
id-TransmitGapPositionMode     INTEGER ::= 198
id-UARFCN_Nt                 INTEGER ::= 199
id-UC-ID                     INTEGER ::= 200

```

```

id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem          INTEGER ::= 201
id-UL-CCTrCH-Information-RL-ReconfReqTDDItem          INTEGER ::= 202
id-UL-CCTrCH-Information-RL-SetupReqTDDItem          INTEGER ::= 203
id-UL-CCTrCH-InformationItemIE                        INTEGER ::= 204
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD        INTEGER ::= 205
id-UL-CCTrCH-InformationList-RL-ReconfReqTDD         INTEGER ::= 206
id-UL-CCTrCH-InformationList-RL-SetupReqTDD          INTEGER ::= 207
id-UL-CCTrCHInformation                               INTEGER ::= 208
id-UL-CCTrCHInformationList                           INTEGER ::= 209
id-UL-DPCH-Information-RL-ReconfPrepFDD              INTEGER ::= 210
id-UL-DPCH-Information-RL-ReconfPrepTDDItem          INTEGER ::= 211
id-UL-DPCH-Information-RL-SetupReqTDDItem            INTEGER ::= 212
id-UL-DPCH-InformationItem-RL-ReconfReqFDD           INTEGER ::= 213
id-UL-DPCH-InformationItem-RL-SetupReqFDD            INTEGER ::= 214
id-UL-DPCH-InformationItemIE                          INTEGER ::= 215
id-USCH-Information-ResourceStatIndItem               INTEGER ::= 216
id-USCH-InformationItem                               INTEGER ::= 217
id-USCH-ListItem-CTCHsetup-Req-TDD                   INTEGER ::= 218
id-Unsuccessful-RL-InformationResponse                 INTEGER ::= 219
id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem INTEGER ::= 220
id-Unsuccessful-RL-InformationResponseItem             INTEGER ::= 221
id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD INTEGER ::= 222
id-Unsuccessful-RL-InformationResponseList             INTEGER ::= 223
id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD INTEGER ::= 224
id-UARFCN_Nu                                          INTEGER ::= 225
id-UARFCN_Nd                                          INTEGER ::= 226

```

END

3GPP-RAN-WG3 Meeting #11
Sophia Antipolis, France, 28 February – 3
March 2000

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.433 CR 065r1

Current Version: **3.0.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#7**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects:
(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source: RAN-WG3

Date: 28th Feb 2000

Subject: Modification of System Information related IEs

Work item:

Category:
(only one category
Shall be marked
With an X)

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release: Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

The value range of BCCH modification time was modified so that it will be an even number.

Clauses affected: 9.2.1.3, 9.3.4

Other specs Affected:

Other 3G core specifications → List of CRs:
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments:



<----- double-click here for help and instructions on how to create a CR.

9.2.1.3 BCCH Modification Time

Indicates the time after which the new system information shall be applied on BCCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
BCCH Modification Time			Integer (0, 2, 4, ..., <u>40944095</u>)	All even SFN values are allowed The tabular description is a direct copy from TS 25.331 CR 078

9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

```

```

-----
-- B
-----

```

```

| BCCH-ModificationTime ::= INTEGER (0| 2| 4| .. | 40944095)

```

CHANGE REQUEST		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>
25.433	CR 043r3	Current Version: 3.0.0
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>	<small>↑ CR number as allocated by MCC support team</small>	
For submission to: TSG-RAN 7 <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: RAN WG3 **Date:** 2000-03-02

Subject: Capacity Modelling of Node B resources

Work item:

Category:	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input checked="" 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"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: In the 6th TSG-RAN meeting, WG3 was tasked to study a simple solution before March. Release 2000 concerning the capacity modeling of Node B resources.

Clauses affected:

- 8.2.7 Audit
- 8.2.15.1 General
- 9.1.16 AUDIT RESPONSE
- 9.1.31 RESOURCE STATUS INDICATION
- 9.2.2.52 Capacity Credit
- 9.2.2.53 Credit Consumption Laws
- 9.3.3 NBAP PDU Content Definitions
- 9.3.4 NBAP Information Elements
- 9.3.7 Constant Definitions for NBAP

Other specs affected:	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:
------------------------------	---	--

Other comments:



<----- double-click here for help and instructions on how to create a CR.

8.2.7 Audit

8.2.7.1 General

This procedure is executed by the CRNC to perform an audit of the configuration and status of the logical resources in the Node B. Additionally, the audit may cause the CRNC and Node B to re-sync to the logical resources known by the CRNC and to the status information from the Node B.

8.2.7.2 Successful Operation

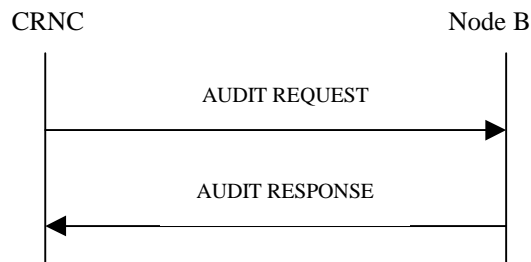


Figure 10: Audit procedure, Successful case

The procedure is initiated with an AUDIT REQUEST message sent from the CRNC to the Node B. The configuration returned by the Node B in the AUDIT RESPONSE shall be the configuration existing upon reception of the AUDIT REQUEST. Upon reception by the Node B, with each pair of *C-ID IE Configuration Generation ID IE* that is present in the message, the Node B compares the stored Configuration Generation ID for the corresponding cell.

For each cell where the *Configuration Generation ID IE* value does not match the stored Configuration Generation ID value, the Node B shall not take any action.

For each cell where the *Configuration Generation ID IE* value matches the stored Configuration Generation ID value, the Node B shall include the *Cell Information IE* group for that cell in the AUDIT RESPONSE message.

The following condition applies to the Primary SCH *Information IE* group, Secondary SCH *Information IE* group, Primary CCPCH *Information IE* group, Secondary CCPCH *Information IE* group, Primary CPICH *Information IE* group, Secondary CPICH *Information IE* group, *BCH Information IE* group, *PCH Information IE* group, *PICH Information IE* group, *FACH Information IE* group, *RACH Information IE* group, and *AICH Information IE* group. The Node B shall include the IE group within the *Cell Information IE* group, if that resource is present in the Node B for that cell.

The Node B shall include in the AUDIT RESPONSE message a *Communication Control Port Information IE* group for each communication control port present in the Node B

The Node B shall include in the AUDIT RESPONSE message a *Local Cell Information IE* group for each local cell present in the Node B. ~~The Node B shall include the *Number Of Channel Elements IE* if the value is known by the Node B.~~ The Node B shall include the *Maximum DL Power Capability IE* if the value is known by the Node B.

The Node B shall include the Node B internal resource capability and consumption laws with the "NodeB Information IE group". If the "UL Capacity Credit" IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between Uplink and Downlink.

The Node B shall include for each local cell present in the node B the Node B internal resource capability and consumption laws within the "Local Cell Information IE group". If the "UL Capacity Credit" IE is not present, then the internal resource capabilities of the local cell are modelled as shared resources between Uplink and Downlink.

For each cell existing in the Node B but not indicated in the AUDIT REQUEST message, the associated cell configuration information shall be removed from the Node B including any related common physical channels and common transport channels. For each cell not existing in the Node B but indicated in the AUDIT REQUEST message, the Node B shall not take any action.

Upon reception by the CRNC of the AUDIT RESPONSE message, the CRNC compares the received list of C-ID with the expected list of C-IDs.

For each missing cell, a configuration error has occurred and recovery actions should be taken by the CRNC.

8.2.15 Resource Status Indication

8.2.15.1 General

This procedure is used in ~~six different~~the following cases:

1. When a Local Cell becomes Existing at the Node B, it shall be made available to the RNC
2. When a Local Cell is to be deleted in Node B, i.e. become Not Existing, the Local Cell shall be withdrawn from the CRNC
3. When the capabilities of the Local Cell changes at the Node B
4. When a cell has changed its capability and/or its resource operational state at the Node B
5. When common physical channels and/or common transport channels have changed their capabilities at a Node B
6. When a communication control port changed its resource operational state at the Node B
7. When a Node B has changed its resource capability at the Node B and/or the local cells

Each of the above cases shall trigger a Resource Indication procedure and the RESOURCE STATUS INDICATION message shall contain the logical resources affected for that case and the cause value when applicable.

8.2.15.2 Successful Operation

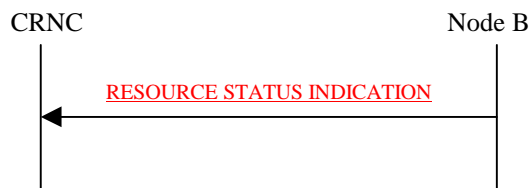


Figure 1: Resource Status Indication

The procedure is initiated with a RESOURCE STATUS INDICATION message sent from the Node B to CRNC.

When a Local Cell becomes Existing at the Node B, the Node B shall make it available to the CRNC by sending a RESOURCE STATUS INDICATION message with the Local Cell Id IE and the Add/Delete Indicator IE set equal to 'Add'.

When a Local Cell is to be deleted in Node B, i.e. become Not Existing, the Node B shall withdraw the Local Cell from the CRNC by sending a RESOURCE STATUS INDICATION message with the Local Cell Id IE and the Add/Delete Indicator IE set equal to 'Delete'. The Node B shall not withdraw a previously configured cell at the Node B that the CRNC had configured using the Cell Setup procedure, until the CRNC has deleted that cell at the Node B using the Cell Delete procedure.

When the capabilities of a Local Cell changes at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the Local Cell Id. The Add/Delete Indicator IE shall not be included in the message. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When the capabilities and/or resource operational state of a cell changes at the Node B, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message with the C-ID IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When the capabilities and/or resource operational state of common physical channels and/or common transport channels have changed, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message with the logical resource. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When the resource operational state of a communication control port has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message with the Communication Control Port ID IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When the resource capabilities of a Node B change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the NodeB Information IE group. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value. If the RESOURCE STATUS INDICATION message contains both the "DL or Global Capacity Credit" and the "UL Capacity Credit" then the internal resource capabilities of the Node B are modelled independently in the Uplink and Downlink direction. If the "UL Capacity Credit" IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between Uplink and Downlink.

9.1.16 AUDIT RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Node B Information		<u>1</u>		
<u>DL or Global Capacity Credit</u>	<u>M</u>			
<u>UL Capacity Credit</u>	<u>O</u>			
<u>Common Channels Capacity Consumption Law</u>	<u>M</u>			
<u>Dedicated Channels Capacity Consumption Law</u>	<u>M</u>			
Cell Information		0.. <maxUCIDinNodeB>		
C-ID	M			
Resource Operational State	M			
Availability Status	M			
Maximum DL Power Capability	FFS			
Minimum Spreading Factor	FFS			
Primary SCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary SCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Primary CPICH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary CPICH Information		0..<maxSCPICHCell>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Primary CCPCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
BCH Information		0..1		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			

Secondary CCPCH Information		<i>0..<maxSCCP CHCell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PCH Information		<i>0..<maxPCHC ell ></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PICH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
FACH Information		<i>0..<maxFACH Cell></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PRACH Information		<i>0..<maxPRAC HCell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
RACH Information		<i>0..<maxRACH Cell></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
AICH Information		<i>0..<maxRACH Cell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
SCH Information		<i>0..1</i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PSCH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			

Availability Status	M			
Communication Control Port Information		0.. <maxCCPinNodeB>		
Communication Control Port ID	M			
Resource Operational State	M			
Availability Status	M			
Local Cell Information		0.. <maxLocalCellinNodeB>		
Local Cell ID	M			
<u>Number of Channel Elements</u>	<u>Q</u>			
<u>DL or Global Capacity Credit</u>	<u>M</u>			
<u>UL Capacity Credit</u>	<u>Q</u>			
<u>Common Channels Capacity Consumption Law</u>	<u>M</u>			
<u>Dedicated Channels Capacity Consumption Law</u>	<u>M</u>			
Maximum DL Power Capability	O			
Criticality diagnostics	O			

Range bound	Explanation
maxCellinNodeB	Maximum number of Cell that can be configured in Node B
maxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
maxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
maxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
maxFACHCell	Maximum number of FACHes that can be defined in a Cell
maxRACHCell	Maximum number of RACHes that can be defined in a Cell
maxPCHCell	Maximum number of PCHes that can be defined in a Cell
maxPICHCell	Maximum number of PICHes that can be defined in a Cell

9.1.31 RESOURCE STATUS INDICATION

Information Element	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Indication Type	M			
CHOICE Indication Type				
"No Failure"				
Node B Information		<u>1</u>		
DL or Global Capacity Credit	M			
UL Capacity Credit	O			
Common Channels Capacity Consumption Law	M			
Dedicated Channels Capacity Consumption Law	M			
Local Cell Information		1.. <maxLocalCellinNo deB >		
Local Cell ID	M			
Add/Delete Indicator	M			
Number of Channel Elements	M			
DL or Global Capacity Credit	MC-add			
UL Capacity Credit	O			
Common Channels Capacity Consumption Law	C-add			
Dedicated Channels Capacity Consumption Law	C-add			
Maximum DL Power Capability	MC-add			
"Service Impacting"				
Node B Information		<u>0..1</u>		
DL or Global Capacity Credit	O			
UL Capacity Credit	O			
Local Cell Information		0.. <maxLocalCell inNodeB>		
Local Cell ID	M			
Number of Channel Elements	Ø			
DL or Global Capacity Credit	O			
UL Capacity Credit	O			
Maximum DL Power Capability	O			
Communication Control Port Information		0.. <maxCCPinNo deB>		
Communication Control	M			

Port ID				
Resource Operational State	M			
Availability Status	M			
Cell Information		0.. <maxCellinNo deB>		
C-ID	M			
Resource Operational State	M			
Availability Status	M			
Maximum DL Power Capability	FFS			
Minimum Spreading Factor	FFS			
Primary SCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary SCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Primary CPICH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary CPICH Information		0..<maxSCPIC HCell>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Primary CCPCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
BCH Information		0..1		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary CCPCH Information		0..<maxSCCP CHCell>		
Common Physical Channel ID	M			

Channel ID				
Resource Operational State	M			
Availability Status	M			
PCH Information		<i>0..<maxPCHCell></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PICH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
FACH Information		<i>0..<maxFACHCell></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PRACH Information		<i>0..<maxPRACHCell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
RACH Information		<i>0..<maxPRACHCell></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
AICH Information		<i>0..<maxPRACHCell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
SCH Information		<i>0..1</i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PSCH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			

Availability Status	M			
Cause	O			

Condition	Explanation
<u>C-add</u>	<u>This IE is present only if "Add/Delete Indicator" equals to add</u>

Range bound	Explanation
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICH that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCH that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHes that can be defined in a Cell
<i>maxPCHCell</i>	Maximum number of PCHes that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHes and AICHes that can be defined in a Cell
<i>maxCCPinNodeB</i>	Maximum number of communication control ports that can exist in the Node B
<u><i>maxConsumptionLaws</i></u>	<u>Maximum number of credit consumption laws.</u>

9.2.2.52 DL or Global Capacity Credit

The capacity credit indicates to the CRNC the Downlink or global capacity of a node B or of a local cell.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>DL or Global Capacity Credit</u>			INTEGER (0..65535)	

9.2.2.53 UL Capacity Credit

The capacity credit indicates to the CRNC the Uplink capacity of a node B or of a local cell.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>UL Capacity Credit</u>			INTEGER (0..65535)	

9.2.2.54 Common Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Common Transport Channel Setup

In case of usage of the Common Transport Channel Deletion, the consumption cost given in the consumption law must be credited to the Capacity Credit.

If the modelling of the internal resource capability of the B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Common Channels Capacity Consumption Law</u>				
<u>SF allocation law</u>		<maxNumberOfSF>		For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.
<u>DL cost</u>	M		INTEGER (0..65535)	
<u>UL cost</u>	M		INTEGER (0..65535)	

9.2.2.55 Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

This capacity consumption law indicates the consumption law to be used with the following procedures :

- [Radio Link Setup](#)
- [Radio Link Addition](#)
- [Radio Link Reconfiguration \(case of increase of the SF\)](#)

In case of usage of the Radio Link Deletion or of the Radio Link Reconfiguration (case of decrease of the SF) procedure, the consumption cost given in the consumption law shall be credited to the Capacity Credit.

If the modelling of the internal resource capability of the B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Dedicated Channels Capacity Consumption Law</u>				
<u>SF allocation law</u>		<u><maxNumberOfSF></u>		<u>For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.</u>
<u>DL cost</u>	<u>M</u>		<u>INTEGER (0..65535)</u>	
<u>UL cost</u>	<u>M</u>		<u>INTEGER (0..65535)</u>	

9.3.3 NBAP PDU Content Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    AICH-InformationList,
    AICH-Parameters,
    AICH-Power,
    AICH-TransmissionTiming,
    AddOrDeleteIndicator,
    AvailabilityStatus,
    BindingID,
    BlockingPriorityIndicator,
    BurstType,
    CCTrCH-ID,
    CFN,
    CN-CSDomainIdentifier,
    CN-PSDomainIdentifier,
    CRNC-CommunicationContextID,
    Cause,
    CellParameter,
    Cell-Parameter,
    ChipOffset,
    CommonMeasurementType,
    CommonPhysicalChannelID,
    CommonPhysicalChannelType,
    CommonTransportChannelID,
    CommonTransportChannelType,
    CommunicationControlPortID,
    CommunicationControlPortInformationList,
    CompressesModeMethod,
    ConfigurationGenerationID,
    DL-or-Global-CapacityCredit,
    UL-CapacityCredit,
    CommonChannelsCapacityConsumptionLaw,
    DedicatedChannelsCapacityConsumptionLaw,
    DCH-CombinationIndication,
    DCH-Delete-RL-ReconfReqTDDItem,
    DCH-ID,
    DCH-InformationResponse-RL-setupResFDD,
    DCH-Modify-RL-ReconfPrepTDDItem,
    DL-CCTrCH-ID,
    DL-CodeInformation,
    DL-DPCH-InformationItem-RL-ReconfReqFDD,
    DL-DPCH-SlotFormat,
    DL-FrameType,
    DL-Power,
    DL-ReferencePower,
    DL-ReferencePowerInformationItem,
    DL-ScramblingCode,
    DPCH-ID,
    DPCH-Offset,
    DSCH-ID,
    DSCH-InformationResponse-RL-setupResFDD,
    DSCH-ModifyList-RL-ReconfResp,
    DSCH-SetupList-RL-ReconfResp,
    DSCH-TransportFormatSet,
    DTX-InsertionPoint,
    DTX-InsertionPosition,
    D-FieldLength,
    DedicatedMeasurementType,
    DedicatedMeasurementValue,

```

DeltaTPC,
DiversityControlField,

id-FACH-ParametersList-CTCHreconf-Req-FDD,
 id-FACH-ParametersList-CTCHreconf-Req-TTD,
 id-FACH-ParametersListItem-CTCHreconf-Req-FDD,
 id-FACH-ParametersListItem-CTCHreconf-Req-TTD,
 id-FACH-ParametersListItem-CTCHsetup-Req-FDD,
 id-FACH-ParametersListItem-CTCHsetup-Response,
 id-GapStartingSlotNumber,
 id-IndicationType,
 id-Local-Cell-Information-ResourceStatIndItem,
 id-Local-CellInformation-ResourceStatIndItem,
 id-LocalCell-ID,
 id-LocalCell-InformationItem,
 id-LocalCellInformationList,
 id-MIB-SegmentInformationItem,
 id-MIB-SegmentInformationList,
 id-MaximumTransmissionPower,
 id-MeasuredCellInfo,
 id-MeasurementCharacteristics,
 id-MeasurementID,
 id-MeasurementType,
 id-NeighbouringFDD-Cell-InformationItem,
 id-NeighbouringTDD-Cell-InformationItem,
 id-NodeB-CommunicationContextID,
id-NodeB-Information-ResourceStatIndItem,
id-NodeBInformation-ResourceStatIndItem,
id-NodeBInformation-AuditResponseItem,
id-NodeBInformation-AuditResponseItemIE
 id-PCCPCH-Information,
 id-PCH-Information-ResourceStatIndItem,
 id-PCH-InformationItem,
 id-PCH-ListItem,
 id-PCH-Parameters-CTCHreconf-Req-FDD,
 id-PCH-ParametersList,
 id-PCH-ParametersListItem,
 id-PICH-Parameters-CTCHreconf-Req-FDD,
 id-PRACH-ParametersList,
 id-PRACH-ParametersListItem,
 id-PSCH-Information,
 id-PSCHandPCCPCH-Information,
 id-PUSCH-ListItem,
 id-PatternDuration,
 id-PowerControlMode,
 id-PowerResumeMode,
 id-PrimaryCCPCH-Information,
 id-PrimaryCPICH-Information,
 id-PrimarySCH-Information,
 id-PrimaryScramblingCode,
 id-ProcedureScopeType,
 id-RACH-Information-ResourceStatIndItem,
 id-RACH-InformationItem,
 id-RL-ID,
 id-RL-Information,
 id-RL-Information-DMeasureReportItem,
 id-RL-Information-DMeasureRequestItem,
 id-RL-Information-DMeasureResponseItem,
 id-RL-Information-RL-ReconfPrepFDDItem,
 id-RL-Information-RL-SetupReqFDDItem,
 id-RL-InformationItem,
 id-RL-InformationItem-RL-SetupReqTDD,
 id-RL-InformationList,
 id-RL-InformationList-RL-ReconfReqFDD,
 id-RL-InformationList-RL-SetupReqFDD,
 id-RL-InformationResponse-RL-setupResFDDItem,
 id-RL-InformationResponseItem-RL-ReconfResp,
 id-RL-InformationResponseList-RL-ReconfReady,
 id-RL-InformationResponseList-RL-ReconfReadyItem,
 id-RL-InformationResponseList-RL-ReconfResp,
 id-RL-InformationResponseList-RL-setupResFDD,
 id-RL-InformationResponseList-RL-setupResTDD,
 id-RL-ReconfigurationFailure-RL-ReconfFailItem,
 id-RL-ReconfigurationFailureList-RL-ReconfFail,
 id-RL-ResponseInformation,
 id-RL-ResponseInformationItem,
 id-RL-ResponseInformationList,
 id-RL-informationItem,
 id-RL-informationList,
 id-RadioLinkInformation-RL-ReconfPrepFDDItem,
 id-RadioLinkInformation-RL-ReconfPrepTDD,

id-RadioLinkInformation-RL-ReconfReqTDD,
id-RadioLinkInformationList-RL-ReconfPrepFDD,


```

-- *****
--
-- AUDIT RESPONSE
--
-- *****

AuditResponse ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{AuditResponse-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{AuditResponse-Extensions}}
OPTIONAL,
    ...
}

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeBInformation-AuditResponseItemIE CRITICALITY ignore TYPE NodeBInformation-
    AuditResponseItemIE PRESENCE mandatory }|
    { ID id-Cell-InformationList-Audit-Res          CRITICALITY ignore TYPE Cell-InformationList-Audit-
Res          PRESENCE optional }|
    { ID id-CommunicationControlPort-InformationList-Audit-Res          CRITICALITY ignore
TYPE CommunicationControlPort-InformationList-Audit-Res          PRESENCE optional
}|
    { ID id-Cell-InformationList-Audit-Res          CRITICALITY ignore TYPE Cell-InformationList-Audit-Res
PRESENCE optional }|
    { ID id-CriticalityDiagnostic                    CRITICALITY ignore TYPE CriticalityDiagnostic
PRESENCE optional
    },
    ...
}

AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NodeBInformation-AuditResponseItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-NodeBInformation-AuditResponseItem CRITICALITY ignore TYPE NodeBInformation-
    AuditResponseItem PRESENCE mandatory }|
    ...
}

NodeBInformation-AuditResponseItem ::= SEQUENCE {
    dl-or-global-capacityCredit CapacityCredit,
    ul-capacityCredit CapacityCredit OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    ...
}

Cell-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxUCIDinNodeB)) OF
    ProtocolIE-Container {{Cell-InformationItemIE-Audit-Res }}

Cell-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-Audit-Res          CRITICALITY ignore TYPE Cell-InformationItem-Audit-
Res          PRESENCE optional
    },
    ...
}

Cell-InformationItem-Audit-Res ::= SEQUENCE {
    c-ID                C-ID,
    resourceOperationState ResourceOperationState,
    availabilityStatus AvailabilityStatus,
    maximumDLPowerCapability MaximumDLPowerCapability,
    -- to do
    minimumSpreadingFactor MinimumSpreadingFactor,
    -- to do
    primary-SCH-Information P-SCH-Information-Audit-Res OPTIONAL,
    secondary-SCH-Information S-SCH-Information-Audit-Res OPTIONAL,
    primary-CPICH-Information P-CPICH-Information-Audit-Res OPTIONAL,
    secondary-CPICH-Information S-CPICH-Information-Audit-Res OPTIONAL,
    primary-CCPCH-Information P-CCPCH-Information-Audit-Res OPTIONAL,
    BCH-Information BCH-Information-Audit-Res OPTIONAL,
    secondary-CCPCH-Information S-CCPCH-Information-Audit-Res OPTIONAL,
    pCH-InformationList PCH-InformationList-Audit-Res OPTIONAL,
    pICH-Information PICH-Information-Audit-Res OPTIONAL,
    fACH-InformationList FACH-InformationList-Audit-Res OPTIONAL,
    pRACH-InformationList PRACH-InformationList-Audit-Res OPTIONAL,
    rACH-InformationList RACH-InformationList-Audit-Res OPTIONAL,
    aICH-InformationList AICH-InformationList-Audit-Res OPTIONAL,
}

```

```

sCH-InformationList      SCH-InformationList-Audit-Res      OPTIONAL,
pSCH-InformationList    PSCH-InformationList-Audit-Res      OPTIONAL,
communicationControlPortInformation CommunicationControlPortInformation-Audit-Res
OPTIONAL,
local-CellInformation   Local-CellInformation-Audit-Res      OPTIONAL
}

P-SCH-Information-Audit-Res ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  resourceOperationState   ResourceOperationState,
  availabilityStatus        AvailabilityStatus
}

S-SCH-Information-Audit-Res ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationState   ResourceOperationState,
  availabilityStatus        AvailabilityStatus
}

P-CPICH-Information-Audit-Res ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationState   ResourceOperationState,
  availabilityStatus        AvailabilityStatus
}

S-CPICH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF
  ProtocolIE-Container {{S-CPICH-InformationItemIE-Audit-Res }}

S-CPICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-InformationItem-Audit-Res      CRITICALITY ignore TYPE S-CPICH-
InformationItem-Audit-Res PRESENCE mandatory
},
  ...
}

S-CPICH-InformationItem-Audit-Res ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  resourceOperationState   ResourceOperationState,
  availabilityStatus        AvailabilityStatus
}

P-CCPCH-Information-Audit-Res ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationState   ResourceOperationState,
  availabilityStatus        AvailabilityStatus
}

BCH-Information-Audit-Res ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  resourceOperationState   ResourceOperationState,
  availabilityStatus        AvailabilityStatus
}

S-CCPCH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF
  ProtocolIE-Container {{S-CCPCH-InformationItemIE-Audit-Res }}

S-CCPCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-InformationItem-Audit-Res      CRITICALITY ignore TYPE S-CCPCH-
InformationItem-Audit-Res PRESENCE mandatory
},
  ...
}

S-CCPCH-InformationItem-Audit-Res ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationState   ResourceOperationState,
  availabilityStatus        AvailabilityStatus
}

PCH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxPCHCell)) OF
  ProtocolIE-Container {{PCH-InformationItemIE-Audit-Res }}

PCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-InformationItem-Audit-Res          CRITICALITY ignore TYPE PCH-InformationItem-Audit-
Res PRESENCE mandatory
},
  ...
}

```

```

PCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

FACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
    ProtocolIE-Container {{FACH-InformationItemIE-Audit-Res}}

FACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-InformationItem-Audit-Res    CRITICALITY ignore  TYPE FACH-InformationItem-Audit-
Res PRESENCE    mandatory    },
    ...
}

FACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

PRACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF
    ProtocolIE-Container {{PRACH-InformationItemIE-Audit-Res}}

PRACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-Audit-Res    CRITICALITY ignore  TYPE PRACH-InformationItem-
Audit-Res PRESENCE    mandatory    },
    ...
}

PRACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

RACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-InformationItemIE-Audit-Res}}

RACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-Audit-Res    CRITICALITY ignore  TYPE RACH-InformationItem-Audit-
Res PRESENCE    mandatory    },
    ...
}

RACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

AICH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-InformationItemIE-Audit-Res}}

AICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-Audit-Res    CRITICALITY ignore  TYPE RACH-InformationItem-Audit-
Res PRESENCE    mandatory    },
    ...
}

AICH-InformationItem-Audit-Res ::= SEQUENCE {
    CommonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

SCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

RACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}

```

```

CommunicationControlPort-InformationList-Audit-Res ::=SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
  ProtocolIE-Container {{CommunicationControlPort-InformationItemIE }}

CommunicationControlPort-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-CommunicationControlPort-InformationItem-Audit-Res CRITICALITY ignore
    TYPE CommunicationControlPort-InformationItem-Audit-Res PRESENCE mandatory
  },
}

CommunicationControlPort-InformationItem-Audit-Res ::= SEQUENCE {
  communicationControlPortID CommunicationControlPortID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus
}

LocalCell-InformationList-Audit-Res ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
  ProtocolIE-Container {{LocalCell-InformationItemIE-Audit-Res}}

LocalCell-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-LocalCell-InformationItem-Audit-Res CRITICALITY ignore TYPE LocalCell-InformationItem-
    Audit-Res PRESENCE mandatory },
  ...
}

LocalCell-InformationItem-Audit-Res ::= SEQUENCE {
  localCellID LocalCellID,
  numberOfChannelElements NumberOfChannelElements OPTIONAL,
  dl-or-global-capacityCredit CapacityCredit OPTIONAL,
  ul-capacityCredit CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
  maximumDLPowerCapability MaximumDLPowerCapability OPTIONAL,
  ...
}
-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

ResourceStatusIndication ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{ResourceStatusIndication-IES}},
  protocolExtensions ProtocolExtensionContainer {{ResourceStatusIndication-
    Extensions}}
  OPTIONAL,
  ...
}

ResourceStatusIndication-IES NBAP-PROTOCOL-IES ::= {
  { ID id-IndicationType CRITICALITY ignore TYPE IndicationType PRESENCE
    mandatory },
  { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE
    mandatory },
  ...
}

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

IndicationType ::= ENUMERATED {
  no-Failure No-Failure,
  serviceImpacting ServiceImpacting
}

No-Failure ::= SEQUENCE {
  nodeBInformation-ResourceStatInd NodeBInformation-ResourceStatIndItemIE,
  local-CellInformationList-ResourceStatInd Local-
  CellInformationList-ResourceStatInd
}

NodeBInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-NodeBInformation-ResourceStatIndItem CRITICALITY ignore TYPE NodeBInformation-
    ResourceStatIndItem PRESENCE mandatory },
  ...
}

```

```

NodeBInformation-ResourceStatIndItem ::= SEQUENCE {
  dl-or-global-capacityCredit      CapacityCredit,
  ul-capacityCredit                CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
  ...
}

Local-CellInformationList-ResourceStatInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF
  ProtocolIE-Container {{Local-CellInformation-ResourceStatIndItemIE}}

Local-CellInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Local-CellInformation-ResourceStatIndItem CRITICALITY ignore TYPE Local-
  CellInformation-ResourceStatIndItem PRESENCE mandatory },
  ...
}

Local-CellInformation-ResourceStatIndItem ::= SEQUENCE {
  local-CellID                    Local-CellID,
  addOrDeleteIndicator            AddOrDeleteIndicator,
  numberOfChannelElements NumberOfChannelElements,
  dl-or-global-capacityCredit      CapacityCredit OPTIONAL,
  ul-capacityCredit                CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
  maximum-DL-PowerCapability       Maximum-DL-PowerCapability OPTIONAL,
  ...
}

ServiceImpacting ::= SEQUENCE {
  NodeB-Information-ResourceStatInd NodeB-Information-ResourceStatIndItemIE OPTIONAL,
  local-Cell-InformationList-ResourceStatInd Local-Cell-InformationList-
  ResourceStatInd OPTIONAL,
  communicationControlPortInformationList-ResourceStatInd
  CommunicationControlPortInformationList-ResourceStatInd OPTIONAL,
  cell-InformationList-ResourceStatInd Cell-InformationList-
  ResourceStatInd OPTIONAL,
  primary-SCH-Information          P-SCH-Information-Audit-Res OPTIONAL,
  secondary-SCH-Information        S-SCH-Information-Audit-Res OPTIONAL,
  primary-CPICH-Information        P-CPICH-Information-Audit-Res OPTIONAL,
  secondary-CPICH-Information      S-CPICH-Information-Audit-Res OPTIONAL,
  primary-CCPCH-Information        P-CCPCH-Information-Audit-Res OPTIONAL,
  bCH-InformationItem-ResourceStatInd BCH-InformationItem-ResourceStatInd
  OPTIONAL,
  secondary-CCPCH-Information      S-CCPCH-Information-Audit-Res OPTIONAL,
  pCH-InformationList-ResourceStatInd PCH-InformationList-ResourceStatInd
  OPTIONAL,
  pICH-InformationItem-ResourceStatInd PICH-InformationItem-
  ResourceStatInd OPTIONAL,
  fACH-InformationList-ResourceStatInd FACH-InformationList-
  ResourceStatInd OPTIONAL,
  pRACH-InformationList           PRACH-InformationList-Audit-Res OPTIONAL,
  rACH-InformationList-ResourceStatInd RACH-InformationList-
  ResourceStatInd OPTIONAL,
  aICH-InformationList-ResourceStatInd AICH-InformationList-
  ResourceStatInd OPTIONAL,
  sCH-InformationList-ResourceStatInd SCH-InformationList-ResourceStatInd
  OPTIONAL,
  pSCH-InformationList           PSCH-InformationList-Audit-Res OPTIONAL,
}

NodeB-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-Information-ResourceStatIndItem CRITICALITY ignore TYPE NodeB-Information-
  ResourceStatIndItem PRESENCE mandatory },
  ...
}

NodeB-Information-ResourceStatIndItem ::= SEQUENCE {
  dl-or-global-capacityCredit      CapacityCredit,
  ul-capacityCredit                CapacityCredit OPTIONAL
}

Local-Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
  ProtocolIE-Container {{Local-Cell-Information-ResourceStatIndItemIE }}

Local-Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-Local-Cell-Information-ResourceStatIndItem CRITICALITY ignore TYPE Local-Cell-
      Information-ResourceStatIndItem PRESENCE mandatory },
    ...
  }

Local-Cell-Information-ResourceStatIndItem ::= SEQUENCE {
  local-CellID Local-CellID,
  numberOfChannelElements NumberOfChannelElements OPTIONAL,
  capacityCredit CapacityCredit OPTIONAL,
  maximum-DL-PowerCapability Maximum-DL-PowerCapability OPTIONAL
}

CommunicationControlPortInformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
  ProtocolIE-Container {{CommunicationControlPortInformation-ResourceStatIndItemIE }}

CommunicationControlPortInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-CommunicationControlPortInformation-ResourceStatIndItem
    CRITICALITY ignore TYPE CommunicationControlPortInformation-
    ResourceStatIndItem PRESENCE mandatory },
  ...
}

CommunicationControlPortInformation-ResourceStatIndItem ::= SEQUENCE {
  communicationControlPortID CommunicationControlPortID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus
}

Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCellInNodeB)) OF
  ProtocolIE-Container {{Cell-Information-ResourceStatIndItemIE }}

Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-Information-ResourceStatIndItem CRITICALITY ignore TYPE Cell-Information-
    ResourceStatIndItem PRESENCE mandatory},
  ...
}

Cell-Information-ResourceStatIndItem ::= SEQUENCE {
  c-ID C-ID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  maximumDL-PowerCapability MaximumDL-PowerCapability,

```


9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxTFcount,
    maxnoofTFCs,
    maxCTF-1,
    maxRM,
    maxNumberOfSF

FROM NBAP-Constants;

DTX-InsertionPoint ::= INTEGER
DedicatedMeasurementValue ::= INTEGER
DeltaTPC ::= INTEGER

-----
-- A
-----

-- to do
AcknowledgedRA-TriesValue ::= TBD

AddOrDeleteIndicator ::= ENUMERATED {
    add,
    delete
}

AICH-TransmissionTiming ::= ENUMERATED {
    timing0,
    timing1
}

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
}

--to do
AveragingDuration ::= TBD

-----
-- B
-----

BCCH-ModificationTime ::= INTEGER (0 | 2 | 4 | .. | 4095)

BindingID ::= OCTET STRING (SIZE (4))

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.

BurstType ::= ENUMERATED {

```

```

type1,
type2
}

-----
-- C
-----

Cause ::= ENUMERATED {
radioNetworkLayer      RadioNetworkLayerCause,
transportLayer         TransportLayerCause,
protocol               ProtocolCause,
misc                   MiscellaneousCause
...
}

CCTrCH-ID ::= INTEGER (1..15)

CellID-Length ::= ENUMERATED {
short,
medium,
long
}

CFN ::= INTEGER (0..255)

ChipOffset ::= INTEGER (0..38399)

C-ID ::= INTEGER (0..65535)

CodingRate ::= ENUMERATED {
rate1-2,
rate1-3
}

CommonMeasurementObjectType ::= ENUMERATED {
cell,
rach,
...
}

CommonMeasurementType ::= SEQUENCE {
rsi                RSSI-Value,
transmitted-carrier-power    TransmittedCarrierPowerValue,
acknowledged-ra-tries      AcknowledgedRA-TriesValue,
time-slot-iscp           TimeSlotISCP-Value,
...
}

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

CompressedModeMethod ::= ENUMERATED {
puncturing,
sF-2,
gating,
none
}

ConfigurationGenerationID ::= INTEGER (0..255)

CRC-Size ::= ENUMERATED {
size0,
size12,
size16,
size24
}

CapacityCredit ::= INTEGER (0..65535)

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE ((SIZE(maxNumberOfSF)) OF SEQUENCE {
dl-Cost INTEGER (0..65535),
ul-Cost INTEGER (0..65535)
}
)

```

```
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ((SIZE(maxNumberOfSF)) OF SEQUENCE {  
dl-Cost INTEGER (0..65535),  
ul-Cost INTEGER (0..65535)  
})
```

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-commonTransportChannelDeletion  INTEGER ::= 10
id-commonTransportChannelReconfiguration  INTEGER ::= 11
id-commonTransportChannelSetup  INTEGER ::= 12
id-compressedModeControlCancellation  INTEGER ::= 13
id-compressedModeControlCommit  INTEGER ::= 14
id-compressedModeControlPreparation  INTEGER ::= 15
id-dedicatedMeasurementFailure  INTEGER ::= 16
id-dedicatedMeasurementInitiation  INTEGER ::= 17
id-dedicatedMeasurementReport   INTEGER ::= 18
id-dedicatedMeasurementTermination  INTEGER ::= 19
id-dlPowerControl              INTEGER ::= 20
id-neighbourCellMeasurement    INTEGER ::= 21
id-radioLinkAddition          INTEGER ::= 22
id-radioLinkDeletion          INTEGER ::= 23
id-radioLinkFailure           INTEGER ::= 24
id-radioLinkReconfigurationCommit  INTEGER ::= 25
id-radioLinkReconfigurationCancel  INTEGER ::= 26
id-radioLinkRestoration       INTEGER ::= 27
id-radioLinkSetup             INTEGER ::= 28
id-resourceStatusIndication    INTEGER ::= 29
id-synchronisationAdjustment   INTEGER ::= 30
id-synchronisationFailure     INTEGER ::= 31
id-synchronisationRestart     INTEGER ::= 32
id-synchronisedRadioLinkReconfigurationPreparation  INTEGER ::= 33
id-systemInformationUpdate     INTEGER ::= 34
id-unblockResource            INTEGER ::= 35
id-unsynchronisedRadioLinkReconfiguration  INTEGER ::= 36

-- *****
--
-- Extension constants
--
-- *****

maxPrivateExtensions      INTEGER ::= 65535
maxProtocolExtensions     INTEGER ::= 65535
maxProtocolIEs           INTEGER ::= 65535

-- *****
--
-- Lists
--
-- *****

maxSF                     INTEGER ::= 10
maxnoofDLCodes           INTEGER ::= 10
maxnoofRLs                INTEGER ::= 10
maxnoofDPCHs             INTEGER ::= 10

```

```

maxnoofSCCPCHs          INTEGER ::= 10
maxnoofPRACHs           INTEGER ::= 10
maxnoofDCHs             INTEGER ::= 10
maxnoofDSCHs           INTEGER ::= 10
maxnoofFACHs           INTEGER ::= 10
maxnoofCCTrCHs         INTEGER ::= 10
maxnoofPCHs            INTEGER ::= 10
maxnoofPUCSHs          INTEGER ::= 10
maxnoofTFCs            INTEGER ::= 10
maxnoofUSCHs           INTEGER ::= 10
maxUCIDinNodeB         INTEGER ::= 10
maxCellinNodeB         INTEGER ::= 10
maxCCPinNodeB          INTEGER ::= 10
maxCTF-1               INTEGER ::= 10
maxLocalCellinNodeB   INTEGER ::= 10
maxPCHinNodeB          INTEGER ::= 10
maxRACHCell            INTEGER ::= 10
maxnoofFACHCell        INTEGER ::= 10
maxPCHCell             INTEGER ::= 10
maxUSCHCell            INTEGER ::= 10
maxAICHCell            INTEGER ::= 10
maxMIBSEG              INTEGER ::= 10
maxSIBSEG              INTEGER ::= 10
maxnoofFDDNeighbours  INTEGER ::= 10
maxnoofTDDNeighbours  INTEGER ::= 10
maxTFcount             INTEGER ::= 10
maxnoofTFCs            INTEGER ::= 10
maxFACHCell            INTEGER ::= 10
maxnoCCTrCH            INTEGER ::= 10
maxnoCCTrCHs           INTEGER ::= 10
maxnoofCCTrCH          INTEGER ::= 10
maxnoofDPCH            INTEGER ::= 10
maxnoofPUSHs           INTEGER ::= 10
maxnoofRL-1            INTEGER ::= 10
maxnoofRL-2            INTEGER ::= 10
maxRM                  INTEGER ::= 10
maxNumberOfSF          INTEGER ::= 8

-- *****
--
-- IEs
--
-- *****

id-AICH-Information-ResourceStatIndItem          INTEGER ::= 0
id-AICH-ParametersList                          INTEGER ::= 1
id-AICH-ParametersListItem                      INTEGER ::= 2
id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD  INTEGER ::= 3
id-AllowedSlotFormatInformationListItem-CTCHsetup-Req-FDD  INTEGER ::= 4
id-BlockingPriorityIndicator                    INTEGER ::= 5
id-CCTrCH-ParametersList                       INTEGER ::= 6
id-CCTrCH-ParametersListItem                   INTEGER ::= 7
id-CFN                                          INTEGER ::= 8
id-CRNC-CommunicationContextID                 INTEGER ::= 9
id-CRNCommunicationContextID                   INTEGER ::= 10
id-Cause                                        INTEGER ::= 11
id-Cell-Information-ResourceStatIndItem         INTEGER ::= 12
id-Cell-InformationItem                        INTEGER ::= 13
id-Cell-InformationList                        INTEGER ::= 14
id-Cell-Parameter                              INTEGER ::= 15
id-Cell-ParametersItem                         INTEGER ::= 16
id-Cell-ParametersList                         INTEGER ::= 17
id-CellParameter                              INTEGER ::= 18
id-CommonMeasurementObjectType                 INTEGER ::= 19
id-CommonMeasurementType                      INTEGER ::= 20
id-CommonPhysicalChannelID                    INTEGER ::= 21
id-CommonPhysicalChannelType-CTCHsetup-Req-FDD  INTEGER ::= 22
id-CommonPhysicalChannelType-CTCHsetup-Response  INTEGER ::= 23
id-CommunicationControlPort-InformationItem     INTEGER ::= 24
id-CommunicationControlPortID                  INTEGER ::= 25
id-CommunicationControlPortInformationResourceStatIndItem  INTEGER ::= 26
id-CommunicationControlPortInformationList      INTEGER ::= 27
id-CompressesModeMethod                       INTEGER ::= 28
id-ConfigurationGenerationID                  INTEGER ::= 29
id-DCH-Add-RL-ReconfPrepFDDItem               INTEGER ::= 30
id-DCH-Add-RL-ReconfPrepTDDItem               INTEGER ::= 31
id-DCH-Add-RL-ReconfReadyItem                 INTEGER ::= 32

```

id-Successful-RL-InformationResponseList-RL-SetupFailFDD	INTEGER ::= 189
id-SynchronisationMethod	INTEGER ::= 190
id-T-Cell	INTEGER ::= 191
id-TDDChipOffset	INTEGER ::= 192
id-TimeSlotConfigurationItem	INTEGER ::= 193
id-TimeSlotConfigurationList	INTEGER ::= 194
id-TransmissionGapDistance	INTEGER ::= 195
id-TransmissionGapPeriod	INTEGER ::= 196
id-TransmitGapLength	INTEGER ::= 197
id-TransmitGapPositionMode	INTEGER ::= 198
id-UARFCN	INTEGER ::= 199
id-UC-ID	INTEGER ::= 200
id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem	INTEGER ::= 201
id-UL-CCTrCH-Information-RL-ReconfReqTDDItem	INTEGER ::= 202
id-UL-CCTrCH-Information-RL-SetupReqTDDItem	INTEGER ::= 203
id-UL-CCTrCH-InformationItemIE	INTEGER ::= 204
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 205
id-UL-CCTrCH-InformationList-RL-ReconfReqTDD	INTEGER ::= 206
id-UL-CCTrCH-InformationList-RL-SetupReqTDD	INTEGER ::= 207
id-UL-CCTrCHInformation	INTEGER ::= 208
id-UL-CCTrCHInformationList	INTEGER ::= 209
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 210
id-UL-DPCH-Information-RL-ReconfPrepTDDItem	INTEGER ::= 211
id-UL-DPCH-Information-RL-SetupReqTDDItem	INTEGER ::= 212
id-UL-DPCH-InformationItem-RL-ReconfReqFDD	INTEGER ::= 213
id-UL-DPCH-InformationItem-RL-SetupReqFDD	INTEGER ::= 214
id-UL-DPCH-InformationItemIE	INTEGER ::= 215
id-USCH-Information-ResourceStatIndItem	INTEGER ::= 216
id-USCH-InformationItem	INTEGER ::= 217
id-USCH-List-Item-CTCHsetup-Req-TDD	INTEGER ::= 218
id-Unsuccessful-RL-InformationResponse	INTEGER ::= 219
id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem	INTEGER ::= 220
id-Unsuccessful-RL-InformationResponseItem	INTEGER ::= 221
id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD	INTEGER ::= 222
id-Unsuccessful-RL-InformationResponseList	INTEGER ::= 223
id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD	INTEGER ::= 224
<u>id-NodeBInformation-ResourceStatIndItem</u>	<u>INTEGER ::= 225</u>
<u>id-NodeB-Information-ResourceStatIndItem</u>	<u>INTEGER ::= 226</u>
<u>id-NodeBInformation-AuditResponseItem</u>	<u>INTEGER ::= 227</u>
<u>id-NodeBInformation-AuditResponseItemIE</u>	<u>INTEGER ::= 228</u>

END

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
25.433	CR	47r2	Current Version: 3.0.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: RAN#7 <small>list expected approval meeting # here</small>	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG use only)
↑	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: RAN-WG3 **Date:** 2 Mar 2000

Subject: Criticality assignment for NBAP

Work item: _____

Category:	F Correction <input 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 checked="" 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"/>
------------------	--	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: The criticality assignment shall be specified within TS25.433. The new columns within the message tabular format provide:

- Better representation and readability of the specification.
- Easier translation from the tabular format to ASN.1 code.

Clauses affected: 9.1 Message Functional Definition and Content
 9.3 Message and Information element abstract syntax (with ASN.1)

Other specs affected:	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: 25.423-CR031 → List of CRs: → List of CRs: → List of CRs: → List of CRs:
------------------------------	--	---

Other comments: The criticality information presented in this document reflects the outcome of the criticality ad hoc meeting held during RAN3#10 in Gothenburg and the followed e-mail discussion on the 3GPP TSG RAN WG3 reflector.



<----- double-click here for help and instructions on how to create a CR.

9.1 Message functional definition and content

9.1.1 Message Contents

9.1.1.1 Presence

An information element can be of the following *types*:

M	The information element is mandatory, i.e. always present in the message
O	The information element is optional, i.e. may or may not be present in the message independently on the presence or value of other information elements in the same message
C	The presence of the information element is conditional to the presence or to the value of another information element, as reported in the correspondent footnote

In case of an information element group, the group is preceded by a name for the info group (in bold). It is also indicated whether the group is mandatory, optional or conditional. Each group may be also repeated within one message. The presence field of the information elements inside one group defines if the information element is mandatory, optional or conditional if the group is present.

9.1.1.2 Criticality

Each information element or Group of information elements may have a criticality information applied to it.

Following cases are possible:

<u>=</u>	<u>No criticality information is applied explicitly.</u>
<u>YES</u>	<u>Criticality information is applied. 'YES' is usable only for non-repeatable information elements.</u>
<u>GLOBAL</u>	<u>The information element and all its repetitions together have one common criticality information. 'GLOBAL' is usable only for repeatable information elements.</u>
<u>EACH</u>	<u>Each repetition of the information element has its own criticality information. It is not allowed to assign different criticality values to the repetitions. 'EACH' is usable only for repeatable information elements.</u>

9.1.2 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.1.2.1 FDD Message

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
CHOICE common physical channel to be configured					YES	ignore
<i>Secondary CCPCH</i>					YES	reject
Secondary CCPCH		1				
Common Physical Channel ID	M				=	
FDD S-CCPCH Offset	M			Corresponds to 25.211: s-CCPCH,k	=	
DL Scrambling Code	M				=	
FDD DL Channelisation Code Number	M				=	
TFCS	M			For the DL.	=	
Secondary CCPCH Slot Format	M				=	
Pilot Bits Used Indicator	M				=	
Multiplexing Position	M				=	
STTD Indicator	M				=	
FACH Parameters	C-choiceCh	0..<maxnoof FACHs>			GLOBAL	reject
Common transport channel ID	M				=	
Transport Format Set	M			For the DL.	=	
ToAWS	M				=	
ToAWE	M				=	
Max FACH Power	M		DL Power	Maximum allowed power on the FACH.	=	
PCH Parameters	C-choiceCh	0..1			YES	reject
Common Transport Channel ID	M				=	
Transport Format Set	M			For the DL.	=	
ToAWS	M				=	
ToAWE	M				=	
PCH Power	M		DL Power		=	
PICH Parameters		1			=	
Common Physical Channel ID	M				=	
DL Scrambling Code	M				=	

FDD DL Channelisation Code Number	M				=	
PICH Power	M		DL Power	Power to be used on the PICH.	=	
PICH Mode	M			Number of PI per frame	=	
STTD Indicator	M				=	
<i>PRACH</i>					YES	reject
PRACH		1				
Common Physical Channel ID	M				=	
Scrambling Code Word Number	M				=	
TFCS	M			For the UL.	=	
Preamble Signatures	M				=	
Allowed Slot Format Information		1..<maxSF>			=	
RACH Slot Format	M				=	
RACH Sub Channel Numbers	M				=	
Puncture Limit	M			For the UL	=	
RACH Parameters		1			YES	reject
Common Transport Channel ID	M				=	
Transport Format Set	M			For the UL.	=	
AICH Parameters		1			=	
Common Physical Channel ID	M				=	
DL Scrambling Code	M				=	
AICH Transmission Timing	M				=	
FDD DL Channelisation Code Number	M				=	
AICH Power	M		DL Power		=	
STTD Indicator	M				=	

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.
<i>MaxSF</i>	Maximum number of SF for a PRACH

9.1.2.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description	<u>Criticality</u>	<u>Assigned Criticality</u>
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
CHOICE <i>common physical channels to be configured</i>					YES	ignore
<i>Secondary CCPCHs</i>					YES	reject
CCTrCH ID	M			For DL CCTrCH supporting one or several Secondary CCPCHs	=	
TFCS	M			For DL CCTrCH supporting one or several Secondary CCPCHs	=	

Secondary CCPCH		1..<maxnoof S-CCPCHs>			<u>GLOBAL</u>	<u>reject</u>
Common physical channel ID	M				=	
TDD Channelisation Code	M				=	
Time Slot	M				=	
Burst Type	M			Long or short midamble	=	
Midamble shift	M				=	
TDD Physical Channel Offset	M				=	
Repetition Period	M				=	
Repetition Length	M				=	
S-CCPCH Power	M		DL Power		=	
STTD Indicator	M				=	
PRACH					<u>YES</u>	<u>reject</u>
PRACH	M					
Common physical channel ID	M				=	
Time Slot	M				=	
TDD Channelisation Code	M				=	
Max PRACH Midamble Shifts	O				=	
PRACH Midamble	M				=	
<i>CHOICE common transport channels to be configured</i>					<u>YES</u>	<u>ignore</u>
FACH						
FACH	C ChoiceCh	1..<maxnoof FACHs>			<u>GLOBAL</u>	<u>reject</u>
Common transport channel ID	M				=	
Transport Format Set	M			For the DL.	=	
ToAWS	M				=	
ToAWE	M				=	
PCH						
PCH	C ChoiceCh	1..<maxnoof PCHs>			<u>GLOBAL</u>	<u>reject</u>
Common transport channel ID	M				=	
Transport Format Set	M			For the DL.	=	
ToAWS	M				=	
ToAWE	M				=	
PICH Parameters		1			=	
Common Physical Channel ID	M				=	
TDD Channelisation Code	M				=	
Time Slot	M				=	
Burst type	O				=	
Midamble shift	M				=	
TDD Physical Channel Offset	M				=	
Repetition period	M				=	
Repetition length	M				=	

Paging Indicator Length	M				=	
PICH Power	M				=	
<i>RACH</i>		1			YES	reject
RACH					=	
Common transport channel ID	M				=	

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
<i>MaxnoofS-CCPCHs</i>	Maximum number of Secondary CCPCHs per CCTrCH.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs that can be defined in a cell.
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.
<i>MaxnoofPCHs</i>	Maximum number of PCHs that can be defined on a Secondary CCPCH.

9.1.3 COMMON TRANSPORT CHANNEL SETUP RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
CHOICE <i>common transport channel configured</i>					YES	ignore
<i>FACH</i>					YES	ignore
FACH Parameters	C-choiceCh	0..<maxnoof FACHs>			=	
Common Transport Channel ID	M				=	
Binding ID	M				=	
Transport layer address	M				=	
<i>PCH</i>					YES	ignore
PCH Parameters	C-choiceCh	0..1			=	
Common transport channel ID	M				=	
Binding ID	M				=	
Transport layer address	M				=	
<i>RACH</i>					YES	ignore
RACH parameters		1				
Common transport channel ID	M				=	
Binding ID	M				=	
Transport layer address	M				=	
Criticality Diagnostics	O				YES	ignore

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD].

9.1.4 COMMON TRANSPORT CHANNEL SETUP FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	=
Message Type	M				YES	reject
Transaction ID	M				=	=
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.5 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

9.1.5.1 FDD Message

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
FACH parameters		<i>0..<maxFACH HCell></i>			GLOBAL	reject
Common Transport Channel ID	M				=	
Max FACH Power	O		DL Power	Maximum allowed power on the FACH.	=	
ToAWS	O				=	
ToAWE	O				=	
PCH Parameters		<i>0..1</i>			YES	reject
Common Transport Channel ID	M				=	
PCH Power	O		DL Power	Power to be used on the PCH.	=	
ToAWS	O				=	
ToAWE	O				=	
PICH Parameters		<i>0..1</i>			YES	reject
Common Physical Channel ID	M				=	
PICH Power	M		DL Power	Power to be used on the PICH.	=	
PRACH Parameters		<i>0..<maxnoof PRACHs></i>			GLOBAL	reject
Common Physical Channel ID	M				=	
Preamble Signatures	M				=	
Allowed Slot Format Information		<i>0..<maxSF></i>			=	
Slot Format	M				=	
RACH Sub Channel Numbers	O				=	
AICH Parameters		<i>0..<maxnoof PRACHs></i>			GLOBAL	reject
Common Physical Channel ID	M				=	
AICH Power	M		DL Power	Power to be used on the AICH.	=	

Range bound	Explanation
<i>MaxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
maxnoofPRACHs	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>maxSF</i>	Maximum number of SF for a PRACH

9.1.5.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
CHOICE common physical channels to be reconfigured					YES	ignore
<i>Secondary CCPCHs</i>					YES	reject
CCTrCH ID	M			For DL CCTrCH supporting one or several Secondary CCPCHs	=	
Secondary CCPCH		0..<MaxnoofS CCPCHs>			GLOBAL	reject
Common physical channel ID	M				=	
S-CCPCH Power	M			DL power	=	
<i>PICH</i>					YES	reject
PICH Parameters		0..1				
Common physical channel ID	M				=	
PICH Power	M				=	
CHOICE common transport channels to be reconfigured					YES	ignore
<i>FACH</i>						
FACH parameters		0..<Maxnoof FACHs>I			GLOBAL	reject
Common Transport Channel ID	M				=	
ToAWS	O				=	
ToAWE	O				=	
<i>PCH</i>						
PCH parameters		0..<MaxnoofP CHs>			GLOBAL	reject
Common Transport Channel ID	M				=	
ToAWS	O				=	
ToAWE	O				=	

Range bound	Explanation
<i>MaxFACHCell</i>	Maximum number of FACHs that can be repeated in a Cell
<i>MaxnoofPCHs</i>	Maximum number of PCHs that can be defined in a cell.

9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Criticality diagnostics	O				YES	ignore

9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.8 COMMON TRANSPORT CHANNEL DELETION REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject
Common Physical Channel ID	M			Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted.	YES	reject
Configuration Generation ID	M				YES	reject

9.1.9 COMMON TRANSPORT CHANNEL DELETION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Criticality diagnostics	O				YES	ignore

9.1.10 BLOCK RESOURCE REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject
Blocking Priority Indicator	M				YES	reject
Shutdown Timer	C-BlockNormal				YES	reject

Condition	Explanation
BlockNormal	The information element is present when the Blocking Priority Indicator IE indicates 'Normal Priority'.

9.1.11 BLOCK RESOURCE RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Criticality diagnostics	O				YES	ignore

9.1.12 BLOCK RESOURCE FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.13 UNBLOCK RESOURCE INDICATION

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction ID	M				=	
C-ID	M				YES	ignore

9.1.14 AUDIT REQUIRED INDICATION

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction ID	M				=	

9.1.15 AUDIT REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Cell parameters		0.. <maxCellinNodeB>			EACH	notify
C-ID	M				=	
Configuration Generation Id	M				=	

Range bound	Explanation
MaxCellinNodeB	Maximum number of cell that can be configured in Node B

9.1.16 AUDIT RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Cell Information		0.. <maxUCIDinNodeB>			EACH	ignore
C-ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Maximum DL Power Capability	FFS				=	
Minimum Spreading	FFS				=	

Factor						
Primary SCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Secondary SCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Primary CPICH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Secondary CPICH Information		0..<maxSCP ICHCell>			<u>EACH</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Primary CCPCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
BCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Secondary CCPCH Information		0..<maxSCC PCHCell>			<u>EACH</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
PCH Information		0..<maxPCH Cell >			<u>EACH</u>	<u>ignore</u>
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
PICH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	

FACH Information		0..<maxFACH HCell>			EACH	ignore
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
PRACH Information		0..<maxPRA CHCell>			EACH	ignore
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
RACH Information		0..<maxRAC HCell>			EACH	ignore
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
AICH Information		0..<maxRAC HCell>			EACH	ignore
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
SCH Information		0..1			YES	ignore
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
PSCH Information		0..1			YES	ignore
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Communication Control Port Information		0.. <maxCCPin NodeB>			EACH	ignore
Communication Control Port ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Local Cell Information		0.. <maxLocalC ellinNodeB>			EACH	ignore
Local Cell ID	M				=	
Number of Channel Elements	O				=	
Maximum DL Power Capability	O				=	
Criticality diagnostics	O				YES	ignore

Range bound	Explanation
maxCellinNodeB	Maximum number of Cell that can be configured in Node B
maxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
maxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
maxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
maxFACHCell	Maximum number of FACHes that can be defined in a Cell
maxRACHCell	Maximum number of RACHes that can be defined in a Cell
maxPCHCell	Maximum number of PCHes that can be defined in a Cell
maxPICHCell	Maximum number of PICHes that can be defined in a Cell

9.1.17 COMMON MEASUREMENT INITIATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction Id	M				=	
Measurement Id	M				YES	reject
Common Measurement Object Type	M				YES	reject
CHOICE Common Measurement Object Type					YES	ignore
"Cell"					YES	reject
C-ID	M				=	
Time Slot	O			TDD only	=	
"RACH"					YES	reject
C-ID	M				=	
Common transport channel ID	M				=	
Common Measurement Type	M				YES	reject
Measurement Characteristics	M				YES	reject
Report Characteristics	M				YES	reject

9.1.18 COMMON MEASUREMENT INITIATION RESPONSE

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction Id	M				=	
Measurement Id	M				YES	ignore
CHOICE Common <i>Measurement Object Type</i>					YES	ignore
"Cell"					YES	ignore
Common Measurement value	M				=	
"RACH"					YES	ignore
Common Measurement Value	M				=	
SFN	O			Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	O				YES	ignore

9.1.19 COMMON MEASUREMENT INITIATION FAILURE

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction Id	M				=	
Measurement Id	M				YES	ignore
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.20 COMMON MEASUREMENT REPORT

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore
CHOICE Common <i>Measurement Object Type</i>					YES	ignore
"Cell"					YES	ignore
Common Measurement value	M				=	
"RACH"					YES	ignore
Common Measurement Value	M				=	
SFN	O			Common Measurement Time Reference	YES	ignore

9.1.21 COMMON MEASUREMENT TERMINATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore

9.1.22 COMMON MEASUREMENT FAILURE INDICATION

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore
Cause	M				YES	ignore

9.1.23 CELL SETUP REQUEST

9.1.23.1 FDD Message

Information Element	Presence	Range	IE type and Reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Local Cell Id	M				YES	reject
C-Id	M				YES	reject
Configuration Generation Id	M				YES	reject
T Cell	M				YES	reject
UARFCN	M			Indicates UL/DL Frequency	YES	reject
Maximum transmission power	M				YES	reject
Primary scrambling code	M				YES	reject
Primary SCH Information		1			YES	reject
Common Physical Channel ID	M				=	
Primary SCH Power	M		DL Power		=	
TSTD Indicator	M				=	
Secondary SCH Information		1			YES	reject
Common Physical Channel ID	M				=	
Secondary SCH power	M		DL Power		=	
TSTD Indicator	M				=	
Primary CPICH Information		1			YES	reject
Common Physical Channel ID	M				=	
P-CPICH power	M				=	
Transmit Diversity	M				=	

Indicator						
Secondary CPICH Information		0..1			<u>YES</u>	<u>reject</u>
Common Physical Channel ID	M				=	
DL Scrambling code	M				=	
FDD DL Channelisation Code Number	M				=	
S-CPICH Power	M		DL Power		=	
Transmit Diversity Indicator	M				=	
Primary CCPCH Information		1			<u>YES</u>	<u>reject</u>
Common Physical Channel ID	M				=	
BCH Information		1			=	
Common Transport Channel ID	M				=	
BCH Power	M		DL Power		=	
STTD Indicator	M				=	

9.1.23.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
Local Cell Id	M				<u>YES</u>	<u>reject</u>
C-Id	M				<u>YES</u>	<u>reject</u>
Configuration Generation Id	M				<u>YES</u>	<u>reject</u>
UARFCN	M				<u>YES</u>	<u>reject</u>
Cell Parameter ID	M				<u>YES</u>	<u>reject</u>
Maximum Transmission Power	O				<u>YES</u>	<u>reject</u>
Transmission Diversity Applied	M			On DCHs	<u>YES</u>	<u>reject</u>
Sync Case	M				<u>YES</u>	<u>reject</u>
PSCH Information		1			<u>YES</u>	<u>reject</u>
Common physical channel ID	M				=	
CHOICE Sync Case						
Case 1				The same TS is used for PCCPCH	<u>YES</u>	<u>reject</u>
Time Slot	M				=	
Case 2 and Case 3				In Case 2 the same TS is used for PCCPCH	<u>YES</u>	<u>reject</u>
PSCH Time Slot	M				=	
PSCH Power	M			DL Power	=	
TSTD Indicator	M				=	
PCCPCH Information		1			<u>YES</u>	<u>reject</u>
Common physical channel ID	M				=	
CHOICE Sync Case						
Case 3					<u>YES</u>	<u>reject</u>
Time Slot	M				=	

TDD Physical Channel Offset	M				=	
Repetition Period	M				=	
Repetition Length	M				=	
PCCPCH Power	M				=	
STTD Indicator	M				=	
Time Slot Configuration		1 .. 15			<u>GLOBAL</u>	<u>reject</u>
Time Slot	M				=	
Time Slot Status	M				=	
Time Slot Direction	M				=	

Condition	Explanation
Case 3	This IE is only present if the PSCH&PCCPCH Allocation is equal to 3

9.1.24 CELL SETUP RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
Criticality diagnostics	O				<u>YES</u>	<u>ignore</u>

9.1.25 CELL SETUP FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
Cause	M				<u>YES</u>	<u>ignore</u>
Criticality diagnostics	O				<u>YES</u>	<u>ignore</u>

9.1.26 CELL RECONFIGURATION REQUEST

9.1.26.1 FDD Message

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
C-ID	M				<u>YES</u>	<u>reject</u>
Configuration Generation Id	M				<u>YES</u>	<u>reject</u>
Maximum transmission power	O				<u>YES</u>	<u>reject</u>
Primary SCH Information		0,1			<u>YES</u>	<u>reject</u>
Common Physical Channel ID	M				=	
Primary SCH power	M		DL Power		=	
Secondary SCH Information		0,1			<u>YES</u>	<u>reject</u>

Common Physical Channel ID	M				=	
Secondary SCH power	M		DL Power		=	
Primary CPICH Information		0,1			<u>YES</u>	<u>reject</u>
Common Physical Channel ID	M				=	
Primary CPICH power	M				=	
Secondary CPICH Information		0,1			<u>YES</u>	<u>reject</u>
Common Physical Channel ID	M				=	
Secondary CPICH Power	M		DL Power		=	
Primary CCPCH Information		0,1			<u>YES</u>	<u>reject</u>
BCH Information		1			=	
Common Transport Channel ID	M				=	
BCH Power	M		DL Power		=	

9.1.26.2 TDD Message

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
C-Id	M				<u>YES</u>	<u>reject</u>
Configuration Generation ID	M				<u>YES</u>	<u>reject</u>
PSCH Information		0,1			<u>YES</u>	<u>reject</u>
Common Physical Channel ID	M				=	
PSCH Power	M				=	
PCCPCH Information		0,1			<u>YES</u>	<u>reject</u>
Common Physical Channel ID	M				=	
PCCPCH Power	M				=	
Maximum Transmission Power	O				<u>YES</u>	<u>reject</u>
Time Slot Configuration		0..15			<u>GLOBAL</u>	<u>reject</u>
Time Slot	M				=	
Time Slot Status	M				=	
Time Slot Direction	M				=	

9.1.27 CELL RECONFIGURATION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
Criticality diagnostics	O				<u>YES</u>	<u>ignore</u>

9.1.28 CELL RECONFIGURATION FAILURE

Information Element	Presence	Range	IE type and reference	Semantics description	<u>Criticality</u>	<u>Assigned Criticality</u>
Message discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.29 CELL DELETION REQUEST

Information Element	Presence	Range	IE type and reference	Semantics description	<u>Criticality</u>	<u>Assigned Criticality</u>
Message discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject

9.1.30 CELL DELETION RESPONSE

Information Element	Presence	Range	IE type and reference	Semantics description	<u>Criticality</u>	<u>Assigned Criticality</u>
Message discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Criticality diagnostics	O				YES	ignore

9.1.31 RESOURCE STATUS INDICATION

Information Element	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction ID	M				=	
Indication Type	M				YES	ignore
CHOICE Indication Type					YES	ignore
"No Failure"					YES	ignore
Local Cell Information		1.. <maxLocalCellinNodeB >			EACH	ignore
Local Cell ID	M				=	
Add/Delete Indicator	M				=	
Number of Channel Elements	M				=	
Maximum DL Power Capability	M				=	
"Service Impacting"					YES	ignore
Local Cell Information		0.. <maxLocalCellinNodeB>			EACH	ignore
Local Cell ID	M				=	
Number of Channel Elements	O				=	
Maximum DL Power Capability	O				=	
Communication Control Port Information		0.. <maxCCPinNodeB>			EACH	ignore
Communication Control Port ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Cell Information		0.. <maxCellinNodeB>			EACH	ignore
C-ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Maximum DL Power Capability	FFS				=	
Minimum Spreading Factor	FFS				=	
Primary SCH Information		0..1			YES	ignore
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Secondary SCH Information		0..1			YES	ignore
Common Physical	M				=	

Channel ID						
Resource Operational State	M				=	
Availability Status	M				=	
Primary CPICH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Secondary CPICH Information		0..<maxSCP ICHCell>			<u>EACH</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Primary CCPCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
BCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Secondary CCPCH Information		0..<maxSCC PCHCell>			<u>EACH</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
PCH Information		0..<maxPCH Cell>			<u>EACH</u>	<u>ignore</u>
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
PICH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
FACH Information		0..<maxFACH Cell>			<u>EACH</u>	<u>ignore</u>
Common Transport Channel ID	M				=	
Resource Operational State	M				=	

Availability Status	M				=	
PRACH Information		0..<maxPRA CHCell>			<u>EACH</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
RACH Information		0.. <maxPRAC HCell>			<u>EACH</u>	<u>ignore</u>
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
AICH Information		0.. <maxPRAC HCell>			<u>EACH</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
SCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Transport Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
PSCH Information		0..1			<u>YES</u>	<u>ignore</u>
Common Physical Channel ID	M				=	
Resource Operational State	M				=	
Availability Status	M				=	
Cause	O				<u>YES</u>	<u>ignore</u>

Range bound	Explanation
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICH that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCH that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHes that can be defined in a Cell
<i>maxPCHCell</i>	Maximum number of PCHes that can be defined in a Cell
maxPRACHCell	Maximum number of PRACHes and AICHes that can be defined in a Cell
<i>maxCCPinNodeB</i>	Maximum number of communication control ports that can exist in the Node B

9.1.32 SYSTEM INFORMATION UPDATE REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
C-ID	M				YES	reject
BCCH Modification Time	O				YES	reject
MIB/SIBInformation		1.. <i>maxIB</i>			GLOBAL	reject
IB Type	M				=	
SIB Deletion Indicator	C-NotMIB				=	
CHOICE <i>DeletionIndicator</i>						
<i>NoDeletion</i>					YES	reject
SIB Originator	C-NotMIB				=	
Segment Information		1.. <i>maxIBSEG</i>			GLOBAL	reject
Segment Type	M				=	
IB SG REP	M				=	
IB SG POS	M				=	
IB SG	C – CRNCOri gination				=	

Range bound	Explanation
1.. <i>maxIB</i>	Maximum number of information Blocks supported in a physical channel scheduling cycle
1.. <i>maxIBSEG</i>	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOri gination	The IE shall be present if <i>the SIB Originator</i> IE is set to 'CRNC'
NotMIB	This IE shall be present if the IB Type is not equal to "MIB"

9.1.33 SYSTEM INFORMATION UPDATE RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Criticality diagnostics	O				YES	ignore

9.1.34 SYSTEM INFORMATION UPDATE FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Transaction ID	M				=	
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.35 RADIO LINK SETUP REQUEST

9.1.35.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	reject
Transaction ID	M				=	
UL DPCH Information		1			YES	reject
UL Scrambling Code	M				=	
Min UL Channelisation Code length	M				=	
Max Number of UL DPDCHs	C – CodeLen				=	
puncture limit	M			For UL	=	
Transport Format Combination Set	M			for UL	=	
UL DPCCH Slot Format	M				=	
UL Eb/No Target	M		Uplink Eb/No		=	
Diversity mode	M				=	
D Field Length	C – FB				=	
SSDT cell ID Length	O				=	
S Field Length	O				=	
DL DPCH Information					YES	reject
Transport Format Combination Set	M			For DL	=	
DL DPCH Slot Format	M				=	
TFCI signalling mode	M				=	
TFCI presence	C- SlotFormat				=	
Multiplexing Position	M				=	
Power Offset Information		1			=	
PO1	M		Power Offset	Power offset for the TFCI bits	=	
PO2	M		Power Offset	Power offset for the TPC bits	=	
PO3	M		Power Offset	Power offset for the pilot bits	=	
Delta TPC	M				=	
DCH Information		1 to <maxnoofD CHs>			GLOBAL	reject
DCH ID	M				=	
DCH Combination Ind	O				=	
RLC mode	M				=	
Transport Format Set	M			For UL	=	
Transport Format Set	M			For DL	=	
Frame Handling Priority	M				=	
Payload CRC Presence Indicator	M				=	
UL FP mode	M				=	
ToAWS	M				=	

ToAWE	M				=	
RL ID	O			RL Supporting the DSCH	YES	reject
DSCH TFCS	O				YES	reject
DSCH Information		0 to <maxnoofDSCHs>			GLOBAL	reject
DSCH ID	M				=	
Transport Format Set	M			For DSCH	=	
Frame handling Priority	M				=	
ToAWS	M				=	
ToAWE	M				=	
RL Information		1 to <maxnoofRLs>			EACH	notify
RL ID	M				=	
C-ID	M				=	
Frame Offset	M				=	
Chip Offset	M				=	
Propagation Delay	O				=	
Diversity Control Field	C – NotFirstRL				=	
DL Code Information		1 to <maxnoof-DLCodes>			=	
DL Scrambling Code	M				=	
FDD DL Channelisation Code Number	M				=	
Initial DL transmission Power	M		DL Power		=	
Maximum DL power	M		DL Power		=	
Minimum DL power	M		DL Power		=	
SSDT Cell Identity	O				=	

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.

Range bound	Explanation
MaxnoofDSCHs	Maximum no. of DSCHs for one UE.
MaxnoofDCHs	Maximum no. of DCHs for one UE.
MaxnoofRLs	Maximum no. of RLs for one UE.
MaxnoofDLCodes	Maximum no. of DL code information.

9.1.35.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	reject
Transaction ID	M				=	
UL CTrCH Information		0 to <maxno CTrCH>			EACH	notify
CTrCH ID	M				=	
Transport Format Combination Set	M				=	
TFCI Coding	M				=	
Puncture Limit	M				=	
UL DPCH Information		0 to <maxnoOfD PCH>			GLOBAL	notify
DPCH ID	M				=	
TDD Channelisation Code	M				=	
Burst Type	M				=	
Midamble Shift	M				=	
Time Slot	M				=	
TDD Physical Channel Offset	M				=	
Repetition Period	M				=	
Repetition Length	M				=	
TFCI Presence	M				=	
DL CTrCH Information		0 to <maxno CTrCH>			EACH	notify
CTrCH ID	M				=	
Transport Format Combination Set	M				=	
TFCI Coding	M				=	
Puncture Limit	M				=	
DL DPCH information		0 to <maxnoOfD PCH>			GLOBAL	notify
DPCH ID	M				=	
TDD Channelisation Code	M				=	
Burst Type	M				=	
Midamble Shift	M				=	
Time Slot	M				=	
TDD Physical Channel Offset	M				=	
Repetition Period	M				=	
Repetition Length	M				=	
TFCI Presence	M				=	
DCH Information		1 to <maxnoofD CHs>			GLOBAL	reject
DCH ID	M				=	
RLC mode	M				=	
CTrCH ID	M			UL CTrCH in which the DCH is	=	

				mapped		
CCTrCH ID	M			DL CCTrCH in which the DCH is mapped	=	
DCH Combination Ind	O				=	
Transport Format Set	M			For UL	=	
Transport Format Set	M			For DL	=	
Frame Handling Priority	O				=	
Payload CRC Presence Indicator	M				=	
UL FP mode	M				=	
ToAWS	M				=	
ToAWE	M				=	
DSCH Information		0 to <MaxnoofD SCHs>			<u>GLOBAL</u>	<u>reject</u>
DSCH ID	M				=	
CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped	=	
Transport Format Set	M			For DSCH	=	
Frame handling Priority	M				=	
ToAWS	M				=	
ToAWE	M				=	
USCH Information		0 to <MaxnoofU SCHs>			<u>GLOBAL</u>	<u>reject</u>
USCH ID	M				=	
CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	=	
Transport Format Set	M			For USCH	=	
RL Information		1			<u>YES</u>	<u>reject</u>
RL ID	M				=	
C-ID	M				=	
Frame TDD Physical Channel Offset	M				=	
Initial DL transmission Power	M		DL Power		=	
Maximum DL power	M		DL Power		=	
Minimum DL power	M		DL Power		=	

Range bound	Explanation
MaxnoofDCHs	Maximum no. of DCHs for one UE.
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	no. of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

9.1.36 RADIO LINK SETUP RESPONSE

9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Node B Communication Context ID	M				YES	ignore
Communication Control Port ID	M				YES	ignore
RL Information Response		1 to <maxnoofRLs>			EACH	ignore
RL ID	M				=	
UL interference level	M				=	
Diversity Indication	C-NotFirstRL				=	
CHOICE <i>diversity Indication</i>						
<i>Combining</i>					YES	ignore
RL ID	M			Reference RL ID for the combining	=	
<i>Non Combining or IE not present</i>					YES	Ignore
DCH Information Response		0 to <maxnoofDCHs>		Only one DCH per set of coordinated DCH shall be included	=	
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH Information Response		0 to <NumofDSCH>			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
SSDT Support Indicator	M				=	
Criticality diagnostics	O				YES	ignore

Condition	Explanation
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.

Range bound	Explanation
MaxnoofRLs	Maximum no. of RLs for one UE.
MaxnoofDCHs	Maximum no. of DCH per UE.
MaxnoofDSCHs	Maximum no. of DSCHs for one UE.

9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Node B Communication Context ID	M				YES	ignore
Communication Control Port ID	M				YES	ignore
RL Information Response		1			YES	ignore
RL ID	M				=	
UL interference level	M				=	
DCH Information Response		1 to <maxnoofDCH>		Only one DCH per set of coordinated DCH shall be included.	GLOBAL	ignore
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
USCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
Criticality diagnostics	O				YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum no. of DCH per UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE

9.1.37 RADIO LINK SETUP FAILURE

9.1.37.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Node B Communication Context ID	M				YES	ignore
Communication Control Port ID	O				YES	ignore
Unsuccessful RL Information Response		1 to <maxnoofRLs>			EACH	ignore
RL ID	M				=	
Cause	M				=	
Successful RL Information Response		0 to <maxnoofRLs-1>			EACH	ignore
RL ID	M				=	
UL interference level	M				=	
Diversity Indication	C-NotFirstRL				=	
CHOICE <i>diversity Indication</i>					=	
<i>Combining</i>					YES	ignore
RL ID	M			Reference RL ID for the combining	=	
<i>Non Combining or IE not present</i>					YES	ignore
DCH Information Response		0 to <maxnoofDCHs>		Only one DCH per set of coordinated DCH shall be included	=	
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH Information Response		0 to <Numof DSCH>			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
SSDT Support Indicator	M				=	
Criticality diagnostics	O				YES	ignore

Condition	Explanation
Success	This IE is present if at least one of the radio links has been successfully set up.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.

Range bound	Explanation
MaxnoofRLs	Maximum no. of RLs for one UE.
MaxnoofDCHs	Maximum no. of set DCH per UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE

9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Unsuccessful RL Information Response		1			YES	ignore
RL ID	M				=	
Cause	M				=	
Criticality diagnostics	O				YES	ignore

9.1.38 RADIO LINK ADDITION REQUEST

9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				=	
RL Information		1..<maxnoof RL-1>			EACH	notify
RL ID	M				=	
C-Id	M				=	
Frame Offset	M				=	
Chip Offset	M				=	
Diversity Control Field	M				=	
DL Code Information		1..maxnoofDL Codes			=	
DL Scrambling code	M				=	
FDD DL channelisation code number	M				=	
Initial DL transmission power	O		DL Power		=	
Maximum DL power	O		DL Power		=	
Minimum DL power	O		DL Power		=	
SSDT Cell Identity	O				=	

Range bound	Explanation
MaxnoofRL	Maximum number of RLs for one UE
MaxnoofDL Codes	Maximum number of DL code information

9.1.38.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				=	
UL CTrCH Information		0 to <maxno CTrCH>			GLOBAL	reject
CTrCH ID	M				=	
UL DPCH Information		0 to <maxnoOfD PCH>			EACH	notify
DPCH ID	M				=	
TDD Channelisation Code	M				=	
Burst Type	M				=	
Midamble Shift	M				=	
Time Slot	M				=	
TDD Physical Channel Offset	M				=	
Repetition Period	M				=	
Repetition Length	M				=	
TFCI Presence	M				=	
DL CTrCH Information		0 to <maxno CTrCH>			GLOBAL	reject
CTrCH ID	M				=	
DL DPCH information		0 to <maxnoOfD PCH>			EACH	notify
DPCH ID	M				=	
TDD Channelisation Code	M				=	
Burst Type	M				=	
Midamble Shift	M				=	
Time Slot	M				=	
TDD Physical Channel Offset	M				=	
Repetition Period	M				=	
Repetition Length	M				=	
TFCI Presence	M				=	
RL Information		1			YES	reject
RL ID	M				=	
C-Id	M				=	
Frame Offset	M				=	
Diversity Control Field	M				=	
Initial DL Power	O		DL Power		=	
Maximum DL power	O		DL Power		=	
Minimum DL power	O		DL Power		=	

Range bound	Explanation
MaxnoOfDPCH	Maximum number of DPCH in one CTrCH
MaxnoCTrCH	no. of CTrCH for one UE.

9.1.39 RADIO LINK ADDITION RESPONSE

9.1.39.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
RL Information Response		1..<maxnoof RL-1>			EACH	ignore
RL ID	M				=	
UL interference level	M				=	
Diversity Indication	M				=	
CHOICE <i>diversity indication</i>					=	
<i>Combining</i>					YES	ignore
RL ID	M			Reference RL	=	
<i>Non combining</i>					YES	ignore
DCH Information Response		1..<maxnoof DCHs>			=	
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
SSDT support indicator	M				=	
Criticality diagnostics	O				YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofRL</i>	Maximum number of RLs for one UE

9.1.39.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
RL Information response		1			YES	ignore
RL ID	M				=	
UL interference level	M				=	
Diversity Indication	M				=	
CHOICE <i>diversity indication</i>						
<i>Combining</i>				In TDD it indicates whether the old Transport Bearer shall be reused or not	YES	ignore
RL ID	M			Reference RL	=	
<i>Non combining</i>					YES	ignore
DCH Information Response		0..<maxnoof DCHs>			=	
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH Information Response		0 .. <MaxnoofD SChs			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
USCH Information Response		0 .. <MaxnoofU SChs			GLOBAL	ignore
USCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
Criticality diagnostics	O				YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUDCHs</i>	Maximum number of USCHs for one UE

9.1.40 RADIO LINK ADDITION FAILURE

9.1.40.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Unsuccessful RL Information Response		1..<maxnoof RL-1>			EACH	ignore
RL ID	M				=	
Cause	M				=	
Successful RL Information Response		1..<maxnoof RL-2>			EACH	ignore
RL ID	M				=	
UL interference level	M				=	
Diversity Indication	M				=	
CHOICE <i>diversity indication</i>						
<i>Combining</i>					YES	ignore
RL ID	M			Reference RL	=	
<i>Non combining</i>					YES	ignore
DCH Information Response		1..<maxnoof DCHs>			=	
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
SSDT support indicator	M				=	
Criticality diagnostics	O				YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofRL</i>	Maximum number of RLs for one UE

9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Unsuccessful RL Information Response		1			YES	ignore
RL ID	M				=	
Cause	M				=	
Criticality diagnostics	O				YES	ignore

9.1.41 RADIO LINK RECONFIGURATION PREPARE

9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				=	
UL DPCH Information		0..1			YES	reject
UL Scrambling code	O				=	
Min UL Channelisation Code Length	O				=	
Max Number of UL DPDCHs	C – CodeLen				=	
Puncture Limit	O			For UL	=	
TFCS	O				=	
UL DPCCCH Slot Format	O				=	
SSDT Cell Identity Length	O				=	
S-Field Length	O				=	
DL DPCH Information		0..1			YES	reject
TFCS	O				=	
DL DPCH Slot Format	O				=	
TFCI Signalling Mode	O				=	
TFCI presence	C-Slot Format				=	
DTX Insertion Point	O				=	
DCHs to Modify		0..<maxnoof DCHs>			GLOBAL	reject
DCH ID	M				=	
Transport Format Set	O			For the UL.	=	
Transport Format Set	O			For the DL.	=	
Frame Handling Priority	O				=	
UL FP Mode	O				=	
ToAWS	O				=	
ToAWE	O				=	
DCHs to Add		0..<maxnoof DCHs>			GLOBAL	reject
DCH ID	M				=	
DCH Combination Ind	O				=	
RLC Mode	M				=	
Transport Format Set	M			For the UL.	=	
Transport Format Set	M			For the DL.	=	
Frame Handling Priority	M				=	
Payload CRC Presence Indicator	M				=	
UL FP Mode	M				=	
ToAWS	M				=	
ToAWE	M				=	
DCHs to Delete		0..<maxnoof DCHs>			GLOBAL	reject
DCH ID	M				=	
DSCH to modify		0..1			YES	reject
Transport Format Set	O			For the DL.	=	

RL ID	O				=	
Frame Handling Priority	O				=	
ToAWS	O				=	
ToAWE	O				=	
DSCH to add		0..1			<u>YES</u>	<u>reject</u>
Transport Format Set	M			For the DL.	=	
RL ID	M				=	
Frame Handling Priority	M				=	
ToAWS	M				=	
ToAWE	M				=	
DSCH to Delete		0..1			<u>YES</u>	<u>reject</u>
RL ID	M				=	
RL Information		0..<maxnoof RLs>			<u>EACH</u>	<u>reject</u>
RL ID	M				=	
DL Code Information		0..<maxnoof DLCodes<			=	
DL Scrambling Code	O				=	
FDD DL Channelisation Code Number	O				=	
Maximum DL Power	O		DL Power		=	
Minimum DL Power	O		DL Power		=	
SSDT Indication	O				=	
SSDT Cell Identity	C - SSDTIndO N				=	

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

9.1.41.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Node B Communication Context ID	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
UL CTRCH Information		0.. <maxnoof CTRCHs>			<u>GLOBAL</u>	<u>reject</u>
CTRCH ID	M				=	
TFCS	O				=	
TFCI Coding	O				=	
Puncture Limit	O				=	
UL DPCH Information		0.. <maxnoof DPCHs>			<u>GLOBAL</u>	<u>reject</u>
DPCH ID	M				=	
TDD Channelisation Code	O				=	
Burst Type	O				=	
Midamble Shift	O				=	
Time Slot	O				=	
TDD Physical channel Offset	O				=	
Repetition Period	O				=	
Repetition Length	O				=	
TFCI Presence	O				=	
DL CTRCH Information		0.. <maxnoof CTRCHs			<u>GLOBAL</u>	<u>reject</u>
CTRCH ID	M				=	
TFCS	O				=	
TFCI Coding	O				=	
PunctureLimit					=	
DL DPCH Information		0.. <maxnoof DPCHs>			<u>GLOBAL</u>	<u>reject</u>
DPCH ID	M				=	
TDD Channelisation Code	O				=	
Burst Type	O				=	
Midamble Shift	O				=	
Time Slot	O				=	
TDD Physical Channel Offset	O				=	
Repetition Period	O				=	
Repetition Length	O				=	
TFCI Presence	O				=	
DCHs to Modify		0..<maxnoof DCHs>			<u>GLOBAL</u>	<u>reject</u>
DCH ID	M				=	
CTRCH ID	O			UL CTRCH in which the DCH is mapped.	=	
CTRCH ID	O			DL CTRCH in which the DCH is	=	

				mapped		
Transport Format Set	O			For the UL.	=	
Transport Format Set	O			For the DL.	=	
Frame Handling Priority	O				=	
UL FP Mode	O				=	
ToAWS	O				=	
ToAWE	O				=	
DCHs to Add		0..<maxnoof DCHs>			<u>GLOBAL</u>	<u>reject</u>
DCH ID	M				=	
RLC Mode	M				=	
CCTrCH ID	M			UL CCTrCH in which the DCH is mapped.	=	
CCTrCH ID	M			DL CCTrCH in which the DCH is mapped	=	
DCH Combination Ind	O				=	
Transport Format Set	M			For the UL.	=	
Transport Format Set	M			For the DL.	=	
Frame Handling Priority	M				=	
Payload CRC Presence Indicator	M				=	
UL FP Mode	M				=	
ToAWS	M				=	
ToAWE	M				=	
DCHs to Delete		0..<maxnoof DCHs>			<u>GLOBAL</u>	<u>reject</u>
DCH ID	M				=	
DSCH Information to modify		0 .. <Maxnoof DSCHs>			<u>GLOBAL</u>	<u>reject</u>
DSCH ID	M				=	
CCTrCH ID	O			DL CCTrCH in which the DSCH is mapped	=	
Transport Format Set	O				=	
Frame handling Priority	O				=	
ToAWS	O				=	
ToAWE	O				=	
DSCH Information to add		0 .. <Maxnoof DSCHs>			<u>GLOBAL</u>	<u>reject</u>
DSCH ID	M				=	
CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped	=	
Transport Format Set	M				=	
Frame handling Priority	O				=	
ToAWS	M				=	
ToAWE	M				=	
DSCH Information to delete		0 .. <Maxnoof DSCHs>			<u>GLOBAL</u>	<u>reject</u>
DSCH ID	M				=	
USCH Information to modify		0 .. <Maxnoof USCHs>			<u>GLOBAL</u>	<u>reject</u>
USCH ID	M				=	
Transport Format Set	O				=	

CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	=	
USCH Information to add		0 .. <Maxnoof USCHs>			<u>GLOBAL</u>	<u>reject</u>
USCH ID	M				=	
CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	=	
Transport Format Set	M				=	
USCH Information to delete		0 .. <Maxnoof USCHs>			<u>GLOBAL</u>	<u>reject</u>
USCH ID	M				=	
RL Information		0..1			<u>YES</u>	<u>reject</u>
RL ID	M				=	
Maximum Downlink Power	O		DL Power		=	
Minimum Downlink Power	O		DL Power		=	

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>Maxnoof DPCHs</i>	Maximum number of DPCHs in one CCTrCH.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.42 RADIO LINK RECONFIGURATION READY

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
RL Information Response		0..<maxnoof RLS>		Only one RL information response group for one group of combined RLS shall be present	EACH	ignore
RL ID	M				=	
DCH to be Added		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DCH to be Modified		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH to be Setup		0..<Maxnoof DSCHs>			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH to be Modified		0..<Maxnoof DSCHs.			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
USCH to be setup		0 .. <Maxnoof USCHs>			GLOBAL	ignore
USCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
USCH to be modified		0 .. <Maxnoof USCHs>			GLOBAL	ignore
USCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
Criticality diagnostics	O				YES	ignore

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.43 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Cause	M				YES	ignore
RLs Causing Reconfiguration Failure		<i>0..<maxnoof RLs></i>			EACH	ignore
RL ID	M				=	
Cause	M				=	
Criticality diagnostics	O				YES	ignore

Range Bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.

9.1.44 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message type	M				YES	ignore
Node B Communication Context ID	M				YES	ignore
Transaction ID	M				=	
CFN	M				YES	ignore

9.1.45 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message type	M				YES	ignore
Node B Communication Context ID	M				YES	ignore
Transaction ID	M				=	

9.1.46 RADIO LINK RECONFIGURATION REQUEST

9.1.46.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				=	
UL DPCH Information		0..1			YES	reject
TFCS	O			For the UL.	=	
DL DPCH Information		0..1			YES	reject
TFCS	O			For the DL.	=	
TFCI Signalling Mode	O				=	
DCHs to Modify		0..<maxnoof DCHs>			GLOBAL	reject
DCH ID	M				=	
Transport Format Set	O			For the UL.	=	
Transport Format Set	O			For the DL.	=	
Frame Handling Priority	O				=	
UL FP Mode	O				=	
ToAWS	O				=	
ToAWE	O				=	
DCHs to Add		0..<maxnoof DCHs>			GLOBAL	reject
DCH ID	M				=	
DCH Combination Ind	O				=	
RLC Mode	M				=	
Transport Format Set	M			For the UL.	=	
Transport Format Set	M			For the DL.	=	
Frame Handling Priority	M				=	
Payload CRC Presence Indicator	M				=	
UL FP mode	M				=	
ToAWS	M				=	
ToAWE	M				=	
DCHs to Delete		0..<maxnoof DCHs>			GLOBAL	reject
DCH ID	M				=	
DSCH to Modify		0..1			YES	reject
Transport Format Set	O			For the DL.	=	
RL ID	O				=	
Frame Handling Priority	O				=	
ToAWS	O				=	
ToAWE	O				=	
DSCH to Add		0..1			YES	reject
Transport Format Set	M			For the DL.	=	
RL ID	M				=	
Frame Handling Priority	M				=	
ToAWS	M				=	
ToAWE	M				=	
DSCH to Delete		0..1			YES	reject
RL ID	M				=	
Radio Link Information		0..<maxnoof RLS>			EACH	reject

RL ID	M				=	
Maximum DL Power	O		DL Power		=	
Minimum DL Power	O		DL Power		=	

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.

9.1.46.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				<u>YES</u>	<u>reject</u>
Node B Communication Context ID	M				<u>YES</u>	<u>reject</u>
Transaction ID	M				=	
UL CCTrCH Information		<i>0..<maxnoof CCTrCHs></i>			<u>EACH</u>	<u>notify</u>
CCTrCH ID	M				=	
TFCS	O				=	
Puncture Limit	O				=	
DL CCTrCH Information		<i>0..<maxnoof CCTrCHs></i>			<u>EACH</u>	<u>notify</u>
CCTrCH ID	M				=	
TFCS	O				=	
Puncture Limit	O				=	
DCHs to Modify		<i>0..<maxnoof DCHs></i>			<u>GLOBAL</u>	<u>reject</u>
DCH ID	M				=	
CCTrCH ID	O			UL CCTrCH in which the DCH is mapped.	=	
CCTrCH ID	O			DL CCTrCH in which the DCH is mapped	=	
Transport Format Set	O			For the UL.	=	
Transport Format Set	O			For the DL.	=	
Frame Handling Priority	O				=	
UL FP Mode	O				=	
ToAWS	O				=	
ToAWE	O				=	
DCHs to Add		<i>0..<maxnoof DCHs></i>			<u>GLOBAL</u>	<u>reject</u>
DCH ID	M				=	
RLC Mode	M				=	
CCTrCH ID	M			UL CCTrCH in which the DCH is mapped.	=	
CCTrCH ID	M			DL CCTrCH in which the DCH is mapped	=	
DCH Combination Ind	O				=	
Transport Format Set	M			For the UL.	=	
Transport Format Set	M			For the DL.	=	
Frame Handling Priority	M				=	
Payload CRC Presence Indicator	M				=	
UL FP Mode	M				=	
ToAWS	M				=	
ToAWE	M				=	
DCHs to Delete		<i>0..<maxnoof DCHs></i>			<u>GLOBAL</u>	<u>reject</u>
DCH ID	M				=	
DSCH Information to modify		<i>0 .. <Maxnoof DSCHs></i>			<u>GLOBAL</u>	<u>reject</u>

DSCH ID	M				=	
CCTrCH ID	O			DL CCTrCH in which the DSCH is mapped	=	
Transport Format Set	O				=	
Frame handling Priority	O				=	
ToAWS	O				=	
ToAWE	O				=	
DSCH Information to add		0 .. <Maxnoof DSCHs>			<u>GLOBAL</u>	<u>reject</u>
DSCH ID	M				=	
CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped	=	
Transport Format Set	M				=	
Frame handling Priority	O				=	
ToAWS	M				=	
ToAWE	M				=	
DSCH Information to delete		0 .. <Maxnoof DSCHs>			<u>GLOBAL</u>	<u>reject</u>
DSCH ID	M				=	
USCH Information to modify		0 .. <Maxnoof USCHs>			<u>GLOBAL</u>	<u>reject</u>
USCH ID	M				=	
CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	=	
Transport Format Set	O				=	
USCH Information to add		0 .. <Maxnoof USCHs>			<u>GLOBAL</u>	<u>reject</u>
USCH ID	M				=	
CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	=	
Transport Format Set	M				=	
USCH Information to delete		0 .. <Maxnoof USCHs>			<u>GLOBAL</u>	<u>reject</u>
USCH ID	M				=	
RL Information		0..1			<u>YES</u>	<u>reject</u>
RL ID	M				=	
Maximum Downlink Power	O		DL Power		=	
Minimum Downlink Power	O		DL Power		=	

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
RL Information Response		0..<maxnoof RLS>		Only one RL information response group for one group of combined RLS shall be present	EACH	ignore
RL ID	M				=	
DCH to be Added		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DCH to be Modified		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
DCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH to be Setup		0..<Maxnoof DSCHs>			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
DSCH to be Modified		0..<Maxnoof DSCHs>			GLOBAL	ignore
DSCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
USCH to be setup		0 .. <Maxnoof USCHs>			GLOBAL	ignore
USCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
USCH to be modified		0 .. <Maxnoof USCHs>			GLOBAL	ignore
USCH ID	M				=	
Binding ID	M				=	
Transport Layer Address	M				=	
Criticality diagnostics	O				YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

9.1.48 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				=	
RL Information		1..<maxnoof RLs>			EACH	notify
RL ID	M				=	

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of radio links for one UE

9.1.49 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	ignore
Transaction ID	M				=	
Criticality diagnostics	O				YES	ignore

9.1.50 DL POWER CONTROL REQUEST (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Node B Communication Context ID	M				YES	ignore
Transaction ID	M				=	
CHOICE <i>procedure scope</i>					YES	ignore
"ALL RL's"					YES	ignore
DL Reference Power	M		DL power		=	
"Individual RL's"						
DL Reference Power Information		1..<maxnoof RLs>			GLOBAL	ignore
RL ID	M				=	
DL Reference Power	M		DL power		=	

Range Bound	Explanation
MaxnoofRLs	Maximum number of Radio Links for a UE

9.1.51 DEDICATED MEASUREMENT INITIATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
Node B Communication Context Id	M				YES	reject
Transaction Id	M				=	
Measurement Id	M				YES	reject
Dedicated Measurement Object Type	M				YES	reject
CHOICE <i>Dedicated Measurement Object Type</i>					YES	ignore
"RL"					YES	reject
RL Information		1..<maxnoof RLs>			EACH	reject
RL-id	M				=	
DPCH ID	O				=	
Dedicated Measurement Type	M				YES	reject
Measurement Characteristics	M				YES	reject
Report Characteristics	M				YES	reject

Range	Explanation
MaxnoofRLs	Maximum number of individual RL's a measurement can be started on.

9.1.52 DEDICATED MEASUREMENT INITIATION RESPONSE

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context Id	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
"RL"					YES	ignore
RL Information		1..<maxnoof RLs>			EACH	ignore
RL-id	M				=	
DPCH ID	O				=	
Dedicated Measurement Value	M					
"ALLRL"					YES	ignore
Dedicated Measurement Value	M				=	
CFN	O			Dedicated Measurement Time Reference	YES	ignore
Criticality diagnostics	O				YES	ignore

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's the measurement can be started on.

9.1.53 DEDICATED MEASUREMENT INITIATION FAILURE

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC Communication Context Id	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.54 DEDICATED MEASUREMENT REPORT

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
CRNC Communication Context Id	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
"RL"					YES	ignore
RL Information		1..<maxnoof RLs>			EACH	ignore
RL-id	M				=	
DPCH ID	O				=	
Dedicated Measurement Value	M				=	
"ALLRL"					YES	ignore
Dedicated Measurement Value	M				=	
CFN	O			Dedicated Measurement Time Reference	YES	ignore

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's the measurement can be started on.

9.1.55 DEDICATED MEASUREMENT TERMINATION REQUEST

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Node B Communication Context Id	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore

9.1.56 DEDICATED MEASUREMENT FAILURE INDICATION

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
CRNC Communication Context Id	M				YES	ignore
Transaction Id	M				=	
Measurement Id	M				YES	ignore
Cause	M				YES	ignore

9.1.57 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction ID	M				=	
CRNC Communication Context ID	M				YES	ignore
Radio Link Information		1 to <MaxnoofRLs>			EACH	ignore
RL ID	M				=	
Cause	M				=	

Range bound	Explanation
MaxnoofRLs	Maximum no. of RLS for one UE.

9.1.58 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
Transaction ID	M				=	
CRNC Communication Context ID	M				YES	ignore
Radio Link Information		1 to <MaxnoofRLs>			EACH	ignore
RL ID	M				=	

Range bound	Explanation
MaxnoofRLs	Maximum no. of RLS for one UE.

9.1.59 COMPRESSED MODE PREPARE (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
NodeB communication context ID	M				YES	reject
Transaction ID	M				=	
TGP1	M		Gap Period	Refer to 25.215	YES	reject
TGP2	O		Gap Period	Refer to 25.215	YES	reject
TGL	M				YES	reject
TGD	M				YES	reject
PD	M				YES	reject
UL/DL compressed mode selection	M				YES	reject
Compressed mode method	M				YES	reject
Gap Position Mode	M				YES	reject
SN	C-Flex		TimeSlot		YES	reject
Downlink Frame Type	M				YES	reject
Scrambling Code Change	C-SF/2				YES	reject
Power Control Mode	M				YES	reject
Power Resume Mode	M				YES	reject
UL delta Eb/No	M				YES	reject
UL delta Eb/No after	M				YES	reject

Condition	Explanation
Flex	This IE is present only if "Gap position Mode" equals to 'flexible'.
SF/2	This IE is present only if Compressed Mode Method equals to SF/2

9.1.60 COMPRESSED MODE READY (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC communication context ID	M				YES	ignore
Transaction ID	M				=	
Criticality diagnostics	O				YES	ignore

9.1.61 COMPRESSED MODE COMMIT (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	ignore
NodeB communication context ID	M				YES	ignore
Transaction ID	M				=	
CFN	M				YES	ignore

9.1.62 COMPRESSED MODE FAILURE (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
CRNC communication context ID	M				YES	ignore
Transaction ID	M				=	
Cause	M				YES	ignore
Criticality diagnostics	O				YES	ignore

9.1.63 COMPRESSED MODE CANCEL (FDD only)

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				=	
Message Type	M				YES	reject
NodeB communication context ID	M				YES	ignore
Transaction ID	M				=	

9.1.64 ERROR INDICATION

Information Element	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				=	
Message Discriminator	M				YES	ignore
Transaction Id	M				=	
Cause	C_ifalone				YES	ignore
CRNC Communication Context Id	C_ifUL				YES	ignore
Node B Communication Context Id	C_ifDL				YES	ignore
Criticality diagnostics	C_ifalone				YES	ignore

Condition	Explanation
C_ifDL	This IE is only present when message is transmitted by RNC
C_ifUL	This IE is only present when message is transmitted by node B
C_ifalone	At least either of Cause IE or Criticality Diagnostics IE shall be present.

9.3.2 PDU Description for NBAP

```

-- *****
--
-- Elementary Procedure definitions
--
-- *****

| NBAP-ELEMENTARY-PROCEDUREdefinitions -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    ProcedureID,
    MessageDiscriminator,
    TransactionID
FROM NBAP-CommonDataTypes

    CommonTransportChannelSetupRequestFDD,
    CommonTransportChannelSetupRequestTDD,
    CommonTransportChannelSetupResponse,
    CommonTransportChannelSetupFailure,
    CommonTransportChannelReconfigurationRequestFDD,
    CommonTransportChannelReconfigurationRequestTDD,
    CommonTransportChannelReconfigurationResponse,
    CommonTransportChannelReconfigurationFailure,
    CommonTransportChannelDeletionRequest,
    CommonTransportChannelDeletionResponse,
    BlockResourceRequest,
    BlockResourceResponse,
    BlockResourceFailure,
    UnblockResourceIndication,
    AuditRequiredIndication,
    AuditRequest,
    AuditResponse,
    CommonMeasurementInitiationRequest,
    CommonMeasurementInitiationResponse,
    CommonMeasurementInitiationFailure,
    CommonMeasurementTerminationRequest,
    CommonMeasurementFailureIndication,
    CommonMeasurementReport,
    CellSetupRequestFDD,
    CellSetupRequestTDD,

```

CellSetupResponse,
CellSetupFailure,
CellReconfigurationRequestFDD,
CellReconfigurationRequestTDD,
CellReconfigurationResponse,
CellReconfigurationFailure,
CellDeletionRequest,
CellDeletionResponse,
ResourceStatusIndication,
SystemInformationUpdateRequest,
SystemInformationUpdateResponse,
SystemInformationUpdateFailure,
RadioLinkSetupRequestFDD,
RadioLinkSetupResponseFDD,
RadioLinkSetupFailureFDD,
RadioLinkSetupRequestTDD,
RadioLinkSetupResponseTDD,
RadioLinkSetupFailureTDD,
~~NeighbourCellMeasurementRequestTDD,~~
~~NeighbourCellMeasurementResponseTDD,~~
~~NeighbourCellMeasurementFailureTDD,~~
~~SynchronisationAdjustmentRequestTDD,~~
~~SynchronisationAdjustmentResponseTDD,~~
~~SynchronisationAdjustmentFailureTDD,~~
~~NodeBOutOfSyncIndicationTDD,~~
~~SynchronisationRestartRequestTDD,~~
RadioLinkAdditionRequestFDD,
RadioLinkAdditionResponseFDD,
RadioLinkAdditionFailureFDD,
RadioLinkAdditionRequestTDD,
RadioLinkAdditionResponseTDD,
RadioLinkAdditionFailureTDD,
RadioLinkReconfigurationPrepareFDD,
RadioLinkReconfigurationPrepareTDD,
RadioLinkReconfigurationReady,
RadioLinkReconfigurationCommit,
RadioLinkReconfigurationFailure,
RadioLinkReconfigurationCancel,
RadioLinkReconfigurationRequestFDD,
RadioLinkReconfigurationRequestTDD,
RadioLinkReconfigurationResponse,
RadioLinkDeletionRequest,
RadioLinkDeletionResponse,
DLPowerControlRequestFDD,
DedicatedMeasurementInitiationRequest,
DedicatedMeasurementInitiationResponse,
DedicatedMeasurementInitiationFailure,
DedicatedMeasurementTerminationRequest,
DedicatedMeasurementFailureIndication,
DedicatedMeasurementReport,
RadioLinkFailureIndication,
RadioLinkRestoreIndication,
CompressedModePrepareFDD,

```

CompressedModeReadyFDD,
CompressedModeCommitFDD,
CompressedModeFailureFDD,
CompressedModeCancelFDD,
ErrorIndication
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-commonTransportChannelDeletion,
id-commonTransportChannelReconfiguration,
id-commonTransportChannelSetup,
id-compressedModeControlCancellation,
id-compressedModeControlCommit,
id-compressedModeControlPreparation,
id-dedicatedMeasurementFailure,
id-dedicatedMeasurementInitiation,
id-dedicatedMeasurementReport,
id-dedicatedMeasurementTermination,
id-dlPowerControl,
id-errorIndication,
id-neighbourCellMeasurement,
id-radioLinkAddition,
id-radioLinkDeletion,
id-radioLinkFailure,
id-radioLinkReconfigurationCommit,
id-radioLinkReconfigurationCancel,
id-radioLinkRestoration,
id-radioLinkSetup,
id-resourceStatusIndication,
id-synchronisationAdjustment,
id-synchronisationFailure,
id-synchronisationRestart,
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 ::= {
    commonTransportChannelSetupFDD          |
    commonTransportChannelSetupTDD         |
    commonTransportChannelReconfigurationFDD |
    commonTransportChannelReconfigurationTDD |
    commonTransportChannelDeletion         |
    blockResource                          |
    audit                                  |
    commonMeasurementInitiation            |
    cellSetupFDD                          |
    cellSetupTDD                          |
    cellReconfigurationFDD                |
    cellReconfigurationTDD                |
    cellDeletion                          |
    systemInformationUpdate                |
    radioLinkSetupFDD                     |
    radioLinkSetupTDD                     |
    neighbourCellMeasurementTDD           |
    synchronisationAdjustmentTDD          |
    radioLinkAdditionFDD                  |
}

```

```

    radioLinkAdditionTDD
    radioLinkReconfigurationCommit
    radioLinkReconfigurationCancellation
    radioLinkDeletion
    dedicatedMeasurementInitiation
    compressedModeControlPreparationFDD
    ...
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
    unblockResource
    auditRequired
    commonMeasurementTermination
    commonMeasurementFailure
    commonMeasurementReport
    resourceStatusIndication
    synchronisationFailureTDD
    synchronisationRestartTDD
    synchronisedRadioLinkReconfigurationPreparationFDD
    synchronisedRadioLinkReconfigurationPreparationTDD
    unsynchronisedRadioLinkReconfigurationFDD
    unsynchronisedRadioLinkReconfigurationTDD
    dlPowerControlFDD
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
    dedicatedMeasurementReport
    radioLinkFailure
    radioLinkRestoration
    compressedModeControlCommitFDD
    compressedModeControlCancellationFDD
    errorIndication
    ...
}

-- *****
--
-- Interface Elementary Procedures
--
-- *****

-- Class 1

-- *** 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 rejectIgnore
}

-- *** 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+ignore
}

-- *** CommonTransportChannelReconfiguration (FDD) ***
commonTransportChannelReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelReconfigurationRequestFDD
    SUCCESSFUL OUTCOME CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR common
    PROCEDURE ID { procedureCode id-commonTransportChannelReconfiguration, ddMode fdd }
    CRITICALITY reject+ignore
}

-- *** CommonTransportChannelReconfiguration (TDD) ***
commonTransportChannelReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR common
    PROCEDURE ID { procedureCode id-commonTransportChannelReconfiguration, ddMode tdd }
    CRITICALITY reject+ignore
}

-- *** CommonTransportChannelDeletionRequest ***
commonTransportChannelDeletionRequest NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelDeletionRequest
    SUCCESSFUL OUTCOME CommonTransportChannelDeletionResponse
    MESSAGE DISCRIMINATOR common
    PROCEDURE ID { procedureCode id-commonTransportChannelDeletion, ddMode common }
    CRITICALITY reject+ignore
}

-- *****
-- *** 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+ignore
}

-- *** UnblockResourceIndication ***
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UnblockResourceIndication
    MESSAGE DISCRIMINATOR common
}

```



```

    PROCEDURE ID      { procedureCode id-unblockResource, ddMode common }
    CRITICALITY      ignore
}

-- *****
-- *** AuditRequired ***
auditRequired NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  AuditRequiredIndication
    MESSAGE DISCRIMINATOR  common
    PROCEDURE ID        { procedureCode id-auditRequired, ddMode common }
    CRITICALITY          ignore
}

-- *** Audit ***
audit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  AuditRequest
    SUCCESSFUL OUTCOME  AuditResponse
    MESSAGE DISCRIMINATOR  common
    PROCEDURE ID        { procedureCode id-audit, ddMode common }
    CRITICALITY          rejectignore
}

-- *****
-- *** 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          rejectignore
}

-- *** 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
}

-- *** CommonMeasurementReport ***
commonMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  CommonMeasurementReport
    MESSAGE DISCRIMINATOR  common

```

```

PROCEDURE ID      { procedureCode id-commonMeasurementReport, ddMode common }
CRITICALITY      ignore
}

```

```
-- *****
```

```
-- *** 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+ignore
}

```

```
-- *** 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+ignore
}

```

```
-- *** 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+ignore
}

```

```
-- *** 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+ignore
}

```

```
-- *** CellDeletion ***
```

```

cellDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CellDeletionRequest
  SUCCESSFUL OUTCOME  CellDeletionResponse
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID        { procedureCode id-cellDeletion, ddMode common }
  CRITICALITY         reject+ignore
}

```

```

-- *****
-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE ResourceStatusIndication
    MESSAGE DISCRIMINATOR common
    PROCEDURE ID { procedureCode id-resourceStatusIndication, ddMode common }
    CRITICALITY ignore
}

-- *****
-- *** 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 rejectignore
}

-- *****
-- *** 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 rejectignore
}

-- *** 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 rejectignore
}

-----
*** NeighbourCellMeasurement (TDD only) ***
neighbourCellMeasurementTDD NBAP-ELEMENTARY-PROCEDURE ::= {
INITIATING MESSAGE NeighbourCellMeasurementRequestTDD
SUCCESSFUL OUTCOME NeighbourCellMeasurementResponseTDD
UNSUCCESSFUL OUTCOME NeighbourCellMeasurementFailureTDD
MESSAGE DISCRIMINATOR common
PROCEDURE ID { procedureCode id-neighbourCellMeasurement, ddMode tdd }
CRITICALITY ignore
}
-----
*** SynchronisationAdjustment (TDD only) ***

```

```

synchronisationAdjustmentTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE SynchronisationAdjustmentRequestTDD
  SUCCESSFUL OUTCOME SynchronisationAdjustmentResponseTDD
  UNSUCCESSFUL OUTCOME SynchronisationAdjustmentFailureTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-synchronisationAdjustment, ddMode tdd }
  CRITICALITY ignore
}

-- *** NodeBOutOfSyncIndication (TDD only) ***
synchronisationFailureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE NodeBOutOfSyncIndicationTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-synchronisationFailure, ddMode tdd }
  CRITICALITY ignore
}

-- *** SynchronisationRestart (TDD only) ***
synchronisationRestartTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE SynchronisationRestartRequestTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-synchronisationRestart, ddMode tdd }
  CRITICALITY ignore
}

-- *****
-- *** 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+ignore
}

-- *** 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+ignore
}

-- *** RadioReconfigurationPrepare (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+ignore
}

-- *** RadioReconfirurationPrepare (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+ignore
}

-- *** (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+ignore
}

-- *** (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+ignore
}

-- *** RadioLinkReconfirurationCommit ***
radioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  RadioLinkReconfigurationCommit
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID      { procedureCode id-radioLinkReconfigurationCommit, ddMode common }
    CRITICALITY      ignore
}

-- *** RadioReconfigurationCancellation ***
radioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  RadioLinkReconfigurationCancel
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID      { procedureCode id-radioLinkReconfirurationCancel, ddMode common }
    CRITICALITY      ignore
}

-- *** RadioLinkDeletion ***
radioLinkDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  RadioLinkDeletionRequest

```

```

    SUCCESSFUL OUTCOME RadioLinkDeletionResponse
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID      { procedureCode id-radioLinkDeletion, ddMode common }
    CRITICALITY       reject+ignore
}

-- *****
-- *** DLPowerControl (FDD only) ***
dlPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DLPowerControlRequestFDD
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID      { procedureCode id-dlPowerControl, ddMode fdd }
    CRITICALITY       ignore
}

-- *****
-- *** 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+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
}

-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementReport
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID      { procedureCode id-dedicatedMeasurementReport, ddMode common }
    CRITICALITY       ignore
}

-- *****
-- *** RadioLinkFailureIndication ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::= {

```

```

INITIATING MESSAGE RadioLinkFailureIndication
MESSAGE DISCRIMINATOR dedicated
PROCEDURE ID { procedureCode id-radioLinkFailure, ddMode common }
CRITICALITY ignore
}

-- *** RadioLinkRestoreIndication ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkRestoreIndication
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID { procedureCode id-radioLinkRestoration, ddMode common }
  CRITICALITY ignore
}

-- *****
-- *** CompressedModePrepare (FDD only) ***
compressedModeControlPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CompressedModePrepareFDD
  SUCCESSFUL OUTCOME CompressedModeReadyFDD
  UNSUCCESSFUL OUTCOME CompressedModeFailureFDD
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID { procedureCode id-compressedModeControlPreparation, ddMode fdd }
  CRITICALITY rejectignore
}

-- *** CompressedModeCommit (FDD only) ***
compressedModeControlCommitFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CompressedModeCommitFDD
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID { procedureCode id-compressedModeControlCommit, ddMode fdd }
  CRITICALITY ignore
}

-- *** CompressedModeCancellationCommit (FDD only) ***
compressedModeControlCancellationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CompressedModeCancelFDD
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID { procedureCode id-compressedModeControlCancellation, ddMode fdd }
  CRITICALITY ignore
}

-- *** ErrorIndication ***
errorIndication NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE EerrorIndication
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID { procedureCode id-errorIndication Cancellation, ddMode common }
  CRITICALITY ignore
}

END

```

9.3.3 NBAP PDU Content Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
  -- FB to be done 111
  CommonMeasurementValue,
  FrameOffset,
  FrameTDDPhysicalChannelOffset,
  Mode-SemiStatic,
  MultiplexingPosition,
  RepetitionPeriod,
  SAI,
  ScramblingCode,
  SecondaryCPICH-Power,
  SFN,
  SlotFormat,
  SN,
  SSDT-CellIdentityLength,
  TDDChannelisationOffset,
  TDD-PhysicalChannelOffset,
  TFCI-Coding,
  TGD,
  TGL,
  TGP1,
  TGP2,
  TransmitGapPositionMode,
  TransportFormatCombinationSet,
  TransportFormatSet,
  UL-DeltaEb-No,
  UL-DeltaEb-NoAfter,
  UL-DL-CompressedModeSeletion,
  UL-DPCCH-SlotFormat,
  USCH-ID,

  AICH-InformationList,
  AICH-Parameters,

```


~~AICH-Power,~~
 AICH-TransmissionTiming,
 AddOrDeleteIndicator,
 AvailabilityStatus,
~~BCCH-ModificationTime,~~
~~BindingID,~~
~~BlockingPriorityIndicator,~~
 BurstType,
 CCTrCH-ID,
 CFN,
~~CN-CSDomainIdentifier,~~
~~CN-PSDomainIdentifier,~~
 CRNC-CommunicationContextID,
 Cause,
~~CellParameter,~~
 Cell-Parameter-ID,
 ChipOffset,
 CommonMeasurementType,
 CommonPhysicalChannelID,
~~CommonPhysicalChannelType,~~
 CommonTransportChannelID,
~~CommonTransportChannelType,~~
 CommunicationControlPortID,
~~CommunicationControlPortInformationList,~~
 CompresseddsModeMethod,
 ConfigurationGenerationID,
~~CriticalityDiagnostic,~~
 DCH-CombinationIndication,
~~DCH-Delete-RL-ReconfReqTDDItem,~~
 DCH-ID,
~~DCH-InformationResponse-RL-setupResFDD,~~
~~DCH-Modify-RL-ReconfPrepTDDItem,~~
~~DL-CCTrCH-ID,~~
~~DL-CodeInformation,~~
~~DL-DPCH-InformationItem-RL-ReconfReqFDD,~~
 DL-DPCH-SlotFormat,
 DL-FrameType,
 DL-Power,
~~DL-ReferencePower,~~
~~DL-ReferencePowerInformationItem,~~
 DL-ScramblingCode,
 DPCH-ID,
 DPCH-Offset,
 DSCH-ID,
~~DSCH-InformationResponse-RL-setupResFDD,~~
~~DSCH-ModifyList-RL-ReconfResp,~~
~~DSCH-SetupList-RL-ReconfResp,~~
~~DSCH-TFCS,~~
 DSCH-TransportFormatSet,
 DTX-InsertionPoint,
 DTX-InsertionPosition,
 D-FieldLength,
 DedicatedMeasurementType,

~~DedicatedMeasurementObjectType,~~
 DedicatedMeasurementValue,
 DeltaTPC,
 DiversityControlField,
 DiversityMode,
~~FACH-Power,~~
 FDD-DL-ChannelisationCodeNumber,
 FDD-SCCPCH-Offset,
 FrameHandlingPriority,
 FrameOffset,
~~GapStartingSlotNumber,~~
~~LocalCellID,~~
~~IB-SG,~~
~~IB-SG-POS,~~
~~IB-SG-REP,~~
~~IB-Type,~~
~~LocalCellInformationList,~~
~~IndicationType,~~
 LocalCell-ID,
~~Local-CellID,~~
~~MIB-SG-POS,~~
~~MIB-SG-REP,~~
~~MaxFACH-Power,~~
~~MaxNrOfUL-DPDCHs,~~
 MaxNumberOfUL-DPDCHs,
 MaximumDLPowerCapability,
~~MaximumDL-PowerCapability,~~
 MaximumTransmissionPower,
~~MaxPRACH-MidambleShift,~~
~~MaximumUL-EbN0,~~
~~Maximum-DL-PowerCapability,~~
~~MeasuredCellInfo,~~
 MeasurementCharacteristics,
 MeasurementID,
 MeasurementType,
~~MessagePartScramblingCode,~~
 MidambleShift,
~~Midambleshift,~~
 MinUL-ChannelisationCodeLength,
 MinimumSpreadingFactor,
~~MinimumUL-EbN0,~~
 NodeB-CommunicationContextID,
 NumberOfChannelElements,
~~Offset,~~
 PCCPCH-Power,
~~PCCPCH-TimeSloti,~~
~~PCH-Power,~~
~~PICH-Information,~~
~~PICH-Power,~~
~~PRACH-Midamble,~~
 PSCH-Power,
~~PSCHandPCCPCH-Allocation,~~
~~PSCHandPCCPCH-TimeSlotK,~~

PSCH-TimeSlot,
~~PUSCH,~~
 PagingIndicatorLength,
~~PatternDuration,~~
 PayloadCRC-PresenceIndicator,
PICH-Mode,
~~PilotBitsUsedIndicator,~~
 PowerControlMode,
 PowerOffset,
 PowerResumeMode,
 PreambleScramblingCode,
 PreambleSignatures,
 PrimaryCPICH-Power,
~~PrimarySCH-Power,~~
 PrimaryScramblingCode,
~~Primary-ScramblingCode,~~
 PropagationDelay,
 PunctureLimit,
 RACH-SlotFormat,
 RACH-SubChannelNumbers,
 RLC-Mode,
 RL-ID,
~~RL-Information,~~
~~RL-InformationItem,~~
~~RL-InformationItem-RL-SetupReqTDD,~~
~~RL-InformationList-DMeasureRequest,~~
~~RL-ReconfigurationFailure-RL-ReconfFailItem,~~
~~RadioLinkInformation-RL-ReconfReqTDD,~~
 RepetitionLength,
 RepetitionPeriod,
 ReportCharacteristics,
~~ResourceOperationState,~~
 ResourceOperationalState,
 SAI,
 SFN,
SIB-DeletionIndicator,
SIB-Originator,
~~SIB-SG-POS,~~
~~SIB-SG-REP,~~
 SSDT-CellIdentity,
 SSDT-CellIdentityLength,
~~SSDT-Cell-IDLength,~~
 SSDT-Indication,
 SSDT-SupportIndicator,
 STTD-Indicator,
~~S-CCPCH-Offset,~~
~~S-CCPCH-Power,~~
 S-FieldLength,
 ScramblingCode,
 ScramblingCodeChange,
ScramblingCodeWord,
 SecondaryCCPCH-SlotFormat,
 SecondaryCPICH-Power,

```

SecondarySCH-Power,
SegmentType,
ShutdownTimer,
SyncCase-CellsetupReqTDD,
SynchronisationMethod,
TDDChipOffset,
TDD-ChannelisationCode,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TSTD-Indicator,
T-Cell,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionGapDistance,
TransmissionGapPeriod,
TransmitGapLength,
TransmissionDiversityApplied,
TransmitDiversityIndication,
TransmitGapPositionMode,
TransportFormatCombinationSet,
TransportFormatSet,
TransportLayerAddress,
UARFCN,
C-ID,
UL-CCTrCHInformation,
UL-CCTrCH-ID,
UL-DPCCH-SlotFormat,
UL-FP-Mode,
UL-InterferenceLevel,
UL-PunctureLimit,
UL-ScramblingCode,
UL-plinkEbNo
FROM NBAP-IEs

ProtocolExtensionContainer{},
PrivateExtensionContainer{},
ProtocolIE-Container{},
ProtocolIE-ContainerList{},
NBAP-PROTOCOL-IES,
NBAP-PROTOCOL-EXTENSION,
NBAP-PRIVATE-EXTENSION
FROM NBAP-Containers

-- FB to be done 222
maxIB,
maxIBSEG,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,

```

~~id-AICH-Information-ResourceStatIndItem,~~
~~id-AICH-ParametersList-CTCHreconf-Req-FDD,~~
~~id-AICH-ParametersListItem,~~
~~id-AllowedSlotFormatInformationList-CTCHreconf-Req-FDD,~~
~~id-AllowedSlotFormatInformationList-CTCHsetup-Req-FDD,~~
~~id-All-RLItem-PC,~~
~~id-All-RLItem-Rep,~~
~~id-All-RLItem-resp,~~
~~id-BCCH-ModificationTime,~~
~~id-BCH-InformationItem-Audit-Res,~~
~~id-BCH-InformationItem-ResourceStatInd,~~
~~id-BlockingPriorityIndicator,~~
~~id-CCTrCH-ParametersList,~~
~~id-CCTrCH-ParametersListItem,~~
~~id-CFN,~~
~~id-CRNC-Communication-Context-ID,~~
~~id-CRNC-CommunicationContextID,~~
~~id-CRNCCommunicationContextID,~~
~~id-Case1-Item-CellSetupReqTDD,~~
~~id-Case2andCase3-Item-CellSetupReqTDD,~~
~~id-Case3-Item-CellSetupReqTDD,~~
~~id-Cause,~~
~~id-Cell-Information-ResourceStatIndItem,~~
~~id-Cell-InformationItem-Audit-Res,~~
~~id-Cell-InformationList-Audit-Res,~~
~~id-CellItem-CMmeasureInitReq,~~
~~id-CellItem-CommonMeasurement-Rep,~~
~~id-CellItem-CommonMeasurement-Res,~~
~~id-Cell-Parameter-ID,~~
~~id-Cell-ParametersItem,~~
~~id-Cell-ParametersList,~~
~~id-Cell-ParametersItem-Audit-Req,~~
~~id-Cell-ParametersList-Audit-Req,~~
~~id-CellParameter,~~
~~id-CombiningItem-RL-Add-FailFDD,~~
~~id-CombiningItem-RL-Add-ResFDD,~~
~~id-CombiningItem-RL-Add-ResTDD,~~
~~id-CombiningItem-RL-SetupFailFDD,~~
~~id-CombiningItem-RL-setupResFDD,~~
~~id-CommonMeasurementObjectType,~~
~~id-CommonMeasurementObjectType-CMeasureInitReq,~~
~~id-CommonMeasurementObjectType-Rep,~~
~~id-CommonMeasurementObjectType-Res,~~
~~id-CommonMeasurementType,~~
~~id-CommonPhysicalChannelID,~~
~~id-CommonPhysicalChannelType-CTCHsetup-Req-FDD,~~
~~id-CommonPhysicalChannelType-CTCHsetupReqTDD,~~
~~id-CommonPhysicalChannelType-CTCHsetup-Response,~~
~~id-CommonPhysicalChannelsToBeReconfigured-CTCHreconfReqTDD,~~
~~id-CommonTransportChannelsToBeReconfigured-CTCHreconfReqTDD,~~
~~id-CommonTransportChannelType-CTCHsetup-ReqTDD,~~
~~id-CommonTransportChannelType-CTCHsetup-Resp,~~
~~id-CommunicationControlPort-InformationItem-Audit-Res,~~

~~id-CommunicationControlPort-InformationList-Audit-Res,~~
 id-CommunicationControlPortID,
 id-CommunicationControlPortInformation-ResourceStatIndItem,
~~id-CommunicationControlPortInformationList,~~
 id-CompressedModeMethod,
 id-ConfigurationGenerationID,
~~id-CriticalityDiagnostic,~~
~~id-DCH-Add-RL-ReconfPrepFDDItem,~~
 id-DCH-Add-RL-ReconfPrepTDDItem,
 id-DCH-Add-RL-ReconfReadyItem,
 id-DCH-Add-RL-ReconfReqFDDItem,
~~id-DCH-Add-RL-ReconfReqTDDItem,~~
 id-DCH-AddItem-RL-ReconfResp,
 id-DCH-AddList-RL-ReconfPrepFDD,
 id-DCH-AddList-RL-ReconfPrepTDD,
~~id-DCH-AddList-RL-ReconfReadyItem,~~
 id-DCH-AddList-RL-ReconfReqFDD,
~~id-DCH-AddList-RL-ReconfReqFDDItem,~~
 id-DCH-AddList-RL-ReconfReqTDD,
~~id-DCH-AddList-RL-ReconfRespItem,~~
~~id-DCH-Delete-RL-ReconfPrepFDDItem,~~
~~id-DCH-Delete-RL-ReconfPrepTDDItem,~~
~~id-DCH-Delete-RL-ReconfReqFDDItem,~~
 id-DCH-Delete-RL-ReconfReqTDDItem,
 id-DCH-DeleteList-RL-ReconfPrepFDD,
 id-DCH-DeleteList-RL-ReconfPrepTDD,
 id-DCH-DeleteList-RL-ReconfReqFDD,
~~id-DCH-DeleteList-RL-ReconfReqFDDItem,~~
 id-DCH-DeleteList-RL-ReconfReqTDD,
 id-DCH-Information-RL-SetupReqFDDItem,
~~id-DCH-Information-RL-SetupReqTDDItem,~~
 id-DCH-InformationList-RL-SetupReqFDD,
~~id-DCH-InformationList-RL-SetupReq-FDDItem,~~
 id-DCH-InformationList-RL-SetupReqTDD,
~~id-DCH-InformationResponse-RL-SetupFailFDDItem,~~
~~id-DCH-InformationResponse-RL-setupResTDDItem,~~
~~id-DCH-InformationResponseListIE-RL-setupResTDD,~~
~~id-DCH-InformationResponseItem,~~
~~id-DCH-Modify-RL-ReconfPrepFDDItem,~~
~~id-DCH-Modify-RL-ReconfPrepTDDItem,~~
 id-DCH-Modify-RL-ReconfReadyItem,
 id-DCH-Modify-RL-ReconfReqFDDItem,
~~id-DCH-Modify-RL-ReconfReqTDDItem,~~
 id-DCH-ModifyItem-RL-ReconfResp,
 id-DCH-ModifyList-RL-ReconfPrepFDD,
 id-DCH-ModifyList-RL-ReconfPrepTDD,
~~id-DCH-ModifyList-RL-ReconfReadyItem,~~
 id-DCH-ModifyList-RL-ReconfReqFDD,
~~id-DCH-ModifyList-RL-ReconfReqFDDItem,~~
 id-DCH-ModifyList-RL-ReconfReqTDD,
~~id-DCH-ModifyList-RL-ReconfRespItem,~~
~~id-DL-CCTrCH-Information-RL-ReconfPrepTDDItem,~~
 id-DL-CCTrCH-Information-RL-ReconfReqTDDItem,

~~id-DL-CCTrCH-Information-RL-SetupReqTDDItem,~~
 id-DL-CCTrCH-InformationItem,
~~id-DL-CCTrCH-InformationList-RL-Add-ReqTDD,~~
 id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationList-RL-ReconfReqTDD,
 id-DL-CCTrCH-InformationList-RL-SetupReqTDD,
~~id-DL-CCTrCH-InformationItem-RL-SetupReqTDD,~~
 id-DL-CCTrCHInformationItem,
 id-DL-CCTrCHInformationList,
~~id-DL-CodeInformation,~~
~~id-DL-CodeInformation-RL-ReconfPrepFDDItem,~~
~~id-DL-CodeInformation-RL-SetupReqFDDItem,~~
 id-DL-DPCH-Information-RL-ReconfPrepFDD,
 id-DL-DPCH-InformationList-RL-ReconfPrepTDDItem,
~~id-DL-DPCH-Information-RL-SetupReqTDDItem,~~
 id-DL-DPCH-InformationItem,
~~id-DL-DPCH-InformationList,~~
 id-DL-DPCH-InformationItem-RL-ReconfReqFDD,
 id-DL-DPCH-InformationItem-RL-SetupReqFDD,
~~id-DL-DPCH-InformationItem-RL-SetupReqTDD,~~
~~id-DL-DPCH-InformationList-RL-Add-ReqTDDItem,~~
~~id-DL-DPCH-InformationList-RL-SetupReqTDD,~~
 id-DL-FrameType,
 id-DL-ReferencePowerInformationList-PCItemItem,
 id-DSCH-AddItem-RL-ReconfPrepFDD,
 id-DSCH-AddItem-RL-ReconfReqFDD,
 id-DSCH-DeleteItem-RL-ReconfPrepFDD,
 id-DSCH-DeleteItem-RL-ReconfReqFDD,
 id-DSCH-ID,
~~id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,~~
~~id-DSCH-information-AddList-RL-ReconfPrepTDD,~~
~~id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,~~
 id-DSCH-Information-RL-SetupReqFDDItem,
 id-DSCH-InformationList-RL-SetupReqFDD,
~~id-DSCH-InformationList-RL-SetupReqTDD,~~
~~id-DSCH-InformationList-RL-SetupReq-FDDItem,~~
~~id-DSCH-InformationResponseList-RL-SetupFailFDDItem,~~
~~id-DSCH-InformationResponseList-RL-Add-RespTDDItem,~~
~~id-DSCH-InformationResponseList-RL-setupResFDDItem,~~
~~id-DSCH-InformationResponseListIE-RL-setupResTDD,~~
 id-DSCH-InformationResponse-RL-SetupFailFDDItem,
~~id-DSCH-InformationResponse-RL-setupResFDDItem,~~
 id-DSCH-ModifyItem-RL-ReconfPrepFDD,
~~id-DSCH-ModifyList-RL-ReconfReqTDD,~~
~~id-DSCH-AddList-RL-ReconfReqTDD,~~
~~id-DSCH-DeleteList-RL-ReconfReqTDD,~~
~~id-DSCH-ModifyList-RL-ReconfReadyItem,~~
~~id-DSCH-ModifyList-ReconfRespItem,~~
 id-DSCH-ModifyItem-RL-ReconfReqFDD,
~~id-DSCH-SetupList-RL-ReconfReadyItem,~~
~~id-DSCH-SetupList-RL-ReconfRespItem,~~
~~id-DSCH-TFCS,~~
 id-DedicatedMeasurementObjectType,

~~id-DedicatedMeasurementObjectType-Req,~~
~~id-DedicatedMeasurementObjectType-Rep,~~
~~id-DedicatedMeasurementObjectType-Resp,~~
 id-DedicatedMeasurementType,
 id-FACH-Information-ResourceStatIndItem,
~~id-FACH-InformationItem-Audit-Res,~~
 id-FACH-ListItem,
 id-FACH-ParametersList-CTCHreconf-Req-FDD,
 id-FACH-ParametersList-CTCHreconf-Req-TDD,
~~id-FACH-ParametersList-CTCHSetupReqTDD,~~
~~id-FACH-ParametersList-CTCHSetupReqFDDItem,~~
~~id-FACH-ParametersList-CTCHSetup-RespItem,~~
~~id-FACH-ParametersListItem-CTCHreconf-Req-FDD,~~
~~id-FACH-ParametersListItem-CTCHreconf-Req-TDD,~~
~~id-FACH-ParametersListItem-CTCHSetup-Req-FDD,~~
~~id-FACH-ParametersListItem-CTCHSetup-Response,~~
~~id-CapStartingSlotNumber,~~
 id-IndicationType,
~~id-IndicationType-ResourceStatInd,~~
~~id-IndividualRLItem-PC,~~
 id-Local-Cell-Information-ResourceStatIndItem,
 id-Local-CellInformation-ResourceStatIndItem,
 id-LocalCell-ID,
 id-LocalCell-InformationItem-Audit-Res,
 id-LocalCell-InformationList-Audit-Res,
 id-MIB-SegmentInformationItem,
 id-MIB-SegmentInformationList,
~~id-MIB-SIB-InformationList-SystemInfoUpdate,~~
~~id-MIB-SIB-InformationList-SystemInfoUpdateItem,~~
 id-MaximumTransmissionPower,
~~id-MeasuredCellInfo,~~
 id-MeasurementCharacteristics,
 id-MeasurementID,
 id-MeasurementType,
 id-NeighbouringFDD-Cell-InformationItem,
 id-NeighbouringTDD-Cell-InformationItem,
 id-NodeB-CommunicationContextID,
~~id-No-Delition-SystemInfoUpdateItem,~~
~~id-No-FailureItem-ResourceStatInd,~~
~~id-Non-CombiningItem-RL-Add-FailFDD,~~
~~id-Non-CombiningItem-RL-Add-ResFDD,~~
~~id-Non-CombiningItem-RL-Add-ResTDD,~~
~~id-Non-CombiningItem-RL-SetupFailFDD,~~
~~id-Non-CombiningItem-RL-setupResFDD,~~
~~id-PCCPCH-Information-CellreconfReq,~~
~~id-PCCPCH-Information-CellsetupReqTDD,~~
~~id-P-CCPCH-InformationItem-Audit-Res,~~
~~id-P-CCPCH-InformationItem-ResourceStatInd,~~
 id-PCH-Information-ResourceStatIndItem,
 id-PCH-InformationItem-Audit-Res,
 id-PCH-ListItem,
~~id-PCH-ParameterItem-CTCHReconfReqTDD,~~
 id-PCH-Parameters-CTCHreconf-Req-FDD,

id-PCH-Parameters-CTCHsetup-RespItem,
id-PCH-ParametersItem-CTCHsetup-Req-FDD,
 id-PCH-ParametersList,
id-PCH-ParametersList-CTCHSetupReqTDD,
 id-PCH-ParametersListItem,
id-P-CPICH-InformationItem-Audit-Res,
id-P-CPICH-InformationItem-ResourceStatInd,
id-PICH-InformationItem-Audit-Res,
id-PICH-InformationItem-ResourceStatInd,
 id-PICH-Parameters-CTCHreconf-Req-FDD,
id-PICHParametersItem-CTCHReconfReqTDD,
id-PRACH-InformationItem-ResourceStatInd,
id-PRACH-InformationItem-Audit-Res,
id-PRACH-parametersItem-CTCHsetup-Req-FDD,
id-PRACH-ParametersList-CTCHreconf-Req-FDD,
id-PRACH-parameters-Item-CTCHsetupReqTDD,
~~id-PRACH-ParametersListItem,~~
id-PSCH-Information-CellreconfReq,
id-PSCH-Information-CellsetupReqTDD,
id-PSCH-InformationItem-Audit-Res,
id-PSCH-InformationItem-ResourceStatInd,
~~id-PSCHandPCCPCH-Information,~~
 id-PUSCH-ListItem,
~~id-PatternDuration,~~
 id-PowerControlMode,
 id-PowerResumeMode,
 id-PrimaryCCPCH-Information-Cellreconf-Req,
id-PrimaryCCPCH-Information-Cellsetup-Req,
id-PrimaryCPICH-Information-Cellreconf-Req,
id-PrimaryCPICH-Information-Cellsetup-Req,
id-PrimarySCH-Information-Cellreconf-Req,
id-PrimarySCH-Information-Cellsetup-Req,
 id-PrimaryScramblingCode,
 id-ProcedureScopeType-PC,
id-P-SCH-InformationItem-Audit-Res,
id-P-SCH-InformationItem-ResourceStatInd,
 id-RACH-Information-ResourceStatIndItem,
 id-RACH-InformationItem-Audit-Res,
id-AICH-InformationItem-Audit-Res,
id-RACHItem-CMmeasureInitReq,
id-RACHItem-CommonMeasurement-Rep,
id-RACHItem-CommonMeasurement-Res,
id-RACH-Parameters-CTCHsetup-RespItem,
id-RACH-ParameterList-CTCHSetupReqTDD,
id-RACH-ParametersItem-CTCHsetup-Req-FDD,
 id-RL-ID,
 id-RL-Information,
 id-RL-Information-DMeasureReportItem,
 id-RL-Information-DMeasureRequestItem,
 id-RL-Information-DMeasureResponseItem,
id-RL-Information-RL-Add-ReqTDD,
id-RL-Information-RL-Add-RespTDD,
 id-RL-Information-RL-ReconfPrepFDDItem,

id-RL-Information-RL-SetupReqFDDItem,
id-RL-Information-RL-setupResTDD,
~~id-RL-InformationItem,~~
 id-RL-InformationItem-RL-SetupReqTDD,
~~id-RL-InformationList,~~
id-RL-InformationList-DMeasureReqItem,
~~id-RL-InformationList-RL-FailInd,~~
~~id-RL-InformationList-RL-FailIndItem,~~
~~id-RL-InformationList-RL-Add-ReqFDD,~~
~~id-RL-InformationList-RL-Add-ReqFDDItem,~~
~~id-RL-informationList-RL-Del-Req,~~
~~id-RL-informationList-RL-Del-ReqItem,~~
~~id-RL-InformationList-RL-ReconfReqFDD,~~
~~id-RL-InformationList-RL-RestoreInd,~~
~~id-RL-InformationList-RL-RestoreIndItem,~~
 id-RL-InformationList-RL-SetupReqFDD,
 id-RL-InformationResponse-RL-setupResFDDItem,
 id-RL-InformationResponseItem-RL-ReconfResp,
 id-RL-InformationResponseList-RL-ReconfReady,
 id-RL-InformationResponseList-RL-ReconfReadyItem,
 id-RL-InformationResponseList-RL-ReconfResp,
 id-RL-InformationResponseList-RL-setupResFDD,
 id-RL-InformationResponseList-RL-setupResTDD,
id-RLItem-DMeasureReq,
id-RLItem-Rep,
id-RLItem-Resp,
 id-RL-ReconfigurationFailure-RL-ReconfFailItem,
 id-RL-ReconfigurationFailureList-RL-ReconfFail,
~~id-RL-ResponseInformation,~~
~~id-RL-ResponseInformationItem-RL-Add-ResFDDItem,~~
~~id-RL-ResponseInformationList-RL-Add-ResFDD,~~
~~id-RL-informationItem,~~
~~id-RL-informationList,~~
 id-RadioLinkInformation-RL-ReconfPrepFDDItem,
 id-RadioLinkInformation-RL-ReconfPrepTDD,
 id-RadioLinkInformation-RL-ReconfReqTDD,
 id-RadioLinkInformationList-RL-ReconfPrepFDD,
 id-ReportCharacteristics,
 id-SFN,
 id-SIB-SegmentInformationItem,
 id-SIB-SegmentInformationList,
id-SN,
id-S-CCPCH-InformationItem-Audit-Res,
id-S-CCPCH-InformationItem-ResourceStatInd,
id-S-CPICH-InformationItem-Audit-Res,
id-S-CPICH-InformationItem-ResourceStatInd,
id-SCH-InformationItem-Audit-Res,
id-SCH-InformationItem-ResourceStatInd,
 id-ScramblingCodeChange,
id-SecondaryCCPCHListItem-CTCHReconfReqTDD,
id-SecondaryCCPCHListItem-CTCHsetupReqTDD,
 id-Secondary-CCPCHListItem,
id-Secondary-CCPCH-parametersItem-CTCHsetup-Req-FDD,

~~id-Secondary-CCPCH-parametersItem-CTCHsetupReqTDD,~~
~~id-Secondary-CCPCH-parametersIE-CTCHReconfReqTDD,~~
~~id-SecondaryCPICH-Information-Cellreconf-Req,~~
~~id-SecondaryCPICH-Information-Cellsetup-Req,~~
~~id-SecondarySCH-Information-Cellreconf-Req,~~
~~id-SecondarySCH-Information-Cellsetup-Req,~~
~~id-SegmentInformationList-SystemInfoUpdateItem,~~
~~id-ServiceImpactingItem-ResourceStatInd,~~
~~id-ShutdownTimer,~~
~~id-S-SCH-InformationItem-Audit-Res,~~
~~id-S-SCH-InformationItem-ResourceStatInd,~~
~~id-Successful-RL-InformationResponse-RL-SetupFailFDDItem,~~
~~id-Successful-RL-InformationResponseItem,~~
~~id-Successful-RL-InformationResponseList,~~
~~id-Successful-RL-InformationResponseList-RL-Add-FailFDD,~~
~~id-Successful-RL-InformationResponse-RL-Add-FailFDDItem,~~
~~id-Successful-RL-InformationResponseList-RL-SetupFailFDD,~~
~~id-SynchronisationMethod,~~
~~id-SyncCase,~~
~~id-T-Cell,~~
~~id-TGP1,~~
~~id-TGP2,~~
~~id-TGL,~~
~~id-TGD,~~
~~id-TDDChipOffset,~~
~~id-TimeSlotConfigurationItem,~~
~~id-TimeSlotConfigurationList-CellreconfReq,~~
~~id-TimeSlotConfigurationList-CellsetupReqTDD,~~
~~id-TransmissionDiversityApplied,~~
~~id-TransmissionGapDistance,~~
~~id-TransmissionGapPeriod,~~
~~id-TransmitGapLength,~~
~~id-TransmitGapPositionMode,~~
~~id-UARFCN,~~
~~id-C-ID,~~
~~id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem,~~
~~id-UL-CCTrCH-Information-RL-ReconfReqTDDItem,~~
~~id-UL-CCTrCH-Information-RL-SetupReqTDDItem,~~
~~id-UL-CCTrCH-InformationItemIE,~~
~~id-UL-CCTrCH-InformationItem-RL-SetupReqTDD,~~
~~id-UL-CCTrCH-InformationList-RL-Add-ReqTDD,~~
~~id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,~~
~~id-UL-CCTrCH-InformationList-RL-ReconfReqTDD,~~
~~id-UL-CCTrCH-InformationList-RL-SetupReqTDD,~~
~~id-UL-CCTrCHInformation,~~
~~id-UL-CCTrCHInformationList,~~
~~id-UL-DeltaEb-No,~~
~~id-UL-DeltaEb-NoAfter,~~
~~id-UL-DL-CompressedModeSeletion,~~
~~id-UL-DPCH-Information-RL-ReconfPrepFDD,~~
~~id-UL-DPCH-InformationList-RL-ReconfPrepTDDItem,~~
~~id-UL-DPCH-Information-RL-SetupReqTDDItem,~~
~~id-UL-DPCH-InformationItem-RL-ReconfReqFDD,~~

id-UL-DPCH-InformationItem-RL-SetupReqFDD,
 id-UL-DPCH-InformationItemIE,
id-UL-DPCH-InformationItem-RL-SetupReqTDD,
id-UL-DPCH-InformationList,
id-UL-DPCH-InformationList-RL-Add-ReqTDDItem,
id-UL-DPCH-InformationList-RL-SetupReqTDD,
 id-USCH-Information-ResourceStatIndItem,
 id-USCH-InformationItem,
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,
id-USCH-Information-AddList-RL-ReconfPrepTDD,
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
id-USCH-InformationList-RL-SetupReqTDD,
id-USCH-InformationResponseListIE-RL-setupResTDD,
id-USCH-InformationResponseList-RL-Add-RespTDDItem,
id-USCH-ListItem-CTCHsetup-Req-TDD,
id-USCH-ModifyList-RL-ReconfReqTDD,
id-USCH-AddList-RL-ReconfReqTDD,
id-USCH-DeleteList-RL-ReconfReqTDD,
id-USCH-ModifyList-RL-ReconfReadyItem,
id-USCH-ModifyList-RL-ReconfRespItem,
id-USCH-SetupList-RL-ReconfReadyItem,
id-USCH-SetupList-RL-ReconfRespItem,
 id-Unsuccessful-RL-InformationResponse,
 id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem,
 id-Unsuccessful-RL-InformationResponseItem,
 id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD,
 id-Unsuccessful-RL-InformationResponseList,
id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDD,
id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem,
 id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD,

maxAICHCell,
 maxCCPinNodeB,
 maxCellinNodeB,
 maxFACHCell,
 maxLocalCellinNodeB,
 maxMIBSEG,
 maxPCHCell,
 maxPCHinNodeB,
 maxRACHCell,
 maxSF,
 maxSIBSEG,
 maxUCIDinNodeB,
 maxUSCHCell,
~~maxnoCCTrCHs,~~
 maxnoofCCTrCHs,
 maxnoofDCHs,
 maxnoofDLCodes,
 maxnoofDPCHs,
 maxnoofDSCHs,
 maxnoofFACHCell,
 maxnoofFACHs,
 maxnoofFDDNeighbours,

```

maxnoofPCHs,
maxnoofPRACHs,
maxnoofPUSHs,
maxnoofRL-1,
maxnoofRL-2,
maxnoofRLs,
maxnoofSCCPCHs,
maxnoofTDDNeighbours,
maxnoofUSCHs
FROM NBAP-Constants;

CCTrCHIE-ContainerList { NBAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxnoofCCTrCHs, { IEsSetParam } }
DPCH-IE-ContainerList { NBAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxnoofDPCHs, { IEsSetParam } }

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
--
-- *****

CommonTransportChannelSetupRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{CommonTransportChannelSetupRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer    {{CommonTransportChannelSetupRequestFDD-Extensions}}    OPTIONAL,
    ...
}

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY rejectignore      TYPE C-ID          PRESENCE mandatory } |
    { ID id-ConfigurationGenerationID CRITICALITY rejectignore TYPE ConfigurationGenerationID PRESENCE mandatory } |
    { ID id-CommonPhysicalChannelType-CTCHsetup-Req-FDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCHsetup-Req-FDD PRESENCE mandatory }
},
...
}

CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCHsetup-Req-FDD ::= ENUMERATED-CHOICE {
    secondary-CCPCH-parameters-CTCHsetup-Req-FDD Secondary-CCPCH-parameters-CTCHsetup-Req-FDD,
    pRACH-parameters-CTCHsetup-Req-FDD PRACH-parameters-CTCHsetup-Req-FDD,
    ...
}

Secondary-CCPCH-parameters-CTCHsetup-Req-FDD ::= ProtocolIE-Container {{ Secondary-CCPCH-parametersItemIE-CTCHsetup-Req-FDD }}

Secondary-CCPCH-parametersItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCH-parametersItem-CTCHsetup-Req-FDD CRITICALITY reject TYPE Secondary-CCPCH-parametersItem-CTCHsetup-Req-FDD
    PRESENCE mandatory },
    ...
}

```

```

Secondary-CCPCH-parametersItem-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-SCCPCH-Offset                FDD-SCCPCH-Offset,
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    tFCS                             TFCS,
    secondaryCCPCH-SlotFormat        SecondaryCCPCH-SlotFormat,
    pilotBitsUsedIndicator           PilotBitsUsedIndicator,
    multiplexingPosition             MultiplexingPosition,
    sTTD-Indicator                   STTD-Indicator,
    fACH-ParametersList          FACH-ParametersList-CTCHsetup-Req-FDD          OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    pCH-Parameters              PCH-Parameters-CTCHsetup-Req-FDD          OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    pICH-Parameters            PICH-Parameters-CTCHsetup-Req-FDD,
    commonTransportChannelType   CommonTransportChannelType-CTCHsetup-Req-FDD
}

iE-Extensions                 ProtocolExtensionContainer { {Secondary-CCPCH-parametersItem-CTCHsetup-Req-FDD-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCH-parametersItem-CTCHsetup-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CommonTransportChannelType-CTCHsetup-Req-FDD ::= ENUMERATED {
  fACH-ParametersList          FACH-ParametersList-CTCHsetup-Req-FDD,
  pCH-Parameters            PCH-Parameters-CTCHsetup-Req-FDD,
  bothCH-Parameters        BothCH-Parameters-CTCHsetup-Req-FDD
}

BothCH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
  fACH-ParametersList        FACH-ParametersList-CTCHsetup-Req-FDD,
  pCH-Parameters            PCH-Parameters-CTCHsetup-Req-FDD
}

FACH-ParametersList-CTCHsetup-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
  ProtocolIE-Container { { FACH-ParametersListItemIE-CTCHsetup-Req-FDD } }

FACH-ParametersListItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersListItem-CTCHsetup-Req-FDD  CRITICALITY ignorereject TYPE FACH-ParametersListItem-CTCHsetup-Req-FDD PRESENCE mandatory
  },
  ...
}

FACH-ParametersListItem-CTCHsetup-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
  FACH-ParametersListItem-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonTransportChannelID   CommonTransportChannelID,
    transportFormatSet        TransportFormatSet,
    toAWS                     ToAWS,
    toAWE                     ToAWE,
    maxFACH-Power             DL-Power,
    iE-Extensions             ProtocolExtensionContainer { { FACH-ParametersListItem-CTCHsetup-Req-FDD-ExtIEs } } OPTIONAL,

```

```

...
}

FACH-ParametersListItem-CTCHsetup-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCH-Parameters-CTCHsetup-Req-FDD ::= ProtocolIE-Container {{ PCH-ParametersItemIE-CTCHsetup-Req-FDD }}

PCH-ParametersItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
... { ID id-PCH-ParametersItem-CTCHsetup-Req-FDD CRITICALITY reject TYPE PCH-ParametersItem-CTCHsetup-Req-FDD PRESENCE mandatory },
...
}

PCH-ParametersItem-CTCHsetup-Req-FDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
transportFormatSet TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE,
pCH-Power DL-Power,
pICH-Parameters PICH-Parameters-CTCHsetup-Req-FDD
iE-Extensions ProtocolExtensionContainer { { PCH-ParametersItem-CTCHsetup-Req-FDD-ExtIEs } } OPTIONAL,
...
}

PCH-ParametersItem-CTCHsetup-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PICH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
dl-ScramblingCode DL-ScramblingCode,
fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
pICH-Power DL-Power,
pICH-Mode PICH-Mode,
sTTD-Indicator STTD-Indicator,
iE-Extensions ProtocolExtensionContainer { { PICH-Parameters-CTCHsetup-Req-FDD-ExtIEs } } OPTIONAL,
...
}

PICH-Parameters-CTCHsetup-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PRACH-parameters-CTCHsetup-Req-FDD ::= ProtocolIE-Container {{ PRACH-parametersItemIE-CTCHsetup-Req-FDD }}

PRACH-parametersItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
... { ID id-PRACH-parametersItem-CTCHsetup-Req-FDD CRITICALITY reject TYPE PRACH-parametersItem-CTCHsetup-Req-FDD PRESENCE mandatory },
...
}

PRACH-parametersItem-CTCHsetup-Req-FDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,

```

```

tFCS                TFCS,
preambleSignatures  PreambleSignatures,
scramblingCodeWord  ScramblingCodeWord,
allowedSlotFormatInformationList AllowedSlotFormatInformationList-CTCHsetup-Req-FDD,
rACH-SubChannelNumbers RACH-SubChannelNumbers,
ul-punctureLimit     PunctureLimit,
rACH-Parameters      RACH-Parameters-CTCHsetup-Req-FDD,
aICH-Parameters      AICH-Parameters-CTCHsetup-Req-FDD,
iE-Extensions        ProtocolExtensionContainer { { PRACH-parametersItem-CTCHsetup-Req-FDD-ExtIEs } } OPTIONAL,
...
}

PRACH-parametersItem-CTCHsetup-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

AllowedSlotFormatInformationList-CTCHsetup-Req-FDD ::= SEQUENCE (SIZE (1..maxSF)) OF ProtocolIE-Container {{AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD}}

AllowedSlotFormatInformationItemIE-CTCHsetup-Req-FDD-NBAP-PROTOCOL-IES ::= {
{ ID id-AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD
CRITICALITY ignore TYPE AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD PRESENCE mandatory },
...}

AllowedSlotFormatInformationItem-CTCHsetup-Req-FDD ::= SEQUENCE {
rACHSlotFormat RACH-SlotFormat,
iE-Extensions ProtocolExtensionContainer { { AllowedSlotFormatInformationList-CTCHsetup-Req-FDD-ExtIEs } } OPTIONAL,
...
}

AllowedSlotFormatInformationList-CTCHsetup-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

RACH-Parameters-CTCHsetup-Req-FDD ::= ProtocolIE-Container { { RACH-ParametersItemIE-CTCHsetup-Req-FDD } }

RACH-ParametersItemIE-CTCHsetup-Req-FDD NBAP-PROTOCOL-IES ::= {
{ ID id-RACH-ParametersItem-CTCHsetup-Req-FDD CRITICALITY reject TYPE RACH-ParametersItem-CTCHsetup-Req-FDD PRESENCE mandatory },
...
}

RACH-ParametersItem-CTCHsetup-Req-FDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
transportFormatSet TransportFormatSet,
iE-Extensions ProtocolExtensionContainer { { RACH-ParametersItem-CTCHsetup-Req-FDD-ExtIEs } } OPTIONAL,
...
}

RACH-ParametersItem-CTCHsetup-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```



```

AICH-Parameters-CTCHsetup-Req-FDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    dl-ScramblingCode                DL-ScramblingCode,
    aICH-TransmissionTiming          AICH-TransmissionTiming,
    fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    aICH-Power                        DL-Power,
    sTTD-Indicator                    STTD-Indicator,
    iE-Extensions                    ProtocolExtensionContainer { { AICH-Parameters-CTCHsetup-Req-FDD-ExtIEs } } OPTIONAL,
    ...
}

AICH-Parameters-CTCHsetup-Req-FDD-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 rejectignore      TYPE C-ID                PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY rejectignore      TYPE ConfigurationGenerationID PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCHsetupReqTDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCHsetupReqTDD PRESENCE
    mandatory
    }|
    { ID id-CommonTransportChannelType-CTCHsetup-ReqTDD CRITICALITY ignore TYPE CommonTransportChannelType-CTCHsetupReqTDD PRESENCE
    mandatory
    },
    ...
}

CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCHsetupReqTDD ::= CHOICEENUMERATED {
    secondary-CCPCH-parameters-CTCHsetupReqTDD Secondary-CCPCH-parameters-CTCHsetupReqTDD,
    pRACH-parameters-CTCHsetupReqTDD PRACH-parameters-CTCHsetupReqTDD,
    ...
}

Secondary-CCPCH-parameters-CTCHsetupReqTDD ::= ProtocolIE-Container {{Secondary-CCPCH-parametersItemIE-CTCHsetupReqTDD }}

Secondary-CCPCH-parametersItemIE-CTCHsetupReqTDD NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-Secondary-CCPCH-parametersItem-CTCHsetupReqTDD CRITICALITY reject TYPE Secondary-CCPCH-parametersItem-CTCHsetupReqTDD PRESENCE
    mandatory },
    ...
}

```

```

Secondary-CCPCH-parametersItem-CTCHsetupReqTDD ::= SEQUENCE {
    cTrCH-ID          CTrCH-ID,
    tFCS              TFCS,
    secondaryCCPCH    SecondaryCCPCHList-CTCHsetupReqTDD,
    iE-Extensions     ProtocolExtensionContainer { { Secondary-CCPCH-parametersItem-CTCHsetupReqTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

Secondary-CCPCH-parametersItem-CTCHsetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

SecondaryCCPCHList-CTCHsetupReqTDD ::= ProtocolIE-Container {{SecondaryCCPCHList-IEs-CTCHsetupReqTDD}}

```

```

SecondaryCCPCHList-IEs-CTCHsetupReqTDD NBAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCCPCHListItem-CTCHsetupReqTDD CRITICALITY reject TYPE SecondaryCCPCHListItem-CTCHsetupReqTDD PRESENCE mandatory },
    ...
}

```

```

SecondaryCCPCHListItem-CTCHsetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofSCCPCHs)) OF
    ProtocolIE-Container {{SecondaryCCPCHList-CTCHsetupReqTDDItemIE}}

```

```

SecondaryCCPCHList-CTCHsetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCCPCHList-CTCHsetupReqTDDItem CRITICALITY ignore TYPE SecondaryCCPCHList-CTCHsetupReqTDDItem PRESENCE mandatory
    },
    ...
}

```

```

SecondaryCCPCHList-CTCHsetupReqTDDItem ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    tdd-ChannelisationCode     TDD-ChannelisationCode,
    timeslot                    TimeSlot,
    burstType                    BurstType,
    midambleShift                MidambleShift,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    repetitionPeriod            RepetitionPeriod,
    repetitionLength            RepetitionLength,
    s-CCPCH-Power                DL-Power,
    tSTD-Indicator                TSTD-Indicator,
    iE-Extensions                ProtocolExtensionContainer { { SecondaryCCPCHList-CTCHsetupReqTDDItem-ExtIEs } } OPTIONAL,
    ...
}

```

```

SecondaryCCPCHList-CTCHsetupReqTDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
PRACH-parameters-CTCHsetupReqTDD ::= ProtocolIE-Container {{PRACH-parameters-ItemIE-CTCHsetupReqTDD}}
```

```
PRACH-parameters-ItemIE-CTCHsetupReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-parameters-Item-CTCHsetupReqTDD CRITICALITY reject TYPE PRACH-parameters-Item-CTCHsetupReqTDD PRESENCE mandatory },
  ...
}
```

```
PRACH-parameters-Item-CTCHsetupReqTDD
```

```
PRACH-parameters-CTCHsetupReqTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  timeslot TimeSlot,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  burstType BurstType,
  maxPRACH-MidambleShift MaxPRACH-MidambleShift OPTIONAL,
  PRACH-Midamble PRACH-Midamble,
  commonTransportChannelType CommonTransportChannelType-CTCHsetupReqTDD,
  rACH RACH-CTCHsetupReqTDD
  iE-Extensions ProtocolExtensionContainer { { PRACH-parameters-Item-CTCHsetupReqTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
PRACH-parameters-Item-CTCHsetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
CommonTransportChannelType-CTCHsetupReqTDD ::= CHOICE {
  fACHParameters FACH-Parameters-CTCHSetupReqTDD,
  pCHParameters PCH-Parameters-CTCHSetupReqTDD,
  fachAndPCHParameters FachAndPCHParameters,
  rach-Parameters RACH-Parameters-CTCHSetupReqTDD,
  ...
}
```

```
CommonTransportChannelType-CTCHsetupReqTDD ::= ENUMERATED {
  fACH-ParametersList FACH-ParametersList-CTCHsetupReqTDD,
  pCH-Parameters PCH-Parameters-CTCHsetupReqTDD,
  bothCH-Parameters BothCH-Parameters-CTCHsetupReqTDD
}
```

```
BothCH-Parameters-CTCHsetupReqTDD ::= SEQUENCE {
  fACH-ParametersList FACH-ParametersList-CTCHsetupReqFDD,
  pCH-Parameters PCH-Parameters-CTCHsetupReqFDD
}
```

```
FACH-ParametersList-CTCHsetupReqFDD ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
  ProtocolIE-Container {{FACH-ParametersList-CTCHsetupReqFDD-ItemIE}}
```

```
FACH-ParametersList-CTCHsetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersList-CTCHsetupReqFDDItem CRITICALITY ignore TYPE FACH-ParametersList-CTCHsetupReqFDDItem PRESENCE mandatory },
  ...
}
```

```
FACH-ParametersList-CTCHsetupReqFDDItem ::= SEQUENCE {
```

```

commonTransportChannelID CommonTransportChannelID,
dl-TransportFormatSet DL-TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE
}

PCH-ParametersList-CTCHsetupReqFDD ::= SEQUENCE (SIZE (1..maxnoofPCHs)) OF
ProtocolIE-Container {{PCH-ParametersList-CTCHsetupReqFDD-ItemIE}}

PCH-ParametersList-CTCHsetupReqFDDItemIE-NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersList-CTCHsetupReqFDDItem CRITICALITY ignore TYPE PCH-ParametersList-CTCHsetupReqFDDItem PRESENCE mandatory },
...
}

PCH-ParametersList-CTCHsetupReqFDDItem ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
dl-TransportFormatSet DL-TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE,
pICH-Parameters PICH-Parameters-CTCHsetupReqTDD
}

PICH-Parameters-CTCHsetup-Req-TDD ::= SEQUENCE {
CommonPhysicalChannelID CommonPhysicalChannelID,
tdd-ChannelisationCode TDD-ChannelisationCode,
timeSlot TimeSlot,
pICH-Power PICH-Power,
burstType BurstType OPTIONAL,
midambleshift Midambleshift,
tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
pagingIndicatorLength PagingIndicatorLength,
pICH-Power DL-Power
...
}

RACH-CTCHsetupReqTDD ::= SEQUENCE {
commontransportChannelID CommontransportChannelID
}

FachAndPCHParameters ::= SEQUENCE {
fACHParameters FACH-Parameters-CTCHSetupReqTDD,
pchParameters PCH-Parameters-CTCHSetupReqTDD,
iE-Extensions ProtocolExtensionContainer {{ FachAndPCHParameters-ExtIEs }} OPTIONAL,
...
}

FachAndPCHParameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-Parameters-CTCHSetupReqTDD ::= ProtocolIE-Container {{FACH-ParametersItemIE-CTCHSetupReqTDD }}

```

```

FACH-ParametersItemIE-CTCHSetupReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersList-CTCHSetupReqTDD CRITICALITY reject TYPE FACH-ParametersList-CTCHSetupReqTDD PRESENCE mandatory },
  ... }

FACH-ParametersList-CTCHSetupReqTDD ::= SEQUENCE (SIZE (1 .. maxnoofFACHs)) OF FACH-ParameterItem-CTCHSetupReqTDD

FACH-ParameterItem-CTCHSetupReqTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  dl-TransportFormatSet TransportFormatSet,
  toAWS ToAWS,
  toAWE ToAWE,
  iE-Extensions ProtocolExtensionContainer {{FACH-ParameterItem-CTCHSetupReqTDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-ParameterItem-CTCHSetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCH-Parameters-CTCHSetupReqTDD ::= ProtocolIE-Container {{PCH-ParametersItemIE-CTCHSetupReqTDD }}

PCH-ParametersItemIE-CTCHSetupReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersList-CTCHSetupReqTDD CRITICALITY reject TYPE PCH-ParametersList-CTCHSetupReqTDD PRESENCE mandatory },
  ... }

PCH-ParametersList-CTCHSetupReqTDD ::= SEQUENCE (SIZE (1 .. maxnoofPCHs)) OF PCH-ParametersItem-CTCHSetupReqTDD

PCH-ParametersItem-CTCHSetupReqTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  dl-TransportFormatSet TransportFormatSet,
  toAWS ToAWS,
  toAWE ToAWE,
  pICH-Parameters PICH-Parameters-CTCHSetupReqTDD,
  iE-Extensions ProtocolExtensionContainer {{PCH-ParametersItem-CTCHSetupReqTDD-ExtIEs} } OPTIONAL,
  ...
}

PCH-ParametersItem-CTCHSetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-Parameters-CTCHSetupReqTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  timeSlot TimeSlot,
  burstType BurstType OPTIONAL,
  midambleShift MidambleShift,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  pagingIndicatorLength PagingIndicatorLength,
  pICH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer {{PICH-ParametersItem-CTCHSetupReqTDD-ExtIEs} } OPTIONAL,

```



```

-- One of the channels FACH or PCH or both must be present
pCH-Parameters          PCH-Parameters-CTCHsetup-Resp          OPTIONAL,
-- One of the channels FACH or PCH or both must be present
rACH-Parameters          RACH-Parameters-CTCHsetup-Resp,
bothCH-Parameters        BothCH-Parameters-CTCHsetup-Resp
iE-Extensions            ProtocolExtensionContainer { { CommonTransportChannelType-CTCHsetup-Resp-ExtIEs } } OPTIONAL,
...
}

CommonTransportChannelType-CTCHsetup-Resp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

BothCH-Parameters-CTCHsetup-Resp ::= SEQUENCE {
fACH-ParametersList      FACH-ParametersList-CTCHsetup-Resp,
pCH-Parameters          PCH-Parameters-CTCHsetupResp
}

FACH-ParametersList-CTCHsetup-Resp ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
ProtocolIE-Container { {FACH-ParametersList-CTCHsetup-RespItemIE} }

FACH-ParametersList-CTCHsetup-RespItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersList-CTCHsetup-RespItem CRITICALITY ignore TYPE FACH-ParametersList-CTCHsetup-RespItem PRESENCE mandatory },
  ...
}

FACH-ParametersList-CTCHsetup-RespItem ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
  SEQUENCE {
commonTransportChannelID      CommonTransportChannelID,
transportLayerAddress         TransportLayerAddress,
bindingID                     BindingID,
iE-Extensions                 ProtocolExtensionContainer { { FACH-ParametersList-CTCHsetup-RespItem-ExtIEs } } OPTIONAL,
...
  }

FACH-ParametersList-CTCHsetup-RespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCH-Parameters-CTCHsetup-Resp ::= ProtocolIE-Container { {PCH-Parameters-CTCHsetup-RespItemIE} }

PCH-Parameters-CTCHsetup-RespItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-Parameters-CTCHsetup-RespItem CRITICALITY ignore TYPE PCH-Parameters-CTCHsetup-RespItem PRESENCE mandatory },
...
}

PCH-Parameters-CTCHsetup-RespItem ::= SEQUENCE {
commonTransportChannelID      CommonTransportChannelID,
transportLayerAddress         TransportLayerAddress,
bindingID                     BindingID,
iE-Extensions                 ProtocolExtensionContainer { { PCH-Parameters-CTCHsetup-RespItem-ExtIEs } } OPTIONAL,
...
}

```

```

PCH-Parameters-CTCHsetup-RespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-Parameters-CTCHsetup-Resp ::= ProtocolIE-Container {{RACH-Parameters-CTCHsetup-RespItemIE}}

RACH-Parameters-CTCHsetup-RespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-Parameters-CTCHsetup-RespItem CRITICALITY ignore TYPE RACH-Parameters-CTCHsetup-RespItem PRESENCE mandatory },
    ...
}

PRACH-Parameters-CTCHsetup-RespItem ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    transportLayerAddress TransportLayerAddress,
    bindingID BindingID,
    iE-Extensions ProtocolExtensionContainer { { RACH-Parameters-CTCHsetup-RespItem-ExtIEs } } OPTIONAL,
    ...
}

RACH-Parameters-CTCHsetup-RespItem-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-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional }|
    { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic 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-ConfigurationGenerationID      CRITICALITY ignorereject      TYPE ConfigurationGenerationID      PRESENCE mandatory } |
    { ID id-FACH-ParametersList-CTCHreconf-Req-FDD CRITICALITY ignorereject      TYPE FACH-ParametersList-CTCHreconf-Req-FDD PRESENCE optional } |
    { ID id-PCH-Parameters-CTCHreconf-Req-FDD CRITICALITY ignorereject      TYPE PCH-Parameters-CTCHreconf-Req-FDD PRESENCE optional } |
    { ID id-PICH-Parameters-CTCHreconf-Req-FDD CRITICALITY ignorereject      TYPE PICH-Parameters-CTCHreconf-Req-FDD PRESENCE optional } |
    { ID id-PRACH-ParametersList-CTCHreconf-Req-FDD CRITICALITY ignorereject      TYPE PRACH-ParametersList-CTCHreconf-Req-FDD PRESENCE optional }
}

{ ID id-AllowedSlotFormatInformationList-CTCHreconf-Req-FDD CRITICALITY ignore TYPE AllowedSlotFormatInformationList-CTCHreconf-Req-FDD PRESENCE optional }
++
    { ID id-AICH-ParametersList-CTCHreconf-Req-FDD CRITICALITY ignorereject      TYPE AICH-ParametersList-CTCHreconf-Req-FDD PRESENCE optional },
    ...
}

CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-ParametersList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
ProtocolIE-Container {{FACH-ParametersListItemIE-CTCHreconf-Req-FDD}}

FACH-ParametersListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-ParametersListItem-CTCHreconf-Req-FDD CRITICALITY ignore TYPE FACH-ParametersListItem-CTCHreconf-Req-FDD PRESENCE mandatory },
    ...
}

FACH-ParametersListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    maxFACH-Power            DL-Power            OPTIONAL,
    toAWS                    ToAWS                OPTIONAL,
    toAWE                    ToAWE                OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { FACH-ParametersList-CTCHreconf-Req-FDD-ExtIEs } } OPTIONAL,
    ...
}

FACH-ParametersList-CTCHreconf-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Parameters-CTCHreconf-Req-FDD ::= SEQUENCE {

```

```

commonTransportChannelID CommonTransportChannelID,
pCH-Power DL-Power OPTIONAL,
toAWS ToAWS OPTIONAL,
toAWE ToAWE OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { PCH-Parameters-CTCHreconf-Req-FDD-ExtIEs } } OPTIONAL,
...
}

PCH-Parameters-CTCHreconf-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PICH-Parameters-CTCHreconf-Req-FDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
pICH-Power DL-Power,
iE-Extensions ProtocolExtensionContainer { { PICH-Parameters-CTCHreconf-Req-FDD-ExtIEs } } OPTIONAL,
...
}

PICH-Parameters-CTCHreconf-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PRACH-ParametersList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofPRACHs)) OF
ProtocolIE-Container {{PRACH-ParametersListItemIE-CTCHreconf-Req-FDD}}

PRACH-ParametersListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
{ ID id-PRACH-ParametersListItem-CTCHreconf-Req-FDD CRITICALITY ignore TYPE PRACH-ParametersListItem-CTCHreconf-Req-
FDD PRESENCE optional },
...
}

PRACH-ParametersListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
preambleSignatures PreambleSignatures,
allowedSlotFormatInformationList AllowedSlotFormatInformationList-CTCHreconf-Req-FDD OPTIONAL,
rACH-SubChannelNumbers RACH-SubChannelNumbers OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { PRACH-ParametersList-CTCHreconf-Req-FDD-ExtIEs } } OPTIONAL,
...
}

PRACH-ParametersList-CTCHreconf-Req-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

AllowedSlotFormatInformationList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxSF)) OF
ProtocolIE-Container {{ AllowedSlotFormatInformationListItemIE-CTCHreconf-Req-FDD }}

AllowedSlotFormatInformationListItemIE-CTCHreconf-Req-FDD NBAP-PROTOCOL-IES ::= {
{ ID id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD
CRITICALITY ignore TYPE AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD PRESENCE mandatory },
...
}

```

```

AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
    slotFormat SlotFormat,
    ...
    rach-SubChannelNumbers RACH-SubChannelNumbers OPTIONAL
}

AICH-ParametersList-CTCHreconf-Req-FDD ::= SEQUENCE (SIZE (1..maxnoofPRACHs)) OF
ProtocolIE-Container { { AICH-ParametersListItemIE-CTCHreconf-Req-FDD } }

AICH-ParametersListItemIE-CTCHreconf-Req-FDD-NBAP-PROTOCOL-IES ::= {
{ ID id-AICH-ParametersListItem-CTCHreconf-Req-FDD CRITICALITY ignore TYPE AICH-ParametersListItem-CTCHreconf-Req-
FDD PRESENCE mandatory },
...
}

AICH-ParametersListItem-CTCHreconf-Req-FDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    aICH-Power DL-Power,
    iE-Extensions ProtocolExtensionContainer { { AICH-ParametersList-CTCHreconf-Req-FDD-ExtIEs } } OPTIONAL,
    ...
}

AICH-ParametersList-CTCHreconf-Req-FDD-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 rejectignore TYPE C-ID PRESENCE mandatory } |
    { ID id-ConfigurationGenerationID CRITICALITY rejectignore TYPE ConfigurationGenerationID PRESENCE mandatory } |
    { ID id-CommonPhysicalChannelsToBeReconfiguredType-CTCHreconfReqTDD CRITICALITY ignore TYPE CommonPhysicalChannelsToBeReconfiguredType-
CTCHreconfReqTDD PRESENCE mandatory } |
    { ID id-CommonTransportChannelsToBeReconfigured-CTCHreconfReqTDD CRITICALITY ignore TYPE CommonTransportChannelsToBeReconfigured-
CTCHreconfReqTDD PRESENCE mandatory } |
{ ID id-FACH-ParametersList-CTCHreconfReqTDD CRITICALITY ignore TYPE FACH-ParametersList-CTCHreconfReqTDD PRESENCE optional } |
{ ID id-PCH-ParametersList-CTCHreconfReqTDD CRITICALITY ignore TYPE PCH-ParametersList-CTCHreconfReqTDD PRESENCE optional },
    ...
}

```

```
CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
CommonPhysicalChannelsToBeReconfiguredType-CTCHreconfReqTDD ::= CHOICE {
  secondary-CCPCH-parameters-CTCHreconfReqTDD Secondary-CCPCH-parameters-CTCHreconfReqTDD,
  PICH-parameters-CTCHreconfReqTDD PICHParameters-CTCHreconfReqTDD,
  ...
}
```

```
...
```

```
ENUMERATED {
```

```
  secondaryCCPCH SecondaryCCPCH-CTCHreconfReqTDD
```

```
}
```

```
Secondary-CCPCH-parameters-CTCHreconfReqTDD ::= ProtocolIE-Container {{Secondary-CCPCH-parametersIEs-CTCHreconfReqTDD}}
```

```
Secondary-CCPCH-parametersIEs-CTCHreconfReqTDD NBAP-PROTOCOL-IES ::= {
```

```
  { ID id-Secondary-CCPCH-parametersIE-CTCHreconfReqTDD CRITICALITY reject TYPE Secondary-CCPCH-parametersIE-CTCHreconfReqTDD
```

```
  PRESENCE mandatory },
```

```
  ...}
```

```
Secondary-CCPCH-parametersIE-CTCHreconfReqTDD ::= SEQUENCE {
```

```
  cTrCH-ID CTrCH-ID,
```

```
  secondaryCCPCHList SecondaryCCPCHList-CTCHreconfReqTDD OPTIONAL,
```

```
  iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCH-parameters-CTCHreconfReqTDD-ExtIEs } } OPTIONAL,
```

```
  ...
```

```
}
```

```
Secondary-CCPCH-parameters-CTCHreconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
```

```
}
```

```
SecondaryCCPCHList-CTCHreconfReqTDD ::= ProtocolIE-Container {{SecondaryCCPCHListItemIE-CTCHreconfReqTDD}}
```

```
SecondaryCCPCHListItemIE-CTCHreconfReqTDD NBAP-PROTOCOL-IES ::= {
```

```
  { ID id-SecondaryCCPCHListItem-CTCHreconfReqTDD CRITICALITY reject TYPE SecondaryCCPCHListItem-CTCHreconfReqTDD PRESENCE mandatory },
```

```
  ...
```

```
}
```

```
SecondaryCCPCHListItem-CTCHreconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofSCCPCHs)) OF
```

```
  SecondaryCCPCHItem-CTCHreconfReqTDD
```

```
SecondaryCCPCHItem-CTCHreconfReqTDD ::= SEQUENCE {
```

```
  commonPhysicalChannelID CommonPhysicalChannelID,
```

```
  s-CCPCH-Power DL-Power,
```

```
  iE-Extensions ProtocolExtensionContainer { { SecondaryCCPCHItem-CTCHreconfReqTDD-ExtIEs } } OPTIONAL,
```

```
  ...
```

```
}
```

```
SecondaryCCPCHItem-CTCHreconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
```

```
}
```

```
PICHParameters-CTCHreconfReqTDD ::= ProtocolIE-Container {{PICHParametersItemIE-CTCHreconfReqTDD}}
```

```

PICHParametersItemIE-CTCHReconfReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICHParametersItem-CTCHReconfReqTDD          CRITICALITY reject          TYPE PICHParametersItem-CTCHReconfReqTDD          PRESENCE mandatory },
  ... }

PICHParametersItem-CTCHReconfReqTDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  pichPower                    DL-Power,
  iE-Extensions                ProtocolExtensionContainer {{ PICHParametersItem-CTCHReconfReqTDD-ExtIEs } } OPTIONAL,
  ...
}

PICHParametersItem-CTCHReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommonTransportChannelsToBeReconfigured-CTCHReconfReqTDD ::= CHOICE {
  fACHParameters FACH-Parameters-List-CTCHReconfReqTDD,
  pchParameters PCH-ParametersList-CTCHReconfReqTDD,
  ...
}

FACH-Parameters-List-CTCHReconfReqTDD ::= ProtocolIE-Container {{FACH-ParametersListItemIE-CTCHReconfReqTDD }}

FACH-ParametersListItemIE-CTCHReconfReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersListItem-CTCHReconfReqTDD          CRITICALITY reject          TYPE FACH-ParametersListItem-CTCHReconfReqTDD          PRESENCE
  mandatory },
  ... }

FACH-ParametersListItem-CTCHReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofFACHs)) OF
  FACH-ParameterItem-CTCHReconfReqTDD

FACH-ParameterItem-CTCHReconfReqTDD ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  toAWS                        ToAWS OPTIONAL,
  toAWE                        ToAWE OPTIONAL,
  iE-Extensions                ProtocolExtensionContainer {{ FACH-ParameterItem-CTCHReconfReqTDD-ExtIEs } } OPTIONAL,
  ...
}

FACH-ParameterItem-CTCHReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCH-ParametersList-CTCHReconfReqTDD ::= ProtocolIE-Container {{PCH-ParametersListItemIE-CTCHReconfReqTDD}}

PCH-ParametersListItemIE-CTCHReconfReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParameterItem-CTCHReconfReqTDD          CRITICALITY reject          TYPE PCH-ParameterItem-CTCHReconfReqTDD          PRESENCE mandatory },
  ... }

PCH-ParameterItem-CTCHReconfReqTDD ::= SEQUENCE {

```

```

commonTransportChannelID CommonTransportChannelID,
toAWS ToAWS OPTIONAL,
toAWE ToAWE OPTIONAL,
iE-Extensions ProtocolExtensionContainer {{ PCH-ParameterItem-CTCHReconfReqTDD-ExtIEs } } OPTIONAL,
...
}

PCH-ParameterItem-CTCHReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SecondaryCCPCH-CTCHreconfReqTDD ::= SEQUENCE {
cTrCH-ID CTrCH-ID,
secondaryCCPCHList SecondaryCCPCHList-CTCHreconfReqTDD
}

SecondaryCCPCHList-CTCHreconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofSCCPCHs)) OF
ProtocolIE-Container {{ SecondaryCCPCHList-CTCHreconfReqTDDItemIE }}

SecondaryCCPCHList-CTCHreconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-SecondaryCCPCHList-CTCHreconfReqTDDItem CRITICALITY ignore TYPE SecondaryCCPCHList-CTCHreconfReqTDDItem PRESENCE mandatory },
...
}

SecondaryCCPCHList-CTCHreconfReqTDDItem ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
pICH Power PICH Power
}

FACH-ParametersList-CTCHreconfReqTTD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
ProtocolIE-Container {{ FACH-ParametersListItemIE-CTCHreconfReqTTD }}

FACH-ParametersListItemIE-CTCHreconfReqTTD NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-ParametersListItem-CTCHreconfReqTTD CRITICALITY ignore TYPE FACH-ParametersListItem-CTCHreconfReqTTD PRESENCE mandatory },
...
}

FACH-ParametersListItem-CTCHreconfReqTTD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
toAWS ToAWS OPTIONAL,
toAWE ToAWE OPTIONAL
}

PCH-ParametersList-CTCHreconfReqTTD ::= SEQUENCE (SIZE (1..maxnoofPCHs)) OF
ProtocolIE-Container {{ PCH-ParametersListItemIE-CTCHreconfReqTTD }}

PCH-ParametersListItemIE-CTCHreconfReqTTD NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersListItem-CTCHreconfReqTTD CRITICALITY ignore TYPE PCH-ParametersListItem-CTCHreconfReqTTD PRESENCE optional },
...
}

PCH-ParametersListItem-CTCHreconfReqTTD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
toAWS ToAWS OPTIONAL,
}

```

```

toAWE ToAWE OPTIONAL
}
-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE
--
-- *****

CommonTransportChannelReconfigurationResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelReconfigurationResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonTransportChannelReconfigurationResponse-Extensions}}
OPTIONAL,
    ...
}

CommonTransportChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-CriticalityDiagnostic          CRITICALITY ignore          TYPE CriticalityDiagnostic          PRESENCE optional
},
    ...
}

CommonTransportChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE
--
-- *****

CommonTransportChannelReconfigurationFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelReconfigurationFailure-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonTransportChannelReconfigurationFailure-Extensions}}
OPTIONAL,
    ...
}

CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-Cause          CRITICALITY ignore          TYPE Cause          PRESENCE mandatory }|
{ ID id-CriticalityDiagnostic          CRITICALITY ignore          TYPE CriticalityDiagnostic          PRESENCE optional
}+
{ ID id-CriticalityDiagnostic          CRITICALITY ignore          TYPE CriticalityDiagnostic          PRESENCE optional
},
    ...
}

CommonTransportChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL DELETION REQUEST
--
-- *****

CommonTransportChannelDeletionRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelDeletionRequest-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CommonTransportChannelDeletionRequest-Extensions}}
    ...
}
OPTIONAL,

CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY ignorereject      TYPE C-ID          PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelID CRITICALITY ignorereject TYPE CommonPhysicalChannelID PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY ignorereject TYPE ConfigurationGenerationID PRESENCE mandatory },
    ...
}

CommonTransportChannelDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL DELETION RESPONSE
--
-- *****

CommonTransportChannelDeletionResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelDeletionResponse-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CommonTransportChannelDeletionResponse-Extensions}}
    ...
}
OPTIONAL,

CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostic          CRITICALITY ignore      TYPE CriticalityDiagnostic          PRESENCE optional
    },
    ...
}

CommonTransportChannelDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- BLOCK RESOURCE REQUEST
--
-- *****

```



```

BlockResourceRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{BlockResourceRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{BlockResourceRequest-Extensions}}
    ...
}

BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY rejectignore TYPE C-ID          PRESENCE mandatory }|
    { ID id-BlockingPriorityIndicator CRITICALITY rejectignore TYPE BlockingPriorityIndicator PRESENCE mandatory }|
    { ID id-ShutdownTimer CRITICALITY rejectignore TYPE ShutdownTimer PRESENCE conditional }|
    },
    -- The information element is present when the Blocking Priority Indicator IE indicates 'Normal Priority'--
    ...
}

BlockResourceRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- BLOCK RESOURCE RESPONSE
--
-- *****

BlockResourceResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{BlockResourceResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{BlockResourceResponse-Extensions}}
    ...
}

BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional }|
    },
    ...
}

BlockResourceResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- BLOCK RESOURCE FAILURE
--
-- *****

BlockResourceFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{BlockResourceFailure-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{BlockResourceFailure-Extensions}}
    ...
}

```

```

}

BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Cause          CRITICALITY ignore      TYPE Cause          PRESENCE mandatory  }|
  { ID id-CriticalityDiagnostic  CRITICALITY ignore      TYPE CriticalityDiagnostic  PRESENCE optional
  },
  ...
}

BlockResourceFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- UNBLOCK RESOURCE INDICATION
--
-- *****

UnblockResourceIndication ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container  {{UnblockResourceIndication-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{UnblockResourceIndication-Extensions}}
  ...
}

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}}
  ...
}

AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
  ...
}

```

```

AuditRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- AUDIT REQUEST
--
-- *****

AuditRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{AuditRequest-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{AuditRequest-Extensions}}          OPTIONAL,
    ...
}

AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-ParametersList-Audit-Req    CRITICALITY ignorenotify          TYPE Cell-ParametersList-Audit-Req PRESENCE optional },
    ...
}

AuditRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-ParametersList-Audit-Req ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF
    ProtocolIE-Container {{Cell-ParametersItemIE-Audit-Req}}

Cell-ParametersItemIE-Audit-Req NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-ParametersItem-Audit-Req    CRITICALITY ignorenotify          TYPE Cell-ParametersItem-Audit-Req PRESENCE mandatory },
    ...
}

Cell-ParametersItem-Audit-Req ::= SEQUENCE {
    c-ID                C-ID,
    configurationGenerationID ConfigurationGenerationID,
    ie-Extensions      ProtocolExtensionContainer { { Cell-ParametersItem-Audit-Req-ExtIEs} } OPTIONAL,
    ...
}

Cell-ParametersItem-Audit-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- AUDIT RESPONSE
--
-- *****

```

```

AuditResponse ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{AuditResponse-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{AuditResponse-Extensions}}
    ...
}

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationList-Audit-Res    CRITICALITY ignore TYPE Cell-InformationList-Audit-Res PRESENCE optional }|
    { ID id-CommunicationControlPort-InformationList-Audit-Res    CRITICALITY ignore TYPE CommunicationControlPort-
InformationList-Audit-Res PRESENCE optional
}}
    { ID id-LocalCell-InformationList-Audit-Res CRITICALITY ignore TYPE LocalCell-InformationList-Audit-Res PRESENCE optional }|
    { ID id-CriticalityDiagnostic            CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
    },
    ...
}

AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxUCIDinNodeB)) OF
    ProtocolIE-Container {{Cell-InformationItemIE-Audit-Res }}

Cell-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-Audit-Res    CRITICALITY ignore TYPE Cell-InformationItem-Audit-Res PRESENCE optional },
    ...
}

Cell-InformationItem-Audit-Res ::= SEQUENCE {
    c-ID                C-ID,
    resourceOperationOperationalState ResourceOperationOperationalState,
    availabilityStatus AvailabilityStatus,
    maximumDLPowerCapability MaximumDLPowerCapability,
    -- to do
    minimumSpreadingFactor MinimumSpreadingFactor,
    -- to do
    primary-SCH-Information P-SCH-Information-Audit-Res OPTIONAL,
    secondary-SCH-Information S-SCH-Information-Audit-Res OPTIONAL,
    primary-CPICH-Information P-CPICH-Information-Audit-Res OPTIONAL,
    secondary-CPICH-Information S-CPICH-InformationList-Audit-Res OPTIONAL,
    primary-CCPCH-Information P-CCPCH-Information-Audit-Res OPTIONAL,
    bCH-Information BCH-Information-Audit-Res OPTIONAL,
    secondary-CCPCH-Information S-CCPCH-InformationList-Audit-Res OPTIONAL,
    pCH-InformationList PCH-InformationList-Audit-Res OPTIONAL,
    pICH-Information PICH-Information-Audit-Res OPTIONAL,
    fACH-InformationList FACH-InformationList-Audit-Res OPTIONAL,
    pRACH-InformationList PRACH-InformationList-Audit-Res OPTIONAL,
    rACH-InformationList RACH-InformationList-Audit-Res OPTIONAL,
    aICH-InformationList AICH-InformationList-Audit-Res OPTIONAL,
    SCH-InformationList SCH-InformationList-Audit-Res OPTIONAL,

```

```

pSCH-InformationList PSCH-InformationList-Audit-Res OPTIONAL,
communicationControlPortInformation CommunicationControlPortInformation Audit-Res OPTIONAL,
local-CellInformation Local-CellInformation Audit-Res OPTIONAL
iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

Cell-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

P-SCH-Information-Audit-Res ::= ProtocolIE-Container { { P-SCH-InformationItemIE-Audit-Res } }

P-SCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
{ ID id-P-SCH-InformationItem-Audit-Res CRITICALITY ignore TYPE P-SCH-InformationItem-Audit-Res PRESENCE mandatory },
...
}

P-SCH-InformationItem-Audit-Res ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
resourceOperationOperationalState ResourceOperationOperationalState,
availabilityStatus AvailabilityStatus,
iE-Extensions ProtocolExtensionContainer { { P-SCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

P-SCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

S-SCH-Information-Audit-Res ::= ProtocolIE-Container { { S-SCH-InformationItemIE-Audit-Res } }

S-SCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
{ ID id-S-SCH-InformationItem-Audit-Res CRITICALITY ignore TYPE S-SCH-InformationItem-Audit-Res PRESENCE mandatory },
...
}

S-SCH-InformationItem-Audit-Res ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
resourceOperationOperationalState ResourceOperationOperationalState,
availabilityStatus AvailabilityStatus,
iE-Extensions ProtocolExtensionContainer { { S-SCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

S-SCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

P-CPICH-Information-Audit-Res ::= ProtocolIE-Container { { P-CPICH-InformationItemIE-Audit-Res } }

P-CPICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
{ ID id-P-CPICH-InformationItem-Audit-Res CRITICALITY ignore TYPE P-CPICH-InformationItem-Audit-Res PRESENCE mandatory },

```

```

...
}
P-CPICH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { P-CPICH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}
P-CPICH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
S-CPICH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF
    ProtocolIE-Container {{S-CPICH-InformationItemIE-Audit-Res }}
S-CPICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE S-CPICH-InformationItem-Audit-Res  PRESENCE mandatory
    },
    ...
}
S-CPICH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { S-CPICH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}
S-CPICH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
P-CCPCH-Information-Audit-Res ::= ProtocolIE-Container {{ P-CCPCH-InformationItemIE-Audit-Res }}
P-CCPCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-P-CCPCH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE P-CCPCH-InformationItem-Audit-Res  PRESENCE mandatory },
    ...
}
P-CCPCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { P-CCPCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}
P-CCPCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

BCH-Information-Audit-Res ::= ProtocolIE-Container {{ BCH-InformationItemIE-Audit-Res }}

BCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-InformationItem-Audit-Res    CRITICALITY ignore    TYPE BCH-InformationItem-Audit-Res    PRESENCE mandatory },
  ...
}

BCH-InformationItem-Audit-Res ::= SEQUENCE {
  commonTransportChannelID    CommonTransportChannelID,
  resourceOperationOperationalState    ResourceOperationOperationalState,
  availabilityStatus    AvailabilityStatus,
  iE-Extensions    ProtocolExtensionContainer { { BCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
  ...
}

BCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

S-CCPCH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF
  ProtocolIE-Container {{S-CCPCH-InformationItemIE-Audit-Res }}

S-CCPCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-InformationItem-Audit-Res    CRITICALITY ignore    TYPE S-CCPCH-InformationItem-Audit-Res    PRESENCE mandatory
  },
  ...
}

S-CCPCH-InformationItem-Audit-Res ::= SEQUENCE {
  commonPhysicalChannelID    CommonPhysicalChannelID,
  resourceOperationOperationalState    ResourceOperationOperationalState,
  availabilityStatus    AvailabilityStatus,
  iE-Extensions    ProtocolExtensionContainer { { S-CCPCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
  ...
}

S-CCPCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxPCHCell)) OF
  ProtocolIE-Container {{PCH-InformationItemIE-Audit-Res }}

PCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-InformationItem-Audit-Res    CRITICALITY ignore    TYPE PCH-InformationItem-Audit-Res    PRESENCE mandatory
  },
  ...
}

PCH-InformationItem-Audit-Res ::= SEQUENCE {
  commonTransportChannelID    CommonTransportChannelID,

```

```

resourceOperationOperationalState      ResourceOperationOperationalState,
availabilityStatus      AvailabilityStatus,
iE-Extensions           ProtocolExtensionContainer { { PCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

PCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PICH-Information-Audit-Res ::= ProtocolIE-Container {{ PICH-InformationItemIE-Audit-Res }}

PICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
{ ID id-PICH-InformationItem-Audit-Res      CRITICALITY ignore TYPE PICH-InformationItem-Audit-Res      PRESENCE mandatory },
...
}

PICH-InformationItem-Audit-Res ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
resourceOperationOperationalState      ResourceOperationOperationalState,
availabilityStatus      AvailabilityStatus,
iE-Extensions           ProtocolExtensionContainer { { PICH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

PICH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
ProtocolIE-Container {{FACH-InformationItemIE-Audit-Res}}

FACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-InformationItem-Audit-Res      CRITICALITY ignore TYPE FACH-InformationItem-Audit-Res PRESENCE mandatory      },
...
}

FACH-InformationItem-Audit-Res ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
resourceOperationOperationalState      ResourceOperationOperationalState,
availabilityStatus      AvailabilityStatus,
iE-Extensions           ProtocolExtensionContainer { { FACH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

FACH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PRACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF
ProtocolIE-Container {{PRACH-InformationItemIE-Audit-Res}}

PRACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {

```



```

    { ID id-PRACH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE PRACH-InformationItem-Audit-Res  PRESENCE mandatory  },
    ...
}

PRACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus      AvailabilityStatus,
    iE-Extensions      ProtocolExtensionContainer { { PRACH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}

PRACH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-InformationItemIE-Audit-Res}}

RACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE RACH-InformationItem-Audit-Res PRESENCE mandatory  },
    ...
}

RACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus      AvailabilityStatus,
    iE-Extensions      ProtocolExtensionContainer { { RACH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}

RACH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{AIRACH-InformationItemIE-Audit-Res}}

AICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-RACH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE AICH-RACH-InformationItem-Audit-Res PRESENCE mandatory  },
    ...
}

AICH-InformationItem-Audit-Res ::= SEQUENCE {
    cCommonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus      AvailabilityStatus,
    iE-Extensions      ProtocolExtensionContainer { { AICH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}

AICH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

SCH-Information-Audit-Res ::= ProtocolIE-Container {{ SCH-InformationItemIE-Audit-Res }}

SCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-SCH-InformationItem-Audit-Res CRITICALITY ignore TYPE SCH-InformationItem-Audit-Res PRESENCE mandatory },
    ...
}

SCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    resourceOperationOperationalState ResourceOperationOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { SCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}

SCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PSCH-Information-Audit-Res ::= ProtocolIE-Container {{ PSCH-InformationItemIE-Audit-Res }}

PSCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-PSCH-InformationItem-Audit-Res CRITICALITY ignore TYPE PSCH-InformationItem-Audit-Res PRESENCE mandatory },
    ...
}

RAPSCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    resourceOperationOperationalState ResourceOperationOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { PSCH-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
    ...
}

PSCH-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationControlPort-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
    ProtocolIE-Container {{CommunicationControlPort-InformationItemIE-Audit-Res-}}

CommunicationControlPort-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationControlPort-InformationItem-Audit-Res CRITICALITY ignore TYPE CommunicationControlPort-
    InformationItem-Audit-Res PRESENCE mandatory
    },
    ...
}

CommunicationControlPort-InformationItem-Audit-Res ::= SEQUENCE {
    communicationControlPortID CommunicationControlPortID,

```

```

resourceOperationalState ResourceOperationalState,
availabilityStatus AvailabilityStatus,
iE-Extensions ProtocolExtensionContainer { { CommunicationControlPort-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

```

```

CommunicationControlPort-InformationItem-Audit-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

LocalCell-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxLocalCellInNodeB)) OF
ProtocolIE-Container {{LocalCell-InformationItemIE-Audit-Res}}

```

```

LocalCell-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
{ ID id-LocalCell-InformationItem-Audit-Res CRITICALITY ignore TYPE LocalCell-InformationItem-Audit-Res PRESENCE mandatory },
...
}

```

```

LocalCell-InformationItem-Audit-Res ::= SEQUENCE {
localCell-ID LocalCell-ID,
numberOfChannelElements NumberOfChannelElements OPTIONAL,
maximumDLPowerCapability MaximumDLPowerCapability OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { LocalCell-InformationItem-Audit-Res-ExtIEs } } OPTIONAL,
...
}

```

```

LocalCell-InformationItem-Audit-Res-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 ignorereject TYPE MeasurementID PRESENCE mandatory }|
{ ID id-CommonMeasurementObjectType CRITICALITY reject TYPE CommonMeasurementObjectType PRESENCE mandatory }|
{ ID id-CommonMeasurementObjectType-CMeasureInitReq CRITICALITY ignore TYPE CommonMeasurementObjectType-CMeasureInitReq PRESENCE mandatory
mandatory }|
{ ID id-CommonMeasurementType CRITICALITY ignorereject TYPE CommonMeasurementType PRESENCE mandatory }|
{ ID id-MeasurementCharacteristics CRITICALITY ignorereject TYPE MeasurementCharacteristics PRESENCE mandatory }|
{ ID id-ReportCharacteristics CRITICALITY ignorereject TYPE ReportCharacteristics PRESENCE mandatory },
...
}

```

```

CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommonMeasurementObjectType-CMeasureInitReq ::= ENUMERATED-CHOICE {
  cell          Cell-CMeasureInitReq,
  rACH          RACH-CMeasureInitReq,
  ...
}

Cell-CMeasureInitReq ::= ProtocolIE-Container {{ CellItemIE-CMeasureInitReq }}

CellItemIE-CMeasureInitReq NBAP-PROTOCOL-IES ::= {
  { ID id-CellItem-CMeasureInitReq CRITICALITY reject TYPE CellItem-CMeasureInitReq PRESENCE mandatory },
  ...
}

CellItem-CMeasureInitReq ::= SEQUENCE {
  c-ID          C-ID,
  timeSlot      TimeSlot,
  iE-Extensions ProtocolExtensionContainer { { CellItem-CMeasureInitReq-ExtIEs } } OPTIONAL,
  ...
}

CellItem-CMeasureInitReq-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-CMeasureInitReq ::= ProtocolIE-Container {{ RACHItemIE-CMeasureInitReq }}

RACHItemIE-CMeasureInitReq NBAP-PROTOCOL-IES ::= {
  { ID id-RACHItem-CMeasureInitReq CRITICALITY reject TYPE RACHItem-CMeasureInitReq PRESENCE mandatory },
  ...
}

RACHItem-CMeasureInitReq ::= SEQUENCE {
  c-ID          C-ID,
  commonTransportChannelID CommonTransportChannelID,
  iE-Extensions ProtocolExtensionContainer { { RACHItem-CMeasureInitReq-ExtIEs } } OPTIONAL,
  ...
}

RACHItem-CMeasureInitReq-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION RESPONSE
--
-- *****

```

```

CommonMeasurementInitiationResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonMeasurementInitiationResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}}
}
...

CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID          CRITICALITY ignore TYPE MeasurementID          PRESENCE mandatory }|
    { ID id-CommonMeasurementObjectType-Res CRITICALITY ignore TYPE CommonMeasurementObjectType-Res PRESENCE mandatory }|
    { ID id-SFN                    CRITICALITY ignore TYPE SFN                    PRESENCE optional }|
    { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
    },
    ...
}

CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonMeasurementObjectType-Res ::= CHOICE {
    cell          Cell-CommonMeasurement-Res,
    rACH          RACH-CommonMeasurement-Res,
    ...
}

Cell-CommonMeasurement-Res ::= ProtocolIE-Container {{ CellItemIE-CommonMeasurement-Res }}

CellItemIE-CommonMeasurement-Res NBAP-PROTOCOL-IES ::= {
    { ID id-CellItem-CommonMeasurement-Res CRITICALITY ignore TYPE CellItem-CommonMeasurement-Res PRESENCE mandatory },
    ...
}

CellItem-CommonMeasurement-Res ::= SEQUENCE {
    commonMeasurementValue CommonMeasurementValue,
    iE-Extensions          ProtocolExtensionContainer { { CellItem-CommonMeasurement-Res-ExtIEs } } OPTIONAL,
    ...
}

CellItem-CommonMeasurement-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-CommonMeasurement-Res ::= ProtocolIE-Container {{ RACHItemIE-CommonMeasurement-Res }}

RACHItemIE-CommonMeasurement-Res NBAP-PROTOCOL-IES ::= {
    { ID id-RACHItem-CommonMeasurement-Res CRITICALITY ignore TYPE RACHItem-CommonMeasurement-Res PRESENCE mandatory },
    ...
}

RACHItem-CommonMeasurement-Res ::= SEQUENCE {

```

```

commonMeasurementValue      CommonMeasurementValue
  iE-Extensions              ProtocolExtensionContainer { { RACHItem-CommonMeasurement-Res-ExtIEs } } OPTIONAL,
  ...
}

RACHItem-CommonMeasurement-Res-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION FAILURE
--
-- *****

CommonMeasurementInitiationFailure ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{CommonMeasurementInitiationFailure-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CommonMeasurementInitiationFailure-Extensions}}
  ...
}

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-CriticalityDiagnostic   CRITICALITY ignore TYPE CriticalityDiagnostic   PRESENCE optional
  },
  ...
}

CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT REPORT
--
-- *****

CommonMeasurementReport ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{CommonMeasurementReport-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}}
  ...
}

CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID          CRITICALITY ignore TYPE MeasurementID          PRESENCE mandatory }|
  { ID id-CommonMeasurementObjectType-Rep CRITICALITY ignore TYPE CommonMeasurementObjectType-Rep PRESENCE mandatory }|
  { ID id-SFN                    CRITICALITY ignore TYPE SFN                    PRESENCE optional },
  ...
}

```

```
CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
CommonMeasurementObjectType-Rep ::= ENUMERATED-CHOICE {
  cell          Cell-CommonMeasurement-Rep,
  rACH          RACH-CommonMeasurement-Rep,
  ...
}
```

```
Cell-CommonMeasurement-Rep ::= ProtocolIE-Container {{ CellItemIE-CommonMeasurement-Rep }}
```

```
CellItemIE-CommonMeasurement-Rep NBAP-PROTOCOL-IES ::= {
  { ID id-CellItem-CommonMeasurement-Rep CRITICALITY ignore TYPE CellItem-CommonMeasurement-Rep PRESENCE mandatory },
  ...
}
```

```
CellItem-CommonMeasurement-Rep ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions               ProtocolExtensionContainer { { CellItem-CommonMeasurement-Rep-ExtIEs } } OPTIONAL,
  ...
}
```

```
CellItem-CommonMeasurement-Rep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
RACH-CommonMeasurement-Rep ::= ProtocolIE-Container {{ RACHItemIE-CommonMeasurement-Rep }}
```

```
RACHItemIE-CommonMeasurement-Rep NBAP-PROTOCOL-IES ::= {
  { ID id-RACHItem-CommonMeasurement-Rep CRITICALITY ignore TYPE RACHItem-CommonMeasurement-Rep PRESENCE mandatory },
  ...
}
```

```
RACHItem-CommonMeasurement-Rep ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions               ProtocolExtensionContainer { { RACHItem-CommonMeasurement-Rep-ExtIEs } } OPTIONAL,
  ...
}
```

```
RACHItem-CommonMeasurement-Rep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
-- *****
--
-- COMMON MEASUREMENT TERMINATION REQUEST
--
-- *****
```

```
CommonMeasurementTerminationRequest ::= SEQUENCE {
```

```

    protocolIEs          ProtocolIE-Container    {{CommonMeasurementTerminationRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonMeasurementTerminationRequest-Extensions}}
    ...
}

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}}
  ...
}

CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID          CRITICALITY ignore  TYPE MeasurementID          PRESENCE mandatory  }|
  { ID id-Cause                  CRITICALITY ignore  TYPE Cause                  PRESENCE mandatory  }+
  { ID id CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
  },
  ...
}

CommonMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- CELL SETUP REQUEST FDD
--
-- *****

CellSetupRequestFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{CellSetupRequestFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}}
  ...
}

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {

```



```

{ ID id-LocalCell-ID                CRITICALITY ignorereject    TYPE LocalCell-ID                PRESENCE mandatory }|
{ ID id-C-ID                        CRITICALITY rejectignore    TYPE C-ID                        PRESENCE mandatory }|
{ ID id-ConfigurationGenerationID    CRITICALITY rejectignore    TYPE ConfigurationGenerationID    PRESENCE mandatory }|
{ ID id-T-Cell                      CRITICALITY rejectignore    TYPE T-Cell                      PRESENCE mandatory }|
{ ID id-UARFCN                      CRITICALITY rejectignore    TYPE UARFCN                      PRESENCE mandatory }|
{ ID id-MaximumTransmissionPower     CRITICALITY rejectignore    TYPE MaximumTransmissionPower     PRESENCE mandatory }|
{ ID id-PrimaryScramblingCode        CRITICALITY rejectignore    TYPE PrimaryScramblingCode        PRESENCE mandatory }|
{ ID id-PrimarySCH-Information-Cellsetup-Req CRITICALITY rejectignore    TYPE PrimarySCH-Information-Cellsetup-Req PRESENCE mandatory }|
{ ID id-SecondarySCH-Information-Cellsetup-Req CRITICALITY rejectignore    TYPE SecondarySCH-Information-Cellsetup-Req PRESENCE mandatory }|
{ ID id-PrimaryCPICH-Information-Cellsetup-Req CRITICALITY rejectignore    TYPE PrimaryCPICH-Information-Cellsetup-Req PRESENCE mandatory }|
{ ID id-SecondaryCPICH-Information-Cellsetup-Req CRITICALITY rejectignore    TYPE SecondaryCPICH-Information-Cellsetup-Req PRESENCE optional }|
}
{ ID id-PrimaryCCPCH-Information-Cellsetup-Req CRITICALITY rejectignore    TYPE PrimaryCCPCH-Information-Cellsetup-Req PRESENCE mandatory },
...
}

CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

PrimarySCH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    primarySCH-Power          DL-Power,
    tSTD-Indicator            TSTD-Indicator,
    iE-Extensions           ProtocolExtensionContainer { { PrimarySCH-Information-Cellsetup-Req-ExtIEs } } OPTIONAL,
    ...
}

PrimarySCH-Information-Cellsetup-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SecondarySCH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    secondarySCH-Power        DL-Power,
    transmitDiversityIndication TransmitDiversityIndication,
    iE-Extensions           ProtocolExtensionContainer { { SecondarySCH-Information-Cellsetup-Req-ExtIEs } } OPTIONAL,
    ...
}

SecondarySCH-Information-Cellsetup-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PrimaryCPICH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    primaryCPICH-Power        DL-Power,
    sTTD-Indicator            STTD-Indicator,
    iE-Extensions           ProtocolExtensionContainer { { PrimaryCPICH-Information-Cellsetup-Req-ExtIEs } } OPTIONAL,
    ...
}

```

```

PrimaryCPICH-Information-Cellsetup-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

SecondaryCPICH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    dl-ScramblingCode            DL-ScramblingCode,
    secondaryCPICH-Power         DL-Power,
    transmitDiversityIndication  TransmitDiversityIndication,
    iE-Extensions                ProtocolExtensionContainer { { SecondaryCPICH-Information-Cellsetup-Req-ExtIEs} } OPTIONAL,
    ...
}

```

```

SecondaryCPICH-Information-Cellsetup-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PrimaryCCPCH-Information-Cellsetup-Req ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    bCH-information-Cellsetup-Req  BCH-Information-PrimCCPCH-Cellsetup-Req,
    sTTD-Indicator                STTD-Indicator,
    iE-Extensions                ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cellsetup-Req-ExtIEs} } OPTIONAL,
    ...
}

```

```

PrimaryCCPCH-Information-Cellsetup-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

BCH-Information-PrimCCPCH-Cellsetup-Req ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bCH-Power                     DL-Power,
    iE-Extensions                ProtocolExtensionContainer { { BCH-Information-PrimCCPCH-Cellsetup-Req-ExtIEs} } OPTIONAL,
    ...
}

```

```

BCH-Information-PrimCCPCH-Cellsetup-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

-- *****
--
-- CELL SETUP REQUEST TDD
--
-- *****

```

```

CellSetupRequestTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container      {{CellSetupRequestTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{CellSetupRequestTDD-Extensions}}
    ...
}

```

```

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-LocalCell-ID          CRITICALITY rejectignore   TYPE LocalCell-ID          PRESENCE mandatory }|
  { ID id-C-ID                  CRITICALITY rejectignore   TYPE C-ID                    PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID CRITICALITY rejectignore TYPE ConfigurationGenerationID PRESENCE mandatory }|
  { ID id-UARFCN                 CRITICALITY rejectignore   TYPE UARFCN                  PRESENCE mandatory }|
  { ID id-Cell-Parameter-ID      CRITICALITY rejectignore TYPE Cell-Parameter-ID      PRESENCE mandatory }|
  { ID id-MaximumTransmissionPower CRITICALITY rejectignore TYPE MaximumTransmissionPower PRESENCE optional }|
  { ID id-TransmissionDiversityApplied CRITICALITY rejectignore TYPE TransmissionDiversityApplied PRESENCE mandatory }|
  { ID id-SyncCase               CRITICALITY rejectignore   TYPE TransmissionDiversityAppliedSyncCase-CellSetupReqTDD PRESENCE mandatory }|
  { ID id-PSCH-Information-CellsetupReqTDD CRITICALITY rejectignore TYPE PSCH-Information-CellsetupReqTDD PRESENCE mandatory }|
  { ID id-PCCPCH-Information-CellsetupReqTDD CRITICALITY rejectignore TYPE PCCPCH-Information-CellsetupReqTDD PRESENCE mandatory }|
  { ID id-TimeSlotConfigurationList-CellsetupReqTDD CRITICALITY rejectignore TYPE TimeSlotConfigurationList-CellsetupReqTDD PRESENCE mandatory }
},
...
}

```

```

CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

PSCH-Information-CellsetupReqTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  syncCase SyncCaseChoice-CellSetupReqTDD,
  iE-Extensions ProtocolExtensionContainer {{ PSCH-Information-CellSetupReqTDD-ExtIEs }} OPTIONAL,
  ...
  syncCaseIndicator SyncCaseIndicator-CellsetupReqTDD,
  pSCH-Power DL-Power,
  tSTD-Indicator TSTD-Indicator
}

```

```

PSCH-Information-CellSetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

SyncCaseChoice-CellSetupReqTDD ::= CHOICE {
  case1 Case1-CellSetupReqTDD,
  case2andCase3 Case2andCase3-CellSetupReqTDD,
  ...
}

```

```

Case1-CellSetupReqTDD ::= ProtocolIE-Container {{Case1-ItemIEs-CellSetupReqTDD}}

```

```

Case1-ItemIEs-CellSetupReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Case1-Item-CellSetupReqTDD CRITICALITY reject TYPE TimeSlot PRESENCE mandatory },
  ...
}

```

```

Case2andCase3-CellSetupReqTDD ::= ProtocolIE-Container {{Case2andCase3-ItemIEs-CellSetupReqTDD}}
Case2andCase3-ItemIEs-CellSetupReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Case2andCase3-Item-CellSetupReqTDD CRITICALITY reject TYPE Case2andCase3-Item-CellSetupReqTDD PRESENCE mandatory },

```

```

...
}

Case2andCase3-Item-CellSetupReqTDD ::= SEQUENCE {
  pSCH-TimeSlot PSCH-TimeSlot,
  pSCH-Power DL-Power,
  tstd-Indicator TSTD-Indicator,
  iE-Extensions ProtocolExtensionContainer {{ Case2AndCase3-CellSetupReqTDD-ExtIEs } } OPTIONAL,
  ...
}

Case2AndCase3-CellSetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SyncCaseIndicator-CellSetupReqTDD ::= ENUMERATED {
  case1 Case1-CellSetupReqTDD,
  case2andCase3 Case2andCase3-CellSetupReqTDD
}

Case1-CellSetupReqTDD ::= SEQUENCE {
  timeSlot TimeSlot
}

Case2andCase3-CellSetupReqTDD ::= SEQUENCE {
  PSCH-TimeSlot PSCH-TimeSlot
}

PCCPCH-Information-CellSetupReqTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  syncCaseIndicator SyncCaseChoiceIndicator-CellSetupReqTDD2,
  tddChannelisationOffset TDDChannelisationOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  pCCPCH-Power DL-Power,
  tSTD-Indicator TSTD-Indicator,
  iE-Extensions ProtocolExtensionContainer {{ PCCPCH-Information-CellSetupReqTDD-ExtIEs } } OPTIONAL,
  ...
}

PCCPCH-Information-CellSetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SyncCaseChoice-CellSetupReqTDD2 ::= CHOICE {
  case3 Case3-CellSetupReqTDD,
  ...
}

Case3-CellSetupReqTDD ::= ProtocolIE-Container {{Case3-ItemIEs-CellSetupReqTDD}}

Case3-ItemIEs-CellSetupReqTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Case3-Item-CellSetupReqTDD CRITICALITY reject TYPE TimeSlot PRESENCE mandatory},
  ...
}

```

```

}

SyncCaseIndicator-CellsetupReqTDD2 ::= ENUMERATED {
  case3 Case3-CellsetupReqTDD
}

Case3-CellsetupReqTDD ::= SEQUENCE {
  timeSlot TimeSlot
}

TimeSlotConfigurationList-CellsetupReqTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationList-CellsetupReqTDDItem
ProtocolIE-Container{{TimeSlotConfigurationList-CellsetupReqTDD-ItemIE }}

TimeSlotConfigurationList-CellsetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-TimeSlotConfigurationList-CellsetupReqTDDItem CRITICALITY ignore TYPE TimeSlotConfigurationList-
CellsetupReqTDDItem PRESENCE mandatory
}r
...
}

TimeSlotConfigurationList-CellsetupReqTDDItem ::= SEQUENCE {
  timeSlot TimeSlot,
  timeSlotStatus TimeSlotStatus,
  timeSlotDirection TimeSlotDirection,
  iE-Extensions ProtocolExtensionContainer { { TimeSlotConfigurationList-CellsetupReqTDDItem-ExtIEs } } OPTIONAL,
  ...
}

TimeSlotConfigurationList-CellsetupReqTDDItem-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-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic 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-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic 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 rejectignore TYPE C-ID          PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY rejectignore TYPE ConfigurationGenerationID PRESENCE mandatory }|
    { ID id-MaximumTransmissionPower CRITICALITY rejectignore TYPE MaximumTransmissionPower PRESENCE optional }|
    { ID id-PrimarySCH-Information-Cellreconf-Req CRITICALITY rejectignore TYPE PrimarySCH-Information-Cellreconf-Req PRESENCE optional }|
    { ID id-SecondarySCH-Information-Cellreconf-Req CRITICALITY rejectignore TYPE SecondarySCH-Information-Cellreconf-Req PRESENCE optional }|
    { ID id-PrimaryCPICH-Information-Cellreconf-Req CRITICALITY rejectignore TYPE PrimaryCPICH-Information-Cellreconf-Req PRESENCE optional }|
    { ID id-SecondaryCPICH-Information-Cellreconf-Req CRITICALITY rejectignore TYPE SecondaryCPICH-Information-Cellreconf-Req PRESENCE optional }|
    { ID id-PrimaryCCPCH-Information-Cellreconf-Req CRITICALITY rejectignore TYPE PrimaryCCPCH-Information-Cellreconf-Req PRESENCE optional },
    ...
}

```

```
CellReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
PrimarySCH-Information-Cellreconf-Req ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  primarySCH-Power              DL-Power,
  iE-Extensions                 ProtocolExtensionContainer { { PrimarySCH-Information-Cellreconf-Req-ExtIEs } } OPTIONAL,
  ...
}
```

```
PrimarySCH-Information-Cellreconf-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
SecondarySCH-Information-Cellreconf-Req ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  secondarySCH-Power           DL-Power,
  iE-Extensions                 ProtocolExtensionContainer { { SecondarySCH-Information-Cellreconf-Req-ExtIEs } } OPTIONAL,
  ...
}
```

```
SecondarySCH-Information-Cellreconf-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
PrimaryCPICH-Information-Cellreconf-Req ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  primaryCPICH-Power            DL-Power,
  iE-Extensions                 ProtocolExtensionContainer { { PrimaryCPICH-Information-Cellreconf-Req-ExtIEs } } OPTIONAL,
  ...
}
```

```
PrimaryCPICH-Information-Cellreconf-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
SecondaryCPICH-Information-Cellreconf-Req ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  secondaryCPICH-Power          DL-Power,
  iE-Extensions                 ProtocolExtensionContainer { { SecondaryCPICH-Information-Cellreconf-Req-ExtIEs } } OPTIONAL,
  ...
}
```

```
SecondaryCPICH-Information-Cellreconf-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
PrimaryCCPCH-Information-Cellreconf-Req ::= SEQUENCE {
  bCH-information               BCH-Information-Cellreconf-Req,
  iE-Extensions                 ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cellreconf-Req-ExtIEs } } OPTIONAL,
  ...
}
```



```

}
PCCPCH-Information-CellReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCCPCH-Information-CellReconfReq ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  pCCPCH-Power                 PCCPCH-Power,
  iE-Extensions                ProtocolExtensionContainer {{ PCCPCH-Information-CellReconfReqTDD-ExtIEs } } OPTIONAL,
  ...
}

PCCPCH-Information-CellReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TimeSlotConfigurationList-CellReconfReq ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfiguration-CellReconfReqItem
ProtocolIE-Container {{TimeSlotConfiguration-CellReconfReqItemIE }}}

TimeSlotConfiguration-CellReconfReqItemIE NBAP-PROTOCOL-IES ::= {
  { I D id-TimeSlotConfiguration-CellReconfReqItem CRITICALITY ignore TYPE TimeSlotConfiguration-CellReconfReqItem PRESENCE
  mandatory
},
  ...
}

TimeSlotConfiguration-CellReconfReqItem ::= SEQUENCE {
  timeSlot                    TimeSlot,
  timeSlotStatus              TimeSlotStatus,
  timeSlotDirection           TimeSlotDirection,
  iE-Extensions               ProtocolExtensionContainer { { TimeSlotConfiguration-CellReconfReqItem-ExtIEs } } OPTIONAL,
  ...
}

TimeSlotConfiguration-CellReconfReqItem-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-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional

```

```

    },
    ...
}

CellReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- CELL RECONFIGURATION FAILURE
--
-- *****

CellReconfigurationFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CellReconfigurationFailure-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CellReconfigurationFailure-Extensions}}
| privateExtensions   PrivateExtensionContainer {{CellReconfigurationFailure-PrivateExtensions}}
    ...
}

CellReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cause          CRITICALITY ignore   TYPE Cause          PRESENCE mandatory }|
| { ID id-CriticalityDiagnostic CRITICALITY ignore   TYPE CriticalityDiagnostic PRESENCE optional }
    },
    ...
}

CellReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- CELL DELETION REQUEST
--
-- *****

CellDeletionRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CellDeletionRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CellDeletionRequest-Extensions}}
| privateExtensions   PrivateExtensionContainer {{CellDeletionRequest-PrivateExtensions}}
    ...
}

CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
| { ID id-C-ID          CRITICALITY rejectignore   TYPE C-ID          PRESENCE mandatory },
    ...
}

CellDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}

-- *****
--
-- CELL DELETION RESPONSE
--
-- *****

CellDeletionResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CellDeletionResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CellDeletionResponse-Extensions}}
    ...
}

CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostic          CRITICALITY ignore          TYPE CriticalityDiagnostic          PRESENCE optional
    },
    ...
}

CellDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

ResourceStatusIndication ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{ResourceStatusIndication-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}}
    ...
}

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-IndicationType          CRITICALITY ignore          TYPE IndicationType          PRESENCE mandatory }|
    { ID id-IndicationType-ResourceStatInd          CRITICALITY ignore          TYPE IndicationType-ResourceStatInd          PRESENCE mandatory }|
    { ID id-Cause          CRITICALITY ignore          TYPE Cause          PRESENCE mandatory },
    ...
}

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

| IndicationType-ResourceStatInd ::= ENUMERATED-CHOICE {

```

```

    no-Failure           No-Failure-ResourceStatInd,
    serviceImpacting     ServiceImpacting-ResourceStatInd,
    ...
}

No-Failure-ResourceStatInd ::= ProtocolIE-Container {{ No-FailureItemIE-ResourceStatInd }}

No-FailureItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-No-FailureItem-ResourceStatInd  CRITICALITY ignore TYPE No-FailureItem-ResourceStatInd  PRESENCE mandatory },
    ...
}

No-FailureItem-ResourceStatInd ::= SEQUENCE {
    local-CellInformationList-ResourceStatInd          Local-CellInformationList-ResourceStatInd
}

Local-CellInformationList-ResourceStatInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF
    ProtocolIE-Container {{Local-CellInformation-ResourceStatIndItemIE}}

Local-CellInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-Local-CellInformation-ResourceStatIndItem  CRITICALITY ignore TYPE Local-CellInformation-ResourceStatIndItem  PRESENCE mandatory },
    ...
}

Local-CellInformation-ResourceStatIndItem ::= SEQUENCE {
    local-Cell-ID          Local-Cell-ID,
    addOrDeleteIndicator   AddOrDeleteIndicator,
    numberOfChannelElements  NumberOfChannelElements,
    maximum-DL-PowerCapability  Maximum-DL-PowerCapability,
    iE-Extensions          ProtocolExtensionContainer { { Local-CellInformation-ResourceStatIndItem-ExtIEs } } OPTIONAL,
    ...
}

Local-CellInformation-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ServiceImpacting-ResourceStatInd ::= ProtocolIE-Container {{ ServiceImpactingItemIE-ResourceStatInd }}

ServiceImpactingItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-ServiceImpactingItem-ResourceStatInd  CRITICALITY ignore TYPE ServiceImpactingItem-ResourceStatInd  PRESENCE mandatory },
    ...
}

ServiceImpactingItem-ResourceStatInd ::= SEQUENCE {
    local-Cell-InformationList-ResourceStatInd          Local-Cell-InformationList-ResourceStatInd  OPTIONAL,
    communicationControlPortInformationList-ResourceStatInd
    CommunicationControlPortInformationList-ResourceStatInd OPTIONAL,
    cell-InformationList-ResourceStatInd                Cell-InformationList-ResourceStatInd  OPTIONAL,
    primary-SCH-Information      P-SCH-Information-ResourceStatIndAudit-Res  OPTIONAL,
    secondary-SCH-Information    S-SCH-Information-ResourceStatIndAudit-Res  OPTIONAL,
    primary-CPICH-Information    P-CPICH-Information-ResourceStatIndAudit-Res  OPTIONAL,
    secondary-CPICH-Information  S-CPICH-Information-List-ResourceStatIndAudit-Res  OPTIONAL,
}

```

```

primary-CCPCH-Information P-CCPCH-Information-ResourceStatIndAudit-Res OPTIONAL,
bCH-InformationItem-ResourceStatInd BCH-InformationItem-ResourceStatInd OPTIONAL,
secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatIndAudit-Res OPTIONAL,
pCH-InformationList-ResourceStatInd PCH-InformationList-ResourceStatInd OPTIONAL,
pICH-InformationItem-ResourceStatInd PICH-InformationItem-ResourceStatInd OPTIONAL,
fACH-InformationList-ResourceStatInd FACH-InformationList-ResourceStatInd OPTIONAL,
pRACH-InformationList PRACH-InformationList-ResourceStatIndAudit-Res OPTIONAL,
rACH-InformationList-ResourceStatInd RACH-InformationList-ResourceStatInd OPTIONAL,
aICH-InformationList-ResourceStatInd AICH-InformationList-ResourceStatInd OPTIONAL,
sCH-InformationList-ResourceStatInd SCH-InformationList-ResourceStatInd OPTIONAL,
pSCH-InformationList PSCH-InformationList-ResourceStatIndAudit-Res OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatInd-ExtIEs } } OPTIONAL,
...
}

ServiceImpactingItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxLocalCellInNodeB)) OF
ProtocolIE-Container {{Local-Cell-Information-ResourceStatIndItemIE }}

Local-Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-Information-ResourceStatIndItem CRITICALITY ignore TYPE Local-Cell-Information-ResourceStatIndItem PRESENCE mandatory },
...
}

Local-Cell-Information-ResourceStatIndItem ::= SEQUENCE {
local-Cell-ID Local-Cell-ID,
numberOfChannelElements NumberOfChannelElements OPTIONAL,
maximum-DL-PowerCapability Maximum-DL-PowerCapability OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { Local-Cell-Information-ResourceStatIndItem-ExtIEs } } OPTIONAL,
...
}

Local-Cell-Information-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CommunicationControlPortInformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
ProtocolIE-Container {{CommunicationControlPortInformation-ResourceStatIndItemIE }}

CommunicationControlPortInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-CommunicationControlPortInformation-ResourceStatIndItem
CRITICALITY ignore TYPE CommunicationControlPortInformation-ResourceStatIndItem
PRESENCE mandatory },
...
}

CommunicationControlPortInformation-ResourceStatIndItem ::= SEQUENCE {
communicationControlPortID CommunicationControlPortID,
resourceOperationalState ResourceOperationalState,
availabilityStatus AvailabilityStatus,

```

```

iE-Extensions          ProtocolExtensionContainer { { CommunicationControlPortInformation-ResourceStatIndItem-ExtIEs } } OPTIONAL,
...
}

```

```

CommunicationControlPortInformation-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

```

```

Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCellInNodeB)) OF
  ProtocolIE-Container {{Cell-Information-ResourceStatIndItemIE }}

```

```

Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-Information-ResourceStatIndItem   CRITICALITY ignore   TYPE Cell-Information-ResourceStatIndItem   PRESENCE mandatory},
  ...
}

```

```

Cell-Information-ResourceStatIndItem ::= SEQUENCE {
  c-ID          C-ID,
  resourceOperationalState   ResourceOperationalState,
  availabilityStatus   AvailabilityStatus,
  maximumDL-PowerCapability   MaximumDL-PowerCapability,
  minimumSpreadingFactor   MinimumSpreadingFactor,
  iE-Extensions          ProtocolExtensionContainer { { Cell-Information-ResourceStatIndItem-ExtIEs } } OPTIONAL,
  ...
}

```

```

Cell-Information-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

```

```

P-SCH-Information-ResourceStatInd ::= ProtocolIE-Container {{ P-SCH-InformationItemIE-ResourceStatInd }}

```

```

P-SCH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-InformationItem-ResourceStatInd   CRITICALITY ignore   TYPE P-SCH-InformationItem-ResourceStatInd   PRESENCE mandatory },
  ...
}

```

```

P-SCH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID   CommonTransportChannelID,
  resourceOperationalState   ResourceOperationalState,
  availabilityStatus   AvailabilityStatus,
  iE-Extensions          ProtocolExtensionContainer { { P-SCH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
  ...
}

```

```

P-SCH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

```

```

S-SCH-Information-ResourceStatInd ::= ProtocolIE-Container {{ S-SCH-InformationItemIE-ResourceStatInd }}

```

```

S-SCH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-InformationItem-ResourceStatInd   CRITICALITY ignore   TYPE S-SCH-InformationItem-ResourceStatInd   PRESENCE mandatory },

```

```

    ...
}

S-SCH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { S-SCH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
    ...
}

S-SCH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CPICH-Information-ResourceStatInd ::= ProtocolIE-Container { { P-CPICH-InformationItemIE-ResourceStatInd } }

P-CPICH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-InformationItem-ResourceStatInd      CRITICALITY ignore      TYPE P-CPICH-InformationItem-ResourceStatInd      PRESENCE mandatory },
    ...
}

P-CPICH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { P-CPICH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
    ...
}

P-CPICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CPICH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF
    ProtocolIE-Container { { S-CPICH-InformationItemIE-ResourceStatInd } }

S-CPICH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-InformationItem-ResourceStatInd      CRITICALITY ignore      TYPE S-CPICH-InformationItem-ResourceStatInd      PRESENCE mandatory
    },
    ...
}

S-CPICH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationOperationalState      ResourceOperationOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                 ProtocolExtensionContainer { { S-CPICH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
    ...
}

S-CPICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}
P-CCPCH-Information-ResourceStatInd ::= ProtocolIE-Container {{ P-CCPCH-InformationItemIE-ResourceStatInd }}
P-CCPCH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-InformationItem-ResourceStatInd CRITICALITY ignore TYPE P-CCPCH-InformationItem-ResourceStatInd PRESENCE mandatory },
  ...
}
P-CCPCH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { P-CCPCH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
  ...
}
P-CCPCH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
BCH-Information-ResourceStatInd ::= ProtocolIE-Container {{ BCH-InformationItemIE-ResourceStatInd }}
BCH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-InformationItem-ResourceStatInd CRITICALITY ignore TYPE BCH-InformationItem-ResourceStatInd PRESENCE mandatory },
  ...
}
BCH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { BCH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
  ...
}
BCH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
S-CCPCH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-ResourceStatInd }}
S-CCPCH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-InformationItem-ResourceStatInd CRITICALITY ignore TYPE S-CCPCH-InformationItem-ResourceStatInd PRESENCE mandatory },
  ...
}
S-CCPCH-InformationItem-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { S-CCPCH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
}

```



```

    ...
}

S-CCPCH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxPCHinNodeB)) OF
    ProtocolIE-Container {{PCH-Information-ResourceStatIndItemIE }}

PCH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-Information-ResourceStatIndItem CRITICALITY ignore TYPE PCH-Information-ResourceStatIndItem PRESENCE mandatory},
    ...
}

PCH-Information-ResourceStatIndItem ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { PCH-Information-ResourceStatIndItem-ExtIEs} } OPTIONAL,
    ...
}

PCH-Information-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Information-ResourceStatInd ::= ProtocolIE-Container {{ PICH-InformationItemIE-ResourceStatInd }}

PICH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-PICH-InformationItem-ResourceStatInd CRITICALITY ignore TYPE PICH-InformationItem-ResourceStatInd PRESENCE mandatory },
    ...
}

PICH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer { { PICH-InformationItem-ResourceStatInd-ExtIEs} } OPTIONAL,
    ...
}

PICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
    ProtocolIE-Container {{FACH-Information-ResourceStatIndItemIE }}

FACH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-Information-ResourceStatIndItem CRITICALITY ignore TYPE FACH-Information-ResourceStatIndItem PRESENCE mandatory},
    ...
}

```

```

FACH-Information-ResourceStatIndItem ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { FACH-Information-ResourceStatIndItem-ExtIEs } } OPTIONAL,
    ...
}

FACH-Information-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PRACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF
    ProtocolIE-Container {{PRACH-InformationItemIE-ResourceStatInd}}

PRACH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-ResourceStatInd      CRITICALITY ignore TYPE PRACH-InformationItem-ResourceStatInd PRESENCE mandatory },
    ...
}

PRACH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { PRACH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
    ...
}

PRACH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

RACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-Information-ResourceStatIndItemIE }}

RACH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-Information-ResourceStatIndItem      CRITICALITY ignore TYPE RACH-Information-ResourceStatIndItem PRESENCE mandatory},
    ...
}

RACH-Information-ResourceStatIndItem ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { RACH-Information-ResourceStatIndItem-ExtIEs } } OPTIONAL,
    ...
}

RACH-Information-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

AICH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxAICHCell)) OF
 ProtocolIE-Container {{AICH-Information-ResourceStatIndItemIE }}

AICH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
 { ID id-AICH-Information-ResourceStatIndItem CRITICALITY ignore TYPE AICH-Information-ResourceStatIndItem PRESENCE mandatory},
 ...
 }

AICH-Information-ResourceStatIndItem ::= SEQUENCE {
 commonPhysicalChannelID CommonPhysicalChannelID,
 resourceOperationalState ResourceOperationalState,
 availabilityStatus AvailabilityStatus,
 iE-Extensions ProtocolExtensionContainer { { AICH-Information-ResourceStatIndItem-ExtIEs } } OPTIONAL,
 ...
 }

AICH-Information-ResourceStatIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 ...
 }

SCH-Information-ResourceStatInd ::= ProtocolIE-Container {{ SCH-InformationItemIE-ResourceStatInd }}

SCH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
 { ID id-SCH-InformationItem-ResourceStatInd CRITICALITY ignore TYPE SCH-InformationItem-ResourceStatInd PRESENCE mandatory },
 ...
 }

SCH-InformationItem-ResourceStatInd ::= SEQUENCE {
 commonTransportChannelID CommonTransportChannelID,
 resourceOperationalState ResourceOperationalState,
 availabilityStatus AvailabilityStatus,
 iE-Extensions ProtocolExtensionContainer { { SCH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
 ...
 }

SCH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 ...
 }

PSCH-Information-ResourceStatInd ::= ProtocolIE-Container {{ PSCH-InformationItemIE-ResourceStatInd }}

PSCH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
 { ID id-PSCH-InformationItem-ResourceStatInd CRITICALITY ignore TYPE PSCH-InformationItem-ResourceStatInd PRESENCE mandatory },
 ...
 }

PSCH-InformationItem-ResourceStatInd ::= SEQUENCE {
 commonPhysicalChannelID CommonPhysicalChannelID,
 resourceOperationalState ResourceOperationalState,
 availabilityStatus AvailabilityStatus,
 iE-Extensions ProtocolExtensionContainer { { PSCH-InformationItem-ResourceStatInd-ExtIEs } } OPTIONAL,
 ...
 }

```

PSCH-InformationItem-ResourceStatInd-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 rejectignore          TYPE C-ID          PRESENCE mandatory }|
  { ID id-BCCH-ModificationTime CRITICALITY rejectignore    TYPE BCCH-ModificationTime PRESENCE mandatory }|
  { ID id-MIB-SIB-InformationList-SystemInfoUpdate CRITICALITY rejectignore    TYPE MIB-SIB-InformationList-SystemInfoUpdate PRESENCE optional }|
  },
  ...
}

SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MIB-SIB-InformationList-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIB)) OF
ProtocolIE-Container{{ MIB-SIB-InformationList-SystemInfoUpdateItemIE }}

MIB-SIB-InformationList-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-MIB-SIB-InformationList-SystemInfoUpdateItem CRITICALITY rejectignore    TYPE MIB-SIB-InformationList-SystemInfoUpdateItem PRESENCE optional }|
  },
  ...
}

MIB-SIB-InformationList-SystemInfoUpdateItem ::= SEQUENCE (SIZE (1..maxIB)) OF
SEQUENCE {
  ib-Type          IB-Type,
  sIB-DeletionIndicator SIB-DeletionIndicator,
  sIB-DeletionIndicator-SystemInfoUpdate SIB-DeletionIndicator-SystemInfoUpdate,
  iE-Extensions          ProtocolExtensionContainer { { MIB-SIB-InformationList-SystemInfoUpdateItem-ExtIEs } } OPTIONAL,
  ...
}

MIB-SIB-InformationList-SystemInfoUpdateItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

SIB-DeletionIndicator-SystemInfoUpdate ::= ENUMERATED-CHOICE {
  no-Delition          No-Delitionist-SystemInfoUpdate,
  ...
}

No-DelitionList-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
ProtocolIE-Container{ { No-DelitionList-SystemInfoUpdateItemIE } }

No-DelitionList-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
  { ID id--No-DelitionList-SystemInfoUpdateItem   CRITICALITY rejectignore      TYPE No-DelitionList-SystemInfoUpdateItem   PRESENCE optional },
  ...
}

No-DelitionList-SystemInfoUpdateItem ::= SEQUENCE {
  sIB-Originator          SsIB-Originator          OPTIONAL,
  segmentInformation      SegmentInformationList-SystemInfoUpdate,
  iE-Extensions          ProtocolExtensionContainer { { No-Delition-SystemInfoUpdateItem-ExtIEs } } OPTIONAL,
  ...
}

No-Delition-SystemInfoUpdateItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SegmentInformationList-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
ProtocolIE-Container{ { SegmentInformationList-SystemInfoUpdateItemIE } }

SegmentInformationList-SystemInfoUpdateItemIE NBAP-PROTOCOL-IES ::= {
  { ID id--SegmentInformationList-SystemInfoUpdateItem   CRITICALITY rejectignore      TYPE SegmentInformationList-SystemInfoUpdateItem
  PRESENCE optional
  },
  ...
}

SegmentInformationList-SystemInfoUpdateItem ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
SegmentInformation-SystemInfoUpdateItem ::= SEQUENCE {
  segmentType          SegmentType,
  iB-SG-REP            IB-SG-REP,
  iB-SG-POS           IB-SG-POS,
  iB-SG              IB-SG          OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { SegmentInformationList-SystemInfoUpdateItem-ExtIEs } } OPTIONAL,
  ...
}

SegmentInformationList-SystemInfoUpdateItem-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-CriticalityDiagnostic          CRITICALITY ignore          TYPE CriticalityDiagnostic          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-CriticalityDiagnostic          CRITICALITY ignore          TYPE CriticalityDiagnostic          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 rejectignore      TYPE CRNC-CommunicationContextID      PRESENCE mandatory }|
  { ID id-UL-DPCH-InformationItem-RL-SetupReq-FDD CRITICALITY rejectignore      TYPE UL-DPCH-InformationItem-RL-SetupReq-FDD PRESENCE mandatory }|
  { ID id-DL-DPCH-InformationItem-RL-SetupReq-FDD CRITICALITY rejectignore      TYPE DL-DPCH-InformationItem-RL-SetupReq-FDD PRESENCE mandatory }|
  { ID id-DCH-InformationList-RL-SetupReq-FDD CRITICALITY rejectignore      TYPE DCH-InformationList-RL-SetupReq-FDD PRESENCE mandatory }|
  { ID id-RL-ID                               CRITICALITY rejectignore      TYPE RL-ID                               PRESENCE optional }|
  { ID id-DSCH-TFCS-ID                               CRITICALITY rejectignore      TYPE DSCH-IDDSCH-TFCS                               PRESENCE optional }|
  { ID id-DSCH-InformationList-RL-SetupReq-FDD CRITICALITY rejectignore      TYPE DSCH-InformationList-RL-SetupReq-FDD PRESENCE optional }|
  { ID id-RL-InformationList-RL-SetupReq-FDD CRITICALITY notifyignore      TYPE RL-InformationList-RL-SetupReq-FDD PRESENCE mandatory },
  ...
}

```

```

RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

UL-DPCH-InformationItem-RL-SetupReq-FDD ::= SEQUENCE {
  ul-ScramblingCode          UL-ScramblingCode,
  minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
  maxNumberOfUL-DPDCHs      MaxNumberOfUL-DPDCHs OPTIONAL
  -- This IE is present only if "Min UL Channelisation Code length" equals to 4 -- ,
  ul-PunctureLimit          UL-PunctureLimit,
  transportFormatCombinationSet TransportFormatCombinationSet,
  ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat,
  ul-EbNo-Target             UL-Link-EbNo,
  diversityMode              DiversityMode,
  d-FieldLength              D-FieldLength OPTIONAL
  -- This IE is present only if Feed Back mode diversity is activated -- ,
  sSDT-CellIdentity-IDLength      SSdT-CellIdentity-IDLength OPTIONAL,
  s-FieldLength              S-FieldLength OPTIONAL,
  iE-Extensions                ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupReq-FDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

UL-DPCH-InformationItem-RL-SetupReq-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DL-DPCH-InformationItem-RL-SetupReq-FDD ::= SEQUENCE {
  transportFormatCombinationSet TransportFormatCombinationSet,
  dl-DPCH-SlotFormat            DL-DPCH-SlotFormat,
  tFCI-SignallingMode           TFCI-SignallingMode,
  multiplexingPosition7          MultiplexingPosition,
  tFCI-Presence                  TFCI-Presence,
  powerOffsetInformationItem-RL-SetupReq-FDD
  PowerOffsetInformationItem-RL-SetupReq-FDD,
  deltaTPC                       DeltaTPC,
  iE-Extensions                ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupReq-FDD-ExtIEs } } OPTIONAL,
  ...
}

```

```
DL-DPCH-InformationItem-RL-SetupReq-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
PowerOffsetInformationItem-RL-SetupReq-FDD ::= SEQUENCE {
  p01          PowerOffset,
  p02          PowerOffset,
  p03          PowerOffset,
  iE-Extensions ProtocolExtensionContainer { { PowerOffsetInformationItem-RL-SetupReq-FDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
PowerOffsetInformationItem-RL-SetupReq-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DCH-InformationList-RL-SetupReq-FDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container{ {DCH-InformationList-RL-SetupReq-FDDItemIE } }
```

```
DCH-InformationList-RL-SetupReq-FDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationList-RL-SetupReq-FDDItem CRITICALITY rejectignore TYPE DCH-InformationList-RL-SetupReq-FDDItem PRESENCE mandatory },
  ...
}
```

```
DCH-InformationList-RL-SetupReq-FDDItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  SEQUENCE {
    dCH-ID          DCH-ID,
    dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
    rLC-Mode        RLC-Mode,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode      UL-FP-Mode,
    toAWS           ToAWS,
    toAWE           ToAWE,
    iE-Extensions  ProtocolExtensionContainer { { DCH-InformationList-RL-SetupReq-FDDItem-ExtIEs } } OPTIONAL,
    ...
  }
}
```

```
DCH-InformationList-RL-SetupReq-FDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DSCH-InformationList-RL-SetupReq-FDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
  ProtocolIE-Container{ {DSCH-InformationList-RL-SetupReq-FDDItemIE } }
```

```
DSCH-InformationList-RL-SetupReq-FDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationList-RL-SetupReq-FDDItem CRITICALITY rejectignore TYPE DSCH-InformationList-RL-SetupReq-FDDItem PRESENCE mandatory },
  ...
}
```



```

DSCH-InformationList-RL-SetupReq-FDDItem ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
SEQUENCE {
    dSCH-ID          DSCH-ID,
    dSCH-TransportFormatSet  DSCH-TransportFormatSet,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS            ToAWS,
    toAWE            ToAWE,
    iE-Extensions   ProtocolExtensionContainer { { DSCH-InformationList-RL-SetupReq-FDDItem-ExtIEs } } OPTIONAL,
    ...
}

DSCH-InformationList-RL-SetupReq-FDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-SetupReq-FDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
ProtocolIE-Container{{RL-Information-RL-SetupReq-FDDItemIE }}

RL-Information-RL-SetupReq-FDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-SetupReq-FDDItem CRITICALITY notifyignore TYPE RL-Information-RL-SetupReq-FDDItem PRESENCE optional },
    ...
}

RL-Information-RL-SetupReq-FDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    c-ID           C-ID,
    frameOffset    FrameOffset,
    chipOffset     ChipOffset,
    propagationDelay  PropagationDelay,
    diversityControlField  DiversityControlField OPTIONAL,
    -- This IE is present only if the RL is not the first one in the RL Information
    dl-CodeInformationList-RL-SetupReqFDD          DL-CodeInformationList-RL-SetupReqFDD,
    initialDL-transmissionPower DL-Power,
    maximumDL-power          DL-Power,
    minimumDL-power          DL-Power,
    sSDT-CellIdentity        SSdT-CellIdentity OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { RL-Information-RL-SetupReq-FDDItem-ExtIEs } } OPTIONAL,
    ...
}

RL-Information-RL-SetupReq-FDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-SetupReqFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
ProtocolIE-Container{{DL-CodeInformation-RL-SetupReqFDDItemIE }}

DL-CodeInformation-RL-SetupReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformation-RL-SetupReqFDDItem CRITICALITY ignore TYPE DL-CodeInformation-RL-SetupReqFDDItem PRESENCE optional },
    ...
}

```

```
DL-CodeInformation-RL-SetupReqFDDItem ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    iE-Extensions              ProtocolExtensionContainer { { DL-CodeInformationList-RL-SetupReqFDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
DL-CodeInformationList-RL-SetupReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
-- *****
--
-- RADIO LINK SETUP REQUEST TDD
--
-- *****
```

```
RadioLinkSetupRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupRequestTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}}
    ...
}
```

```
RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID CRITICALITY rejectignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
    { ID id-UL-CCH-InformationList-RL-SetupReqTDD CRITICALITY notifyignore TYPE UL-CCH-InformationList-RL-SetupReqTDD PRESENCE optional } |
    { ID id-UL-DPCH-InformationList-RL-SetupReqTDD CRITICALITY notify TYPE UL-DPCH-InformationList-RL-SetupReqTDD PRESENCE optional } |
    { ID id-DL-CCH-InformationList-RL-SetupReqTDD CRITICALITY notifyignore TYPE DL-CCH-InformationList-RL-SetupReqTDD PRESENCE optional } |
    { ID id-DL-DPCH-InformationList-RL-SetupReqTDD CRITICALITY notify TYPE DL-DPCH-InformationList-RL-SetupReqTDD PRESENCE optional } |
    { ID id-DCH-InformationList-RL-SetupReqTDD CRITICALITY rejectignore TYPE DCH-InformationList-RL-SetupReqTDD PRESENCE optional } |
    { ID id-DSCH-InformationList-RL-SetupReqTDD CRITICALITY rejectignore TYPE DSCH-InformationList-RL-SetupReqTDD PRESENCE optional } |
    { ID id-USCH-InformationList-RL-SetupReqTDD CRITICALITY rejectignore TYPE USCH-InformationList-RL-SetupReqTDD PRESENCE optional } |
    { ID id-RL-InformationItem-RL-SetupReqTDD CRITICALITY rejectignore TYPE RL-InformationItem-RL-SetupReqTDD PRESENCE mandatory },
    ...
}
```

```
RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
UL-CCH-InformationList-RL-SetupReqTDD ::= CCH-ContainerList {{UL-CCH-InformationItemIE-RL-SetupReqTDD}}
```

```
UL-CCH-InformationItemIE-RL-SetupReqTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCH-InformationItem-RL-SetupReqTDD CRITICALITY notify TYPE UL-CCH-InformationItem-RL-SetupReqTDD PRESENCE mandatory },
    ...
}
```

```
UL-CCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE(1..maxnoofCCHs)) OF
    ProtocolIE-Container{{UL-CCH-Information-RL-SetupReqTDDItemIE}}
```

```
UL-CCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE UL-CCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
    ...
}
```

```

}
}
UL-CCTrCH-InformationItem-RL-SetupReqTDDItem ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    transportFormatCombinationSet  TransportFormatCombinationSet,
    tFCI-Coding        TFCI-Coding,
    puncturing-Limit   Puncturing-Limit,
ul-DPCH-InformationList-RL-SetupReqTDD UL-DPCH-InformationList-RL-SetupReqTDD OPTIONAL
    iE-Extensions      ProtocolExtensionContainer {{ UL-CCTrCH-InformationItem-RL-SetupReqTDD-ExtIEs } } OPTIONAL,
}
}
UL-CCTrCH-InformationItem-RL-SetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
}
UL-DPCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
ProtocolIE-Container{{UL-DPCH-Information-RL-SetupReqTDDItemIE}}
UL-DPCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE UL-DPCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
}
}
UL-DPCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
    dpch-ID          DPCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    burstType        BurstType,
    midambleShift    MidambleShift,
    timeSlot         TimeSlot,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    repetitionPeriod  RepetitionPeriod,
    repetitionLength  RepetitionLength,
    tFCI-Presence     TFCI-Presence_
}
iE-Extensions ProtocolExtensionContainer {{ UL-DPCH-InformationItem-RL-SetupReqTDD-ExtIEs } } OPTIONAL,
}
}
UL-DPCH-InformationItem-RL-SetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
}
DL-CCTrCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoCCTrCHs)) OF
ProtocolIE-Container{{DL-CCTrCH-Information-RL-SetupReqTDDItemIE}}
DL-CCTrCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DL-CCTrCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE DL-CCTrCH-Information-RL-SetupReqTDDItem PRESENCE mandatory },
}
}

```

```

DL-CCTrCH-InformationList-RL-SetupReqTDD ::= CCTrCH-ContainerList {{DL-CCTrCH-InformationItem-RL-SetupReqTDD}}

DL-CCTrCH-InformationItem-RL-SetupReqTDD NBAP-PROTOCOL-IES ::= {
  ID id-DL-CCTrCH-InformationItem-RL-SetupReqTDD CRITICALITY notify TYPE DL-CCTrCH-InformationItem-RL-SetupReqTDD PRESENCE mandatory },
  ...
}

DL-CCTrCH-InformationItem-RL-SetupReqTDD-Item ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  transportFormatCombinationSet  TransportFormatCombinationSet,
  tFCI-Coding        TFCI-Coding,
  puncturing-Limit   Puncturing-Limit,
  dl-DPCH-InformationList-RL-SetupReqTDD DL-DPCH-InformationList-RL-SetupReqTDD OPTIONAL
  ie-Extensions ProtocolExtensionContainer {{ DL-CCTrCH-InformationItem-RL-SetupReqTDD-ExtIEs } } OPTIONAL,
  ...
}

DL-CCTrCH-InformationItem-RL-SetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
ProtocolIE-Container{{DL-DPCH-Information-RL-SetupReqTDDItemIE}}

DL-DPCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE DL-DPCH-Information-RL-SetupReqTDDItem PRESENCE mandatory},
  ...
}

DL-DPCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  dpch-ID          DPCH-ID,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  burstType        BurstType,
  midambleShift    MidambleShift,
  timeSlot         TimeSlot,
  tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
  repetitionPeriod  RepetitionPeriod,
  repetitionLength  RepetitionLength,
  tFCI-Presence     TFCI-Presence,
  ie-Extensions ProtocolExtensionContainer {{ DL-DPCH-InformationItem-RL-SetupReqTDD-ExtIEs } } OPTIONAL,
  ...
}

DL-DPCH-InformationItem-RL-SetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF DCH-Information-RL-SetupReqTDDItem
ProtocolIE-Container{{DCH-Information-RL-SetupReqTDDItemIE}}

```

```

DCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id DCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE DCH-Information-RL-SetupReqTDDItem PRESENCE mandatory},
  ...
}

```

```

DCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  dchID DCH-ID,
  rlc-Mode RLC-Mode,
  ul-CCTrCH-ID          UL-CCTrCH-ID,
  dl-CCTrCH-ID          DL-CCTrCH-ID,
  dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
  ul-TransportFormatSet TransportFormatSet,
  dl-TransportFormatSet TransportFormatSet,
  frameHandlingPriority FrameHandlingPriority,
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
  ul-FP-Mode            UL-FP-Mode,
  toAWSE                ToAWSE,
  toAWES                ToAWES,
  iE-Extensions       ProtocolExtensionContainer {{ DCH-InformationItem-RL-SetupReqTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DCH-InformationItem-RL-SetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DSCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF DSCH-Information-RL-SetupReqTDDItem
ProtocolIE-Container{{DSCH-Information-RL-SetupReqTDDItemIE}}

```

```

DSCH-Information-RL-SetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id DCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE DSCH-Information-RL-SetupReqTDDItem PRESENCE mandatory}
  ...
}

```

```

DSCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  dsch-ID              DSCH-ID,
  cCtRch-ID           CCTrCH-ID,
  transportFormatSet TransportFormatSet,
  frameHandlingPriority FrameHandlingPriority,
  toAWSE              ToAWSE,
  toAWES              ToAWES,
  iE-Extensions       ProtocolExtensionContainer {{ DSCH-InformationItem-RL-SetupReqTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DSCH-InformationItem-RL-SetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

USCH-InformationList-RL-SetupReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF USCH-Information-RL-SetupReqTDDItem
ProtocolIE-Container{{USCH-Information-RL-SetupReqTDDItemIE}}

```

```

USCH-Information-RL-SetupReqTDDItem-IE NBAP-PROTOCOL-IES ::= {
  {ID id-USCH-Information-RL-SetupReqTDDItem CRITICALITY ignore TYPE USCH-Information-RL-SetupReqTDDItem PRESENCE mandatory}
  ...
}

```

```

USCH-Information-RL-SetupReqTDDItem ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  cCTrCH-ID        CCTrCH-ID,
  transportFormatSet TransportFormatSet,
  iE-Extensions    ProtocolExtensionContainer {{ USCH-InformationItem-RL-SetupReqTDD-ExtIEs }} OPTIONAL,
  ...
}

```

```

USCH-InformationItem-RL-SetupReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

RL-InformationItem-RL-SetupReqTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  c-ID           C-ID,
  frameTDDPhysicalChannelOffset FrameTDDPhysicalChannelOffset,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  initialDL-transmissionPower DL-Power,
  maximumDL-power            DL-Power,
  minimumDL-power            DL-Power,
  iE-Extensions              ProtocolExtensionContainer {{ RL-Information-RL-SetupReqTDD-ExtIEs }} OPTIONAL,
  ...
}

```

```

RL-Information-RL-SetupReqTDD-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-setupResFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-setupResFDD PRESENCE mandatory }|
}

```

```

_____ { ID id-CriticalityDiagnostic          CRITICALITY ignore      TYPE CriticalityDiagnostic      PRESENCE optional
  },
  ...
}

RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationResponseList-RL-setupResFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container{{RL-InformationResponse-RL-setupResFDDItemIE }}

RL-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponse-RL-setupResFDDItem CRITICALITY ignore      TYPE RL-InformationResponse-RL-setupResFDDItem      PRESENCE mandatory },
  ...
}

RL-InformationResponse-RL-setupResFDDItem ::= SEQUENCE {
  rL-ID                RL-ID,
  ul-InterferenceLevel      UL-InterferenceLevel,
  diversityIndication      DiversityIndication OPTIONAL,
  -- This IE is present only if the RL is not the first one in the RL Information
  dSCH-InformationResponse-RL-setupResFDD      DSCH-InformationResponseList-RL-setupResFDD      OPTIONAL,
  sSDT-SupportIndicator      SSDT-SupportIndicator,
  iE-Extensions          ProtocolExtensionContainer { { RL-InformationResponse-RL-setupResFDDItem-ExtIEs } } OPTIONAL,
  ...
}

RL-InformationResponse-RL-setupResFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DiversityIndication ::= ENUMERATED-CHOICE {
  combining          Combining-RL-setupResFDDItem,
  non-Combining      Non-Combining-RL-setupResFDDItem,
  ...
}

Combining-RL-setupResFDD ::= ProtocolIE-Container {{ CombiningItemIE-RL-setupResFDD }}

CombiningItemIE-RL-setupResFDD NBAP-PROTOCOL-IES ::= {
  _____ { ID id-CombiningItem-RL-setupResFDD      CRITICALITY ignore      TYPE CombiningItem-RL-setupResFDD      PRESENCE mandatory },
  ...
}

CombiningItem-RL-setupResFDD ::= SEQUENCE {
  dCH-ID                DCH-ID,
  iE-Extensions          ProtocolExtensionContainer { { CombiningItem-RL-setupResFDD-ExtIEs } } OPTIONAL,
  ...
}

CombiningItem-RL-setupResFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

Non-Combining-RL-setupResFDD ::= ProtocolIE-Container {{ Non-CombiningItemIE-RL-setupResFDD }}

Non-CombiningItemIE-RL-setupResFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-setupResFDD CRITICALITY ignore TYPE Non-CombiningItem-RL-setupResFDD PRESENCE mandatory },
    ...
}

Non-CombiningItem-RL-setupResFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-setupResFDD DCH-InformationResponseList-RL-setupResFDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer {{ Non-CombiningItem-RL-setupResFDD-ExtIEs }} OPTIONAL,
    ...
}

Non-CombiningItem-RL-setupResFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-setupResFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container{{DCH-InformationResponse-RL-setupResFDDItemIE }}

DCH-InformationResponse-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse-RL-setupResFDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-setupResFDDItem PRESENCE mandatory
    }
    ...
}

DCH-InformationResponse-RL-setupResFDDItem ::= SEQUENCE {
    dCH-ID DCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions ProtocolExtensionContainer {{ DCH-InformationResponseList-RL-setupResFDD-ExtIEs }} OPTIONAL,
    ...
}

DCH-InformationResponseList-RL-setupResFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponseList-RL-setupResFDD ::= SEQUENCE (SIZE (1..numofDSCH)) OF
    ProtocolIE-Container{{DSCH-InformationResponseList-RL-setupResFDDItemIE }}

-- ** TODO **
numofDSCH INTEGER ::= 10

DSCH-InformationResponseList-RL-setupResFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseList-RL-setupResFDDItem CRITICALITY ignore TYPE DSCH-InformationResponseList-RL-setupResFDDItem
    PRESENCE mandatory
    },
    ...
}

```



```

DSCH-InformationResponseList-RL-setupResFDDItem ::= SEQUENCE (SIZE (1..numofDSCH)) OF
  SEQUENCE {
    dSCH-ID          DSCH-ID,
    bindingID        BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions    ProtocolExtensionContainer { { DSCH-InformationResponseList-RL-setupResFDDItem-ExtIEs } } OPTIONAL,
    ...
  }

DSCH-InformationResponseList-RL-setupResFDDItem-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-Information-RL-setupResTDD     CRITICALITY ignore TYPE RL-InformationResponse-RL-setupResTDD     PRESENCE mandatory }|
{ ID id-DSCH-InformationResponseList-RL-setupResTDD CRITICALITY ignore TYPE DSCH-InformationResponseList-RL-setupResTDD PRESENCE optional }|
{ ID id-USCH-InformationResponseList-RL-setupResTDD CRITICALITY ignore TYPE USCH-InformationResponseList-RL-setupResTDD PRESENCE optional }|
}}
  { ID id-CriticalityDiagnostic             CRITICALITY ignore TYPE CriticalityDiagnostic             PRESENCE optional
  },
  ...
}

RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationResponseList-RL-setupResTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  dCH-InformationResponseList-RL-setupResTDD          DCH-InformationResponseList-RL-setupResTDD,
dsCH-InformationResponseList-RL-setupResTDD          DSCH-InformationResponseList-RL-setupResTDD,
usCH-InformationResponseList-RL-setupResTDD          USCH-InformationResponseList-RL-setupResTDD,
  iE-Extensions    ProtocolExtensionContainer { { RL-InformationResponse-RL-SetupResTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

RL-InformationResponse-RL-SetupResTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DCH-InformationResponseList-RL-setupResTDD ::= SEQUENCE (SIZE (1..maxnumofDCHs)) OF ProtocolIE-Container{{DCH-InformationResponseList-RL-setupResTDDItemIEs }}

```

```

-DCH-InformationResponseList-RL-setupResTDDItemIEs NBAP-PROTOCOL-IES ::= {
    { I-D id-DCH-InformationResponseListIE-RL-setupResTDDItem CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-setupResTDDItem PRESENCE mandatory },
    ...
}

```

```

DCH-InformationResponseListIE-RL-setupResTDD ::= SEQUENCE (SIZE(1..maxnoofDCHs)) OF DCH-InformationResponse-RL-setupResTDDItem

```

```

-DCH-InformationResponse-RL-setupResTDDItem ::= SEQUENCE {
    dCH-ID DCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions ProtocolExtensionContainer {{ DCH-InformationResponseItem-RL-SetupResTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DCH-InformationResponseItem-RL-SetupResTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DSCH-InformationResponseList-RL-SetupResTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF ProtocolIE-Container{{DSCH-InformationResponse-RL-SetupResTDDItemIE}}

```

```

DSCH-InformationResponse-RL-SetupResTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse-RL-SetupResTDDItem CRITICALITY ignore TYPE DSCH-InformationResponse-RL-SetupResTDDItem PRESENCE mandatory },
    ...
}

```

```

DSCH-InformationResponseList-RL-setupResTDD ::= ProtocolIE-Container{{DSCH-InformationResponseList-RL-setupResTDDItemIEs }}

```

```

DSCH-InformationResponseList-RL-setupResTDDItemIEs NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-setupResTDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-setupResTDD PRESENCE mandatory },
    ...
}

```

```

DSCH-InformationResponseListIE-RL-setupResTDD ::= SEQUENCE (SIZE(1..maxnoofDCHs)) OF DSCH-InformationResponse-RL-SetupResTDDItem

```

```

DSCH-InformationResponse-RL-SetupResTDDItem ::= SEQUENCE {
    dSCH-ID DSCH-ID,
    binding-ID Binding-ID,
    transport-Layer-Address Transport-Layer-Address,
    iE-Extensions ProtocolExtensionContainer {{ DSCH-InformationItem-RL-SetupResTDD-ExtIEs } } OPTIONAL,

```



```

| { I-D id-CommunicationControlPortID          CRITICALITY ignore
TYPE CommunicationControlPortID          PRESENCE mandatory }|
| { ID id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD
CRITICALITY ignore                        TYPE Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD
PRESENCE mandatory                       }|
| { ID id-Successful-RL-InformationResponseList-RL-SetupFailFDD
CRITICALITY ignore                        TYPE Successful-RL-InformationResponseList-RL-SetupFailFDD
PRESENCE optional                         }|
| { ID id-CriticalityDiagnostic              CRITICALITY ignore      TYPE CriticalityDiagnostic      PRESENCE optional
},
...
}

RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
ProtocolIE-Container  {{Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItemIE }}

Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem
CRITICALITY ignore                        TYPE Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem
PRESENCE optional                         },
...
}

Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem ::= SEQUENCE {
rL-ID          RL-ID,
cause          Cause,
iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem-ExtIEs } } OPTIONAL,
...
}

Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Successful-RL-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1.. maxnoofRLs-1)) OF
ProtocolIE-Container  {{Successful-RL-InformationResponse-RL-SetupFailFDDItemIE }}

Successful-RL-InformationResponse-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-Successful-RL-InformationResponse-RL-SetupFailFDDItem
CRITICALITY ignore                        TYPE Successful-RL-InformationResponse-RL-SetupFailFDDItem
PRESENCE optional                         },
...
}

Successful-RL-InformationResponse-RL-SetupFailFDDItem ::= SEQUENCE {
rL-ID          RL-ID,
ul-InterferenceLevel      UL-InterferenceLevel,

```

```

diversityIndication      DiversityIndication,
dSCH-InformationResponseList-RL-SetupFailFDD      DSCH-InformationResponseList-RL-SetupFailFDD  OPTIONAL,
sSDT-SupportIndicator    SSdT-SupportIndicator,
iE-Extensions            ProtocolExtensionContainer { { Successful-RL-InformationResponse-RL-SetupFailFDDItem-ExtIEs } } OPTIONAL,
...
}

Successful-RL-InformationResponse-RL-SetupFailFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndicationRL-SetupFailFDD ::= ENUMERATED-CHOICE {
  combining      Combining-RL-SetupFailFDD,
  non-combining  Non-Combining-RL-SetupFailFDD,
  ...
}

Combining-RL-SetupFailFDD ::= ProtocolIE-Container { { CombiningItemIE-RL-SetupFailFDD } }

CombiningItemIE-RL-SetupFailFDD NBAP-PROTOCOL-IES ::= {
  ID id-CombiningItem-RL-SetupFailFDD  CRITICALITY ignore  TYPE CombiningItem-RL-SetupFailFDD  PRESENCE mandatory },
  ...
}

CombiningItem-RL-SetupFailFDD ::= SEQUENCE {
  rL-ID      RL-ID,
  iE-Extensions      ProtocolExtensionContainer { { CombiningItem-RL-SetupFailFDD-ExtIEs } } OPTIONAL,
  ...
}

CombiningItem-RL-SetupFailFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Non-Combining-RL-SetupFailFDD ::= ProtocolIE-Container { { Non-CombiningItemIE-RL-SetupFailFDD } }

Non-CombiningItemIE-RL-SetupFailFDD NBAP-PROTOCOL-IES ::= {
  ID id-Non-CombiningItem-RL-SetupFailFDD  CRITICALITY ignore  TYPE Non-CombiningItem-RL-SetupFailFDD  PRESENCE mandatory },
  ...
}

Non-CombiningItem-RL-SetupFailFDD ::= SEQUENCE {
  dCH-InformationResponseList-RL-SetupFailFDD      _____DCH-InformationResponseList-RL-SetupFailFDD OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { Non-CombiningItem-RL-SetupFailFDD-ExtIEs } } OPTIONAL,
  ...
}

Non-CombiningItem-RL-SetupFailFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1.. maxnoofDCHs)) OF
  ProtocolIE-Container{ {DCH-InformationResponse-RL-SetupFailFDDItemIE } }

```

```

DCH-InformationResponse-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
  ID id-DCH-InformationResponse-RL-SetupFailFDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-SetupFailFDDItem PRESENCE
  mandatory },
  ...
}

```

```

DCH-InformationResponse-RL-SetupFailFDDItem ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { { DCH-InformationResponseList-RL-SetupFailFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DCH-InformationResponseList-RL-SetupFailFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DSCH-InformationResponseList-RL-SetupFailFDD ::= SEQUENCE (SIZE (1..numofDSCH)) OF
  ProtocolIE-Container { { DSCH-InformationResponseList-RL-SetupFailFDDItemIE } }

```

```

DSCH-InformationResponseList-RL-SetupFailFDDItemIE NBAP-PROTOCOL-IES ::= {
  ID id-DSCH-InformationResponseList-RL-SetupFailFDDItem CRITICALITY ignore TYPE DSCH-InformationResponseList-RL-SetupFailFDDItem
  PRESENCE mandatory },
  ...
}

```

```

DSCH-InformationResponseList-RL-SetupFailFDDItem ::= SEQUENCE (SIZE (1..numofDSCH)) OF
  SEQUENCE {
    dSCH-ID DSCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions ProtocolExtensionContainer { { DSCH-InformationResponseList-RL-SetupFailFDDItem-ExtIEs } } OPTIONAL,
    ...
  }

```

```

DSCH-InformationResponseList-RL-SetupFailFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- RADIO LINK SETUP FAILURE TDD
--
-- *****

```

```

RadioLinkSetupFailureTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container { { RadioLinkSetupFailureTDD-IEs } },
  protocolExtensions ProtocolExtensionContainer { { RadioLinkSetupFailureTDD-Extensions } } OPTIONAL,
  ...
}

```

```

RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID      CRITICALITY ignore      TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD CRITICALITY ignore
TYPE      Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD
PRESENCE  mandatory
} |
  { ID id-CriticalityDiagnostic            CRITICALITY ignore      TYPE CriticalityDiagnostic      PRESENCE optional
  },
  ...
}

RadioLinkSetupFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  cause         Cause,
  iE-Extensions ProtocolExtensionContainer {{ Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD-ExtIEs } } OPTIONAL,
  ...
}

Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK ADDITION REQUEST FDD
--
-- *****

RadioLinkAdditionRequestFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{RadioLinkAdditionRequestFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
  ...
}

RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID      CRITICALITY rejectignore      TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
  { ID id-RL-InformationList-RL-Add-ReqFDD  CRITICALITY notifyignore      TYPE RL-InformationList-RL-Add-ReqFDD  PRESENCE optional },
  ...
}

RadioLinkAdditionRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkAdditionRequestFDD-PrivateExtensions NBAP-PRIVATE-EXTENSION ::= {
  ...
}

```

```

RL-InformationList-RL-Add-ReqFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
  ProtocolIE-Container {{RL-InformationList-RL-Add-ReqFDDItemIE }}

RL-InformationList-RL-Add-ReqFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationList-RL-Add-ReqFDDItem   CRITICALITY notifyignore           TYPE RL-InformationList-RL-Add-ReqFDDItem   PRESENCE mandatory
  },
  ...
}

RL-InformationList-RL-Add-ReqFDDItem ::= SEQUENCE {
  rL-ID          RL-ID,
  c-ID          C-ID,
  frameOffset   FrameOffset,
  chipOffset    ChipOffset,
  diversityControlField DiversityControlField,
  dl-CodeInformationList-RL-Add-ReqFDD                DL-CodeInformationList-RL-Add-ReqFDD,
  initialDL-TransmissionPower DL-Power,
  maximumDL-Power          DL-Power          OPTIONAL,
  minimumDL-Power          DL-Power          OPTIONAL,
  sSDT-CellIdentity        SSDT-CellIdentity OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { { RL-InformationList-RL-Add-ReqFDDItem-ExtIEs } } OPTIONAL,
  ...
}

RL-InformationList-RL-Add-ReqFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CodeInformationList-RL-Add-ReqFDD ::= SEQUENCE (SIZE (1..maxnoofDLCodes)) OF
  ProtocolIE-Container {{ DL-CodeInformationList-RL-Add-ReqFDDItemIE }}

DL-CodeInformationList-RL-Add-ReqFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationList-RL-Add-ReqFDD CRITICALITY ignore TYPE DL-CodeInformationList-RL-Add-ReqFDD PRESENCE mandatory },
  ...
}

DL-CodeInformationList-RL-Add-ReqFDD ::= SEQUENCE {
  scramblingCode          ScramblingCode,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  iE-Extensions            ProtocolExtensionContainer { { DL-CodeInformationList-RL-Add-ReqFDD-ExtIEs } } OPTIONAL,
  ...
}

DL-CodeInformationList-RL-Add-ReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

```



```

RadioLinkAdditionRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{RadioLinkAdditionRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer    {{RadioLinkAdditionRequestTDD-Extensions}}
    ...
}

RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY rejectignore          TYPE NodeB-CommunicationContextID          PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationList-RL-Add-ReqTDD CRITICALITY rejectignore          TYPE UL-CCTrCHInformationList-RL-Add-ReqTDD PRESENCE optional } |
    { ID id-UL-DPCH-InformationList                CRITICALITY notifyignore          TYPE UL-DPCH-InformationList-RL-Add-ReqTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-Add-ReqTDD CRITICALITY rejectignore          TYPE DL-CCTrCHInformationList-RL-Add-ReqTDD PRESENCE optional } |
    { ID id-DL-DPCH-InformationList                CRITICALITY notifyignore          TYPE DL-DPCH-InformationList-RL-Add-ReqTDD PRESENCE optional } |
    { ID id-RL-Information-RL-Add-ReqTDD          CRITICALITY rejectignore          TYPE RL-Information-RL-Add-ReqTDD          PRESENCE mandatory } ,
    ...
}

RadioLinkAdditionRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCHInformationList-RL-Add-ReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF UL-CCTrCHInformation-RL-Add-ReqTDDItem
ProtocolIE-Container {{UL-CCTrCHInformation-RL-Add-ReqTDDItemIE}}

UL-CCTrCHInformation-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCHInformation-RL-Add-ReqTDDItem CRITICALITY ignore TYPE UL-CCTrCHInformation-RL-Add-ReqTDDItem PRESENCE mandatory },
...
}

UL-CCTrCHInformation-RL-Add-ReqTDDItem ::= SEQUENCE {
    cCtRch-ID          CCTrCH-ID,
    ul-DPCH-InformationList UL-DPCH-InformationList-RL-Add-ReqTDD OPTIONAL
    ie-Extensions          ProtocolExtensionContainer {{ UL-CCTrCHInformationItem-RL-Add-ReqTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCHInformationItem-RL-Add-ReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationList-RL-Add-ReqTDD ::= DPCH-IE-ContainerListSEQUENCE (SIZE (1..maxnoofDPCHs)) OF
ProtocolIE-Container {{UL-DPCH-InformationList-RL-Add-ReqTDDItemIE}}

UL-DPCH-InformationList-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationList-RL-Add-ReqTDDItem          CRITICALITY notifyignore          TYPE UL-DPCH-InformationList-RL-Add-ReqTDDItem
    PRESENCE          mandatory
    },
    ...
}

UL-DPCH-InformationList-RL-Add-ReqTDDItem ::= SEQUENCE {
    dpch-ID          DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,

```

```

burstType          BurstType,
midambleShift      MidambleShift,
timeSlot           TimeSlot,
tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
repetitionPeriod   RepetitionPeriod,
repetitionLength   RepetitionLength,
tFCI-Presence      TFCI-Presence,
iE-Extensions      ProtocolExtensionContainer {{ UL-DPCH-InformationListItem-RL-Add-ReqTDD-ExtIEs } } OPTIONAL,
...
}

UL-DPCH-InformationListItem-RL-Add-ReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCHInformationList-RL-Add-ReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF DL-CCTrCHInformationList-RL-Add-ReqTDDItem
ProtocolIE-Container {{ DL-CCTrCHInformationList-RL-Add-ReqTDDItemIE }}

DL-CCTrCHInformationList-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DL-CCTrCHInformationList-RL-Add-ReqTDDItem CRITICALITY ignore TYPE DL-CCTrCHInformationList-RL-Add-ReqTDDItem PRESENCE
mandatory
}
...
}

DL-CCTrCHInformationList-RL-Add-ReqTDDItem ::= SEQUENCE {
cCTrCH-ID          CCTrCH-ID,
dl-DPCH-InformationList-RL-Add-ReqTDD DL-DPCH-InformationList-RL-Add-ReqTDD OPTIONAL
iE-Extensions      ProtocolExtensionContainer {{ DL-CCTrCHInformationListItem-RL-Add-ReqTDD-ExtIEs } } OPTIONAL,
...
}

DL-CCTrCHInformationListItem-RL-Add-ReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationList-RL-Add-ReqTDD ::= DPCH-IE-ContainerListSEQUENCE (SIZE (1..maxnoofDPCHs)) OF
ProtocolIE-Container {{ DL-DPCH-InformationList-RL-Add-ReqTDDItemIE }}

DL-DPCH-InformationList-RL-Add-ReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationList-RL-Add-ReqTDDItem CRITICALITY notifyignore TYPE DL-DPCH-InformationList-RL-Add-ReqTDDItem
PRESENCE mandatory
},
...
}

DL-DPCH-InformationList-RL-Add-ReqTDDItem ::= SEQUENCE {
dPCH-ID           DPCH-ID,
tdd-ChannelisationCode  TDD-ChannelisationCode,
burstType          BurstType,
midambleShift      MidambleShift,
timeSlot           TimeSlot,
tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,

```

```

    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tFCI-Presence         TFCI-Presence,
    iE-Extensions         ProtocolExtensionContainer {{ DL-DPCH-InformationListItem-RL-Add-ReqTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-InformationListItem-RL-Add-ReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationItem-RL-Add-ReqTDD ::= SEQUENCE {
    rL-ID                 RL-ID,
    c-ID                  C-ID,
    CFN                CFN OPTIONAL,
    frameOffset           FrameOffset,
    diversityControlField DiversityControlField,
    initial-DL-Power      DL-Power OPTIONAL,
    initial-DL-Transmission-Power DL-Power OPTIONAL,
    maximumDL-Power      DL-Power OPTIONAL,
    minimumDL-Power      DL-Power OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer {{ RL-InformationItem-RL-Add-ReqTDD-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationItem-RL-Add-ReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

RadioLinkAdditionResponseFDD ::= SEQUENCE {
    protocolIEs           ProtocolIE-Container    {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions    ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
    ...
}

RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID CRITICALITY ignore      TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
    { ID id-RL-ResponseInformationList-RL-Add-ResFDD CRITICALITY ignore      TYPE RL-ResponseInformationList-RL-Add-ResFDD PRESENCE mandatory }|
    { ID id-CriticalityDiagnostic CRITICALITY ignore      TYPE CriticalityDiagnostic PRESENCE optional }
    },
    ...
}

RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
RL-ResponseInformationList-RL-Add-ResFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
  ProtocolIE-Container {{RL-ResponseInformationList-RL-Add-ResFDDItemIE }}
```

```
RL-ResponseInformation-RL-Add-ResFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-ResponseInformation-RL-Add-ResFDDItem          CRITICALITY ignore          TYPE RL-ResponseInformation-RL-Add-ResFDDItem
    PRESENCE          mandatory
  },
  ...
}
```

```
RL-ResponseInformation-RL-Add-ResFDDItem ::= SEQUENCE {
  rL-ID          RL-ID,
  ul-InterferenceLevel      UL-InterferenceLevel,
  diversityIndication      DiversityIndication-RL-Add-ResFDD,
  sSDT-SupportIndicator      SSDT-SupportIndicator,
  iE-Extensions          ProtocolExtensionContainer { { RL-ResponseInformation-RL-Add-ResFDDItem-ExtIEs } } OPTIONAL,
  ...
}
```

```
RL-ResponseInformation-RL-Add-ResFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DiversityIndication-RL-Add-ResFDD ::= ENUMERATED-CHOICE {
  combining          Combining-RL-Add-ResFDD,
  non-combining      Non-Combining-RL-Add-ResFDD,
  ...
}
```

```
Combining-RL-Add-ResFDD ::= ProtocolIE-Container { { CombiningItemIE-RL-Add-ResFDD } }
```

```
CombiningItemIE-RL-Add-ResFDD NBAP-PROTOCOL-IES ::= {
{ ID id-CombiningItem-RL-Add-ResFDD          CRITICALITY ignore          TYPE CombiningItem-RL-Add-ResFDD          PRESENCE mandatory },
  ...
}
```

```
CombiningItem-RL-Add-ResFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  iE-Extensions          ProtocolExtensionContainer { { CombiningItem-RL-Add-ResFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
CombiningItem-RL-Add-ResFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
Non-Combining-RL-Add-ResFDD ::= ProtocolIE-Container { { Non-CombiningItemIE-RL-Add-ResFDD } }
```

```
Non-CombiningItemIE-RL-Add-ResFDD NBAP-PROTOCOL-IES ::= {
{ ID id-Non-CombiningItem-RL-Add-ResFDD          CRITICALITY ignore          TYPE Non-CombiningItem-RL-Add-ResFDD          PRESENCE mandatory },
  ...
}
```

```

}

Non-CombiningItem-RL-Add-ResFDD ::= SEQUENCE {
  dCH-InformationResponseList-RL-Add-ResFDD
  DCH-InformationResponseList-RL-Add-ResFDD,
  iE-Extensions ProtocolExtensionContainer { { Non-CombiningItem-RL-Add-ResFDD-ExtIEs} } OPTIONAL,
  ...
}

Non-CombiningItem-RL-Add-ResFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-Add-ResFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
  ProtocolIE-Container{{DCH-InformationResponseList-RL-Add-ResFDD-ItemIE}}

DCH-InformationResponseList-RL-Add-ResFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponseList-RL-Add-ResFDDItem CRITICALITY ignore TYPE DCH-InformationResponseList-RL-Add-
  ResFDDItem PRESENCE mandatory
  },
  ...
}

DCH-InformationResponseList-RL-Add-ResFDDItem ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { { DCH-InformationResponseList-RL-Add-ResFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationResponseList-RL-Add-ResFDD-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-Communication-Context-ID CRITICALITY ignore TYPE CRNC-Communication-Context-ID PRESENCE mandatory }|
  { ID id-RL-Information-RL-Add-ResptDD CRITICALITY ignore TYPE RL-Information-RL-Add-ResptDD PRESENCE mandatory }|
  { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
  },
  ...
}

```

```

}

RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-Add-RespTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    ul-InterferenceLevel  UL-InterferenceLevel,
    diversityIndication   DiversityIndication-RL-Add-RespTDD,
    dSCH-InformationResponseList  DSCH-InformationResponseList-RL-Add-RespTDD  OPTIONAL,
    uSCH-InformationResponseList  USCH-InformationResponseList-RL-Add-RespTDD  OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer {{ RL-InformationResponse-RL-Add-RespTDD-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationResponse-RL-Add-RespTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-Add-RespTDD ::= CHOICEENUMERATED {
    combining            Combining-RL-Add-RespTDD,
    non-Combining       Non-Combining-RL-Add-RespTDD,
    ...
}

Combining-RL-Add-ResTDD ::= ProtocolIE-Container {{ CombiningItemIE-RL-Add-ResTDD }}

CombiningItemIE-RL-Add-ResTDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-Add-ResTDD  CRITICALITY ignore  TYPE CombiningItem-RL-Add-ResTDD  PRESENCE mandatory },
    ...
}

CombiningItem-RL-Add-RespTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions         ProtocolExtensionContainer {{ Combining-RL-Add-RespTDD-ExtIEs } } OPTIONAL,
    ...
}

Combining-RL-Add-RespTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Non-Combining-RL-Add-ResTDD ::= ProtocolIE-Container {{ Non-CombiningItemIE-RL-Add-ResTDD }}

Non-CombiningItemIE-RL-Add-ResTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-Add-ResTDD  CRITICALITY ignore  TYPE Non-CombiningItem-RL-Add-ResTDD  PRESENCE mandatory },
    ...
}

Non-CombiningItem-RL-Add-RespTDD ::= SEQUENCE {
    dCH-InfomationResponseList  DCH-InformationResponseList-RL-Add-RespTDD  OPTIONAL,

```

```

dsch-InformationResponseList DSCH-InformationResponseList-RL-Add-RespTDD OPTIONAL,
usch-InformationResponseList USCH-InformationResponseList-RL-Add-RespTDD OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer {{ Non-Combining-RL-Add-RespTDD-ExtIEs }} OPTIONAL,

```

```

  ...
}

```

```

Non-Combining-RL-Add-RespTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

  ...
}

```

```

DCH-InformationResponseList-RL-Add-RespTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF DCH-InformationResponse-RL-Add-RespTDDItem
ProtocolIE-Container {{DCH-InformationResponse-RL-Add-RespTDDItemIE}}

```

```

DCH-InformationResponse-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
  {ID id-DCH-InformationResponse-RL-Add-RespTDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-Add-RespTDDItem PRESENCE mandatory
},
  ...
}

```

```

DCH-InformationResponse-RL-Add-RespTDDItem ::= SEQUENCE {
  dch-ID          DCH-ID,
  binding-ID      Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions  ProtocolExtensionContainer {{ DCH-InformationResponseItem-RL-Add-RespTDD-ExtIEs }} OPTIONAL,

```

```

  ...
}

```

```

DCH-InformationResponseItem-RL-Add-RespTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

  ...
}

```

```

DSCH-InformationResponseList-RL-Add-RespTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
  ProtocolIE-Container {{DSCH-InformationResponse-RL-Add-RespTDDItemIE}}

```

```

DSCH-InformationResponse-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
  {ID id-DSCH-InformationResponseList-RL-Add-RespTDDItem CRITICALITY ignore TYPE DSCH-InformationResponseList-RL-Add-RespTDDItem PRESENCE
  mandatory
},
  ...
}

```

```

DSCH-InformationResponseList-RL-Add-RespTDDItem ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF DSCH-InformationResponse-RL-Add-RespTDDItem

```

```

DSCH-InformationResponse-RL-Add-RespTDDItem ::= SEQUENCE {
  dsch-ID          DSCH-ID,
  binding-ID      Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions  ProtocolExtensionContainer {{ DSCH-InformationResponseItem-RL-Add-RespTDD-ExtIEs }} OPTIONAL,

```

```

  ...
}

```

```

DSCH-InformationResponseItem-RL-Add-RespTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

  ...
}

```

```
USCH-InformationResponseList-RL-Add-RespTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF ProtocolIE-Container {{USCH-InformationResponseList-RL-Add-RespTDD-ItemIE}}
```

```
USCH-InformationResponseList-RL-Add-RespTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationResponseList-RL-Add-RespTDDItem CRITICALITY ignore TYPE USCH-InformationResponseList-RL-Add-RespTDDItem PRESENCE mandatory },
  ...
}
```

```
USCH-InformationResponseList-RL-Add-RespTDDItem ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF DSCH-InformationResponse-RL-Add-RespTDDItem
```

```
USCH-InformationResponseList-RL-Add-RespTDDItem ::= SEQUENCE {
  uSCH-ID USCH-ID,
  binding-ID Binding-ID,
  transport-Layer-Address Transport-Layer-Address,
  iE-Extensions ProtocolExtensionContainer {{ USCH-InformationResponseItem-RL-Add-RespTDD-ExtIEs }} OPTIONAL,
  ...
}
```

```
USCH-InformationResponseItem-RL-Add-RespTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****
```

```
RadioLinkAdditionFailureFDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkAdditionFailureFDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}} OPTIONAL,
  ...
}
```

```
RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResponseList-RL-Add-FailFDD PRESENCE mandatory } |
  { ID id-Successful-RL-InformationResponseList-RL-Add-FailFDD CRITICALITY ignore TYPE Successful-RL-InformationResponseList-RL-Add-FailFDD PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional },
  ...
}
```

```
RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```



```

Unsuccessful-RL-InformationResponseList-RL-Add-FailFDD ::= SEQUENCE (SIZE (1..maxnoofRL-1)) OF
  ProtocolIE-Container {{Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItemIE }}

Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem CRITICALITY ignore TYPE Unsuccessful-RL-
  InformationResponseList-RL-Add-FailFDDItem PRESENCE mandatory },
  ...
}

Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem ::= SEQUENCE {
  rL-ID RL-ID,
  cause Cause,
  iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem-ExtIEs } } OPTIONAL,
  ...
}

Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Successful-RL-InformationResponseList-RL-Add-FailFDD ::= SEQUENCE (SIZE (1..maxnoofRL-2)) OF
  ProtocolIE-Container {{Successful-RL-InformationResponse-RL-Add-FailFDD-ItemIE }}

Successful-RL-InformationResponse-RL-Add-FailFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Successful-RL-InformationResponse-RL-Add-FailFDDItem CRITICALITY ignore TYPE Successful-RL-
  InformationResponse-RL-Add-FailFDDItem PRESENCE mandatory },
  ...
}

Successful-RL-InformationResponse-RL-Add-FailFDDItem ::= SEQUENCE {
  rL-ID RL-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  diversityIndication DiversityIndication-RL-Add-FailFDD,
  sSDT-SupportIndicator SSdT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { Successful-RL-InformationResponse-RL-Add-FailFDDItem-ExtIEs } } OPTIONAL,
  ...
}

Successful-RL-InformationResponse-RL-Add-FailFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndication-RL-Add-FailFDD ::= ENUMERATED-CHOICE {
  combining Combining-RL-Add-FailFDD,
  non-combining Non-Combining-RL-Add-FailFDD,
  ...
}

Combining-RL-Add-FailFDD ::= ProtocolIE-Container {{ CombiningItemIE-RL-Add-FailFDD }}

CombiningItemIE-RL-Add-FailFDD NBAP-PROTOCOL-IES ::= {

```

```

_____ { ID id-CombiningItem-RL-Add-FailFDD CRITICALITY ignore TYPE CombiningItem-RL-Add-FailFDD PRESENCE mandatory },
_____
_____
}

CombiningItem-RL-Add-FailFDD ::= SEQUENCE {
    rL-ID _____ RL-ID _____
    iE-Extensions _____ ProtocolExtensionContainer { { CombiningItem-RL-Add-FailFDD-ExtIEs } } OPTIONAL,
    _____
}

CombiningItem-RL-Add-FailFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    _____
}

Non-Combining-RL-Add-FailFDD ::= ProtocolIE-Container { { Non-CombiningItemIE-RL-Add-FailFDD } }

Non-CombiningItemIE-RL-Add-FailFDD NBAP-PROTOCOL-IES ::= {
    _____ { ID id-Non-CombiningItem-RL-Add-FailFDD CRITICALITY ignore TYPE Non-CombiningItem-RL-Add-FailFDD PRESENCE mandatory },
    _____
}

Non-CombiningItem-RL-Add-FailFDD ::= SEQUENCE {
    dCH-InformationResponseList _____ DCH-InformationResponseList-RL-Add-FailFDD _____
    iE-Extensions _____ ProtocolExtensionContainer { { Non-CombiningItem-RL-Add-FailFDD-ExtIEs } } OPTIONAL,
    _____
}

Non-CombiningItem-RL-Add-FailFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    _____
}

DCH-InformationResponseList-RL-Add-FailFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
_____ ProtocolIE-Container { { DCH-InformationResponse-RL-Add-FailFDDItemIE } }

DCH-InformationResponse-RL-Add-FailFDDItemIE NBAP-PROTOCOL-IES ::= {
    _____ { ID id-DCH-InformationResponse-RL-Add-FailFDDItem CRITICALITY ignore TYPE DCH-InformationResponse-RL-Add-FailFDDItem PRESENCE mandatory _____
    _____ }
    _____
}

DCH-InformationResponse-RL-Add-FailFDDItem ::= SEQUENCE {
    _____ dCH-ID _____ DCH-ID,
    _____ bindingID _____ BindingID,
    _____ transportLayerAddress _____ TransportLayerAddress,
    _____ iE-Extensions _____ ProtocolExtensionContainer { { DCH-InformationResponseList-RL-Add-FailFDD-ExtIEs } } OPTIONAL,
    _____
}

DCH-InformationResponseList-RL-Add-FailFDD-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-Communication-Context-ID    CRITICALITY ignore    TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
    { ID id-Unsuccessful-RL-InformationResponse CRITICALITY ignore TYPE Unsuccessful-RL-InformationResponse PRESENCE mandatory } |
    { ID id-CriticalityDiagnostic            CRITICALITY ignore    TYPE CriticalityDiagnostic      PRESENCE optional   } |
    ...
}

RadioLinkAdditionFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-RL-InformationResponse ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer {{ Unsuccessful-RL-InformationResponse-ExtIEs } } OPTIONAL,
    ...
}

Unsuccessful-RL-InformationResponse-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 rejectignore    TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY rejectignore    TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY rejectignore    TYPE DL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |

```

```

{ ID id-DCH-ModifyList-RL-ReconfPrepFDD      CRITICALITY rejectignore      TYPE DCH-ModifyList-RL-ReconfPrepFDD      PRESENCE optional } |
{ ID id-DCH-AddList-RL-ReconfPrepFDD         CRITICALITY rejectignore      TYPE DCH-AddList-RL-ReconfPrepFDD        PRESENCE optional } |
{ ID id-DCH-DeleteList-RL-ReconfPrepFDD     CRITICALITY rejectignore      TYPE DCH-DeleteList-RL-ReconfPrepFDD     PRESENCE optional } |
{ ID id-DSCH-ModifyItem-RL-ReconfPrepFDD   CRITICALITY rejectignore      TYPE DSCH-ModifyItem-RL-ReconfPrepFDD   PRESENCE optional } |
{ ID id-DSCH-AddItem-RL-ReconfPrepFDD     CRITICALITY rejectignore      TYPE DSCH-AddItem-RL-ReconfPrepFDD     PRESENCE optional } |
{ ID id-DSCH-DeleteItem-RL-ReconfPrepFDD   CRITICALITY rejectignore      TYPE DSCH-DeleteItem-RL-ReconfPrepFDD   PRESENCE optional } |
{ ID id-RadioLinkInformationList-RL-ReconfPrepFDD CRITICALITY rejectignore      TYPE RadioLinkInformationList-RL-ReconfPrepFDD PRESENCE optional
},
...
}

```

```

RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
  ul-ScramblingCode          UL-ScramblingCode          OPTIONAL,
  minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
  maxNrOfULmaxNumberOfULDPDCHs      MaxNumber#OFULDPDCHs      OPTIONAL,
  -- This IE is present only if minUL-ChannelisationCodeLength equals to 4
  ul-PunctureLimit          UL-PunctureLimit          OPTIONAL,
  tFCS                      TFCS                      OPTIONAL,
  ul-DPCCH-SlotFormat       UL-DPCCH-SlotFormat       OPTIONAL,
  sSDT-CellIdentityLength   SSdT-CellIdentityLength   OPTIONAL,
  s-FieldLength             S-FieldLength             OPTIONAL,
  -- The following information element is needed if there is a need to add Ies with specific criticality.
  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,
  dTX-InsertionPoint         DTX-InsertionPoint         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..maxnoofdCHs)) OF
ProtocolIE-Container {{DCH-Modify-RL-ReconfPrepFDDItemIE}}

```

```

DCH-Modify-RL-ReconfPrepFDDItemIE-NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Modify-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE DCH-Modify-RL-ReconfPrepFDDItem PRESENCE optional },
  ...
}

```

```

DCH-Modify-RL-ReconfPrepFDDItem ::=
  SEQUENCE {
    dCH-ID DCH-ID,
    ul-TransportFormatSet TransportFormatSet OPTIONAL,
    dl-TransportFormatSet TransportFormatSet OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    ul-FP-Mode UL-FP-Mode OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { DCH-ModifyList-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
  }

```

```

DCH-ModifyList-RL-ReconfPrepFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Add-RL-ReconfPrepFDDItemIE}}

```

```

DCH-Add-RL-ReconfPrepFDDItemIE-NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Add-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE DCH-Add-RL-ReconfPrepFDDItem PRESENCE optional },
  ...
}

```

```

DCH-Add-RL-ReconfPrepFDDItem ::=
  SEQUENCE {
    dCH-ID DCH-ID,
    dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
    rLC-Mode RLC-Mode,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode UL-FP-Mode,
    toAWS ToAWS,
    toAWE ToAWE,
    iE-Extensions ProtocolExtensionContainer { { DCH-AddList-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
  }

```

```

DCH-AddList-RL-ReconfPrepFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
  ProtocolIE-Container {{DCH-Delete-RL-ReconfPrepFDDItemIE}}

```

```

DCH-Delete-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-Delete-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE DCH-Delete-RL-ReconfPrepFDDItem PRESENCE optional },
  ...
}

```

```

DCH-Delete-RL-ReconfPrepFDDItem ::= SEQUENCE {
  dCH-ID DCH-ID
}

```

```

DSCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dl-TransportFormatSet TransportFormatSet OPTIONAL,
  rL-ID RL-ID OPTIONAL,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
  toAWS ToAWS OPTIONAL,
  toAWE ToAWE OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DCH-DeleteList-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DCH-DeleteList-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DSCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dl-TransportFormatSet TransportFormatSet,
  rL-ID RL-ID,
  frameHandlingPriority FrameHandlingPriority,
  toAWS ToAWS,
  toAWE ToAWE,
  iE-Extensions ProtocolExtensionContainer { { DSCH-Add-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DSCH-Add-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { { DSCH-Delete-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DSCH-Delete-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

RadioLinkInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{RadioLinkInformation-RL-ReconfPrepFDDItemIE}}

```

```

RadioLinkInformation-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RadioLinkInformation-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE RadioLinkInformation-RL-ReconfPrepFDDItem PRESENCE
  mandatory},

```

```

}
...
RadioLinkInformation-RL-ReconfPrepFDDItem ::= SEQUENCE {
    rL-ID                RL-ID,
    dl-CodeInformationList-RL-ReconfPrepFDD            DL-CodeInformationList-RL-ReconfPrepFDD    OPTIONAL,
    maxDL-Power          DL-Power          OPTIONAL,
    minDL-Power          DL-Power          OPTIONAL,
    sSDT-Indication      SSDT-Indication    OPTIONAL,
    sSDT-CellIdentity    SSDT-CellIdentity  OPTIONAL,
-- The IE may be present if the SSDT Indication is set to SSDT Active in the UE
iE-Extensions         ProtocolExtensionContainer { { RadioLinkInformation-RL-ReconfPrepFDDItem-ExtIEs } } OPTIONAL,
    ...
}

RadioLinkInformation-RL-ReconfPrepFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofDLCodes)) OF
ProtocolIE-Container { {DL-CodeInformation-RL-ReconfPrepFDDItemIE } }

DL-CodeInformation-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DL-CodeInformation-RL-ReconfPrepFDDItem CRITICALITY ignore TYPE DL-CodeInformation-RL-ReconfPrepFDDItem PRESENCE optional },
    ...
}

DL-CodeInformation-RL-ReconfPrepFDDItem ::= SEQUENCE {
    scramblingCode          ScramblingCode OPTIONAL,
    fdd-DL-ChannelisationCodeNumber      FDD-DL-ChannelisationCodeNumber OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { { DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****

RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationPrepareTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID    CRITICALITY rejectignore TYPE NodeB-CommunicationContextID PRESENCE mandatory } |

```

3G TS 25.433 version 3.0.0 (1999-12)

259

```

    { ID id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE UL-CCTrCH-InformationList-RL-ReconfPrepTDD
      PRESENCE optional
    } |
    { ID id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE DL-CCTrCH-InformationList-RL-ReconfPrepTDD
      PRESENCE optional
    } |
    { ID id-DCH-ModifyList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE DCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE DCH-AddList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD
      PRESENCE optional
    } |
    { ID id-DSCH-information-AddList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE DSCH-Information-AddList-RL-ReconfPrepTDD
      PRESENCE optional
    } |
    { ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD
      PRESENCE optional
    } |
    { ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD
      PRESENCE optional
    } |
    { ID id-USCH-information-AddList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE USCH-Information-AddList-RL-ReconfPrepTDD PRESENCE
      optional
    } |
    { ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD
      PRESENCE optional
    } |
    { ID id-RadioLinkInformation-RL-ReconfPrepTDD CRITICALITY rejectignore TYPE RadioLinkInformation-RL-ReconfPrepTDD PRESENCE
      optional
    },
    ...
  }

RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

~~UL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF UL-CCTrCH-Information-RL-ReconfPrepTDDItem ~~ProtocolIE-Container~~ ~~{{UL-CCTrCH-Information-RL-ReconfPrepTDDItemIE}}~~~~

~~UL-CCTrCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {~~
 ~~{ ID id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem CRITICALITY ~~ignore~~ TYPE ~~UL-CCTrCH-Information-RL-ReconfPrepTDDItem~~ PRESENCE~~
 ~~optional},~~
 ~~...~~
~~}~~

UL-CCTrCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
 cCtRch-ID CCTrCH-ID,
 tFCS TFCS OPTIONAL,
 tFCI-Coding TFCI-Coding OPTIONAL,
~~puncturing-Limit~~ Puncturing-Limit OPTIONAL,


```

    ul-DPCH-InformationList-RL-ReconfPrepTDD          UL-DPCH-InformationList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer {{ UL-CCTrCH-InformationItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
    ProtocolIE-Container {{UL-DPCH-Information-RL-ReconfPrepTDDItemIE }}

UL-DPCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationList-RL-ReconfPrepTDDItem CRITICALITY rejectignore TYPE UL-DPCH-InformationList-RL-ReconfPrepTDDItem
    PRESENCE mandatory
    },
    ...
}

UL-DPCH-InformationList-RL-ReconfPrepTDDItem ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF UL-DPCH-Information-RL-ReconfPrepTDDItem

UL-DPCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tDD-ChannelisationCode          TDD-ChannelisationCode OPTIONAL,
    burstType          BurstType OPTIONAL,
    midambleShift          MidambleShift OPTIONAL,
    timeSlot          TimeSlot OPTIONAL,
    tdd-PhysicalChannelOffset          TDD-PhysicalChannelOffset OPTIONAL,
    repetitionPeriod          RepetitionPeriod OPTIONAL,
    repetitionLength          RepetitionLength OPTIONAL,
    tFCI-Presence          TFCI-Presence OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer {{ UL-DPCH-InformationItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF DL-CCTrCH-Information-RL-ReconfPrepTDDItem ProtocolIE-Container {{DL-CCTrCH-Information-RL-ReconfPrepTDDItemIE }}

DL-CCTrCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-Information-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DL-CCTrCH-Information-RL-ReconfPrepTDDItem PRESENCE mandatory
    },
    ...
}
}

```

```

DL-CCTrCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
    cCCTrCH-ID          CCTrCH-ID,
    tFCS          TFCS OPTIONAL,

```

```

tFCI-Coding          TFCI-Coding OPTIONAL,
punctureing-Limit          Punctureing-Limit OPTIONAL,
dl-DPCH-InformationList-RL-ReconfPrepTDD          DL-DPCH-InformationList-RL-ReconfPrepTDD OPTIONAL,
iE-Extensions          ProtocolExtensionContainer {{ DL-CCTrCH-InformationItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
...
}

DL-CCTrCH-InformationItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF
ProtocolIE-Container {{DL-DPCH-Information-RL-ReconfPrepTDDItemIE }}

DL-DPCH-Information-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationList-RL-ReconfPrepTDDItem          CRITICALITY          rejectignore          TYPE DL-DPCH-InformationList-RL-ReconfPrepTDDItem
PRESENCE          mandatory
},
...
}

DL-DPCH-InformationList-RL-ReconfPrepTDDItem ::= SEQUENCE (SIZE (1..maxnoofDPCHs)) OF DL-DPCH-Information-RL-ReconfPrepTDDItem

DL-DPCH-Information-RL-ReconfPrepTDDItem ::= SEQUENCE {
dpch-ID          DPCH-ID,
tDD-ChannelisationCode          TDD-ChannelisationCode          OPTIONAL,
burstType          BurstType          OPTIONAL,
midambleShift          MidambleShift          OPTIONAL,
timeSlot          TimeSlot          OPTIONAL,
tdd-PhysicalChannelOffset          TDD-PhysicalChannelOffset          OPTIONAL,
repetitionPeriod          RepetitionPeriod          OPTIONAL,
rpetitionLength          RepetitionLength          OPTIONAL,
tFCI-Presence          TFCI-Presence          OPTIONAL,
iE-Extensions          ProtocolExtensionContainer {{ DL-DPCH-InformationItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
...
}

DL-DPCH-InformationItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF DCH-Modify-RL-ReconfPrepTDDItem
ProtocolIE-Container {{DCH-Modify-RL-ReconfPrepTDDItemIE }}

DCH-Modify-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DCH-Modify-RL-ReconfPrepTDDItem          CRITICALITY ignore          TYPE DCH-Modify-RL-ReconfPrepTDDItem          PRESENCE optional },
...
}

DCH-Modify-RL-ReconfPrepTDDItem ::= SEQUENCE {
dCH-ID          DCH-ID,

```

```

ul-CCTrCH-ID          CCTrCH-ID OPTIONAL,
dl-CCTrCH-ID          CCTrCH-ID OPTIONAL,
ul-TransportFormatSet TransportFormatSet OPTIONAL,
dl-TransportFormatSet TransportFormatSet OPTIONAL,
frameHandlingPriority FrameHandlingPriority OPTIONAL,
ul-FP-Mode            UL-FP-Mode          OPTIONAL,
toAWS                 ToAWS              OPTIONAL,
toAWE                 ToAWE              OPTIONAL,
iE-Extensions        ProtocolExtensionContainer {{ DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
...
}

```

```

DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF DCH-Add-RL-ReconfPrepTDDItem
ProtocolIE-Container {{DCH-Add-RL-ReconfPrepTDDItemIE}}

```

```

DCH-Add-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DCH-Add-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DCH-Add-RL-ReconfPrepTDDItem PRESENCE optional },
...
}

```

```

DCH-Add-RL-ReconfPrepTDDItem ::= SEQUENCE {
dCH-ID DCH-ID,
dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
rLC-Mode RLC-Mode,
ul-CCTrCH-ID CCTrCH-ID,
dl-CCTrCH-ID CCTrCH-ID,
dCH-CombinationIndication DCH-CombinationIndication OPTIONAL,
ul-TransportFormatSet TransportFormatSet,
dl-TransportFormatS TransportFormatSet,
frameHandlingPriority FrameHandlingPriority,
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode UL-FP-Mode,
toAWS ToAWS,
toAWE ToAWE,
iE-Extensions ProtocolExtensionContainer {{ DCH-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
...
}

```

```

DCH-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF DCH-Delete-RL-ReconfPrepTDDItem
ProtocolIE-Container {{DCH-Delete-RL-ReconfPrepTDDItemIE}}

```

```

DCH-Delete-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id-DCH-Delete-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DCH-Delete-RL-ReconfPrepTDDItem PRESENCE optional },
...
}

```

```

DCH-Delete-RL-ReconfPrepTDDItem ::= 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..maxnoofDSCHs)) OF DSCH-Information-Modify-RL-ReconfPrepTDDItemProtocolIE-Container {{DSCH-Information-Modify-RL-ReconfPrepTDDItemIE}}

```

```

DSCH-Information-Modify-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Information-Modify-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DSCH-Information-Modify-RL-ReconfPrepTDDItem PRESENCE
  optional
},
...
}

```

```

DSCH-Information-Modify-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  transportFormatSet TransportFormatSet OPTIONAL,
  cCtRCH-ID       CCTrCH-ID OPTIONAL,
  transportFormatSet TransportFormatSet OPTIONAL,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
  toAWSE          ToAWSE OPTIONAL,
  toAWES          ToAWES  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..maxnoofDSCHs)) OF DSCH-Information-Add-RL-ReconfPrepTDDItem
ProtocolIE-Container {{DSCH-Information-Add-RL-ReconfPrepTDDItemIE}}

```

```

DSCH-Information-Add-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Information-Add-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DCH-Add-RL-ReconfPrepTDDItem PRESENCE mandatory
},
...
}

```

```

DSCH-Information-Add-RL-ReconfPrepTDDItem ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  cCtRCH-ID       CCTrCH-ID,
  transportFormatSet TransportFormatSet,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
}

```

```

    toAWSE          ToAWSE,
    toAWES          ToAWES,
    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..maxnoofDSCHs)) OF DSCH-Information-Delete-RL-ReconfPrepTDDItemProtocolIE-Container {{DSCH-Delete-RL-ReconfPrepTDDItemIE }}

DSCH-Information-Delete-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-Information-Delete-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE DSCH-Information-Delete-RL-ReconfPrepTDDItem PRESENCE optional }
    ...
}

DSCH-Information-Delete-RL-ReconfPrepTDDItem ::= 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..maxnoofUSCHs)) OF USCH-Information-Modify-RL-ReconfPrepTDDItemProtocolIE-Container {{USCH-Information-Modify-RL-ReconfPrepTDDItemIE }}

USCH-Information-Modify-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-Information-Modify-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE USCH-Information-Modify-RL-ReconfPrepTDDItem PRESENCE optional }
    ...
}

USCH-Information-Modify-RL-ReconfPrepTDDItem ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    transportFormatSet TransportFormatSet OPTIONAL,
    cTrCH-ID         CTrCH-ID OPTIONAL,
    iE-Extensions  ProtocolExtensionContainer {{ USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs }} OPTIONAL,
    ...
}

USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF USCH-Information-Add-RL-ReconfPrepTDDItem
ProtocolIE-Container {{USCH-Information-Add-RL-ReconfPrepTDDItemIE}}

USCH-Information-Add-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Information-Add-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE USCH-Add-RL-ReconfPrepTDDItem-PRESENCE optional
},
  ...
}

USCH-Information-Add-RL-ReconfPrepTDDItem ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  cTrCH-ID         CTrCH-ID,
  transportFormatSet TransportFormatSet,
  iE-Extensions   ProtocolExtensionContainer {{ USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs }} OPTIONAL,
  ...
}

USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF USCH-Information-Delete-RL-ReconfPrepTDDItem
ProtocolIE-Container {{USCH-Delete-RL-ReconfPrepTDDItemIE}}

USCH-Information-Delete-RL-ReconfPrepTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Information-Delete-RL-ReconfPrepTDDItem CRITICALITY ignore TYPE USCH-Information-Delete-RL-ReconfPrepTDDItem
  PRESENCE optional
},
  ...
}

USCH-Information-Delete-RL-ReconfPrepTDDItem ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  iE-Extensions   ProtocolExtensionContainer {{ USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs }} OPTIONAL,
  ...
}

USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkInformation-RL-ReconfPrepTDD ::= SEQUENCE {
  rl-ID RL-ID,
  maxDL-Power      DL-Power          OPTIONAL,
  minDL-Power      DL-Power          OPTIONAL,
  iE-Extensions   ProtocolExtensionContainer {{ RLInformation-RL-ReconfPrepTDD-ExtIEs }} OPTIONAL,
  ...
}

RLInformation-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
} }
17 { ID id-CriticalityDiagnostic              CRITICALITY ignore      TYPE CriticalityDiagnostic              PRESENCE optional },
    ...
}

RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationResponseList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{RL-InformationResponse-RL-ReconfReadyItemIE }}

RL-InformationResponse-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfReadyItem      CRITICALITY ignore      TYPE RL-InformationResponseList-RL-
ReconfReadyItem      PRESENCE      mandatory
    },
    ...
}

RL-InformationResponseList-RL-ReconfReadyItem ::= SEQUENCE {
    rL-ID          RL-ID,
    dCHsToBeAdded  DCH-AddList-RL-ReconfReady  OPTIONAL,
    dCHsToBeModified  DCH-ModifyList-RL-ReconfReady  OPTIONAL,
    dSCH-SetupItem   DSCH-SetupList-RL-ReconfReady  OPTIONAL,
    dSCH-ModifyItem  DSCH-ModifyList-RL-ReconfReady  OPTIONAL,
    uSCH-SetupItem   USCH-SetupList-RL-ReconfReady  OPTIONAL,
    uSCH-ModifyItem  USCH-ModifyList-RL-ReconfReady  OPTIONAL,
    iE-Extensions   ProtocolExtensionContainer { { RL-InformationResponseList-RL-ReconfReadyItem-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationResponseList-RL-ReconfReadyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

```

```

}
DCH-AddList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container {{DCH-AddList-RL-ReconfReadyItemIE }}
DCH-AddList-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-AddList-RL-ReconfReadyItem      CRITICALITY ignore   TYPE DCH-AddList-RL-ReconfReadyItem      PRESENCE mandatory },
  ...
}
DCH-AddList-RL-ReconfReadyItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
SEQUENCE {
  dCH-ID                DCH-ID,
  bindingID              BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions         ProtocolExtensionContainer { { DCH-AddList-RL-ReconfReadyItem-ExtIEs } } OPTIONAL,
  ...
}
DCH-AddList-RL-ReconfReadyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container {{DCH-ModifyList-RL-ReconfReadyItemIE }}
DCH-ModifyList-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-ModifyList-RL-ReconfReadyItem    CRITICALITY ignore   TYPE DCH-ModifyList-RL-ReconfReadyItem    PRESENCE mandatory },
  ...
}
DCH-ModifyList-RL-ReconfReadyItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
SEQUENCE {
  dCH-ID                DCH-ID,
  bindingID              BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions         ProtocolExtensionContainer { { DCH-ModifyList-RL-ReconfReadyItem-ExtIEs } } OPTIONAL,
  ...
}
DCH-ModifyList-RL-ReconfReadyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DSCH-SetupList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
ProtocolIE-Container {{DSCH-SetupList-RL-ReconfReadyItemIE }}
DSCH-SetupList-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-SetupList-RL-ReconfReadyItem    CRITICALITY ignore   TYPE DSCH-SetupList-RL-ReconfReadyItem    PRESENCE mandatory },
  ...
}
DSCH-SetupList-RL-ReconfReadyItem ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF

```



```

SEQUENCE {
  dSCH-ID          DSCH-ID,
  bindingID        BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions    ProtocolExtensionContainer { { DSCH-SetupList-RL-ReconfReadyItem-ExtIEs } } OPTIONAL,
  ...
}

DSCH-SetupList-RL-ReconfReadyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
  ProtocolIE-Container {{DSCH-ModifyList-RL-ReconfReadyItemIE }}

DSCH-ModifyList-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-ModifyList-RL-ReconfReadyItem          CRITICALITY ignore TYPE DSCH-ModifyList-RL-ReconfReadyItem          PRESENCE mandatory },
  ...
}

DSCH-ModifyList-RL-ReconfReadyItem ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
  SEQUENCE {
    dSCH-ID          DSCH-ID,
    bindingID        BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions    ProtocolExtensionContainer { { DSCH-ModifyList-RL-ReconfReadyItem-ExtIEs } } OPTIONAL,
    ...
  }

DSCH-ModifyList-RL-ReconfReadyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

USCH-SetupList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  ProtocolIE-Container {{USCH-SetupList-RL-ReconfReadyItemIE }}

USCH-SetupList-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-SetupList-RL-ReconfReadyItem          CRITICALITY ignore TYPE USCH-SetupList-RL-ReconfReadyItem          PRESENCE mandatory },
  ...
}

USCH-SetupList-RL-ReconfReadyItem ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  SEQUENCE {
    uSCH-ID          USCH-ID,
    bindingID        BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions    ProtocolExtensionContainer { { USCH-SetupList-RL-ReconfReadyItem-ExtIEs } } OPTIONAL,
    ...
  }

USCH-SetupList-RL-ReconfReadyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```
USCH-ModifyList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  ProtocolIE-Container {{USCH-ModifyList-RL-ReconfReadyItemIE }}
```

```
USCH-ModifyList-RL-ReconfReadyItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-ModifyList-RL-ReconfReadyItem      CRITICALITY ignore  TYPE USCH-ModifyList-RL-ReconfReadyItem      PRESENCE mandatory  },
  ...
}
```

```
USCH-ModifyList-RL-ReconfReadyItem ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
  SEQUENCE {
    uSCH-ID          USCH-ID,
    bindingID        BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions    ProtocolExtensionContainer { { USCH-ModifyList-RL-ReconfReadyItem-ExtIEs } } OPTIONAL,
    ...
  }
}
```

```
USCH-ModifyList-RL-ReconfReadyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
-- *****
--
-- RADIO LINK RECONFIGURATION FAILURE
--
-- *****
```

```
RadioLinkReconfigurationFailure ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{RadioLinkReconfigurationFailure-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationFailure-Extensions}}          OPTIONAL,
  ...
}
```

```
RadioLinkReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID      CRITICALITY ignore      TYPE CRNC-CommunicationContextID      PRESENCE mandatory  } |
  { ID id-Cause                            CRITICALITY ignore      TYPE Cause                            PRESENCE mandatory  } |
  { ID id-RL-ReconfigurationFailureList-RL-ReconfFail CRITICALITY ignore      TYPE RL-ReconfigurationFailureList-RL-ReconfFail PRESENCE optional } |
  { ID id-CriticalityDiagnostic            CRITICALITY ignore      TYPE CriticalityDiagnostic            PRESENCE optional
  },
  ...
}
```

```
RadioLinkReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
RL-ReconfigurationFailureList-RL-ReconfFail ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{RL-ReconfigurationFailure-RL-ReconfFailItemIE}}
```

```
RL-ReconfigurationFailure-RL-ReconfFailItemIE NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-RL-ReconfigurationFailure-RL-ReconfFailItem CRITICALITY ignore TYPE RL-ReconfigurationFailure-RL-ReconfFailItem PRESENCE optional
},
...
}
```

```
RL-ReconfigurationFailure-RL-ReconfFailItem ::= SEQUENCE {
    rL-ID RL-ID,
    cause Cause,
    iE-Extensions ProtocolExtensionContainer { { RL-ReconfigurationFailure-RL-ReconfFailItem-ExtIEs } } OPTIONAL,
    ...
}
```

```
RL-ReconfigurationFailure-RL-ReconfFailItem-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 },
    ...
}
```

```
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 rejectignore      TYPE NodeB-CommunicationContextID  PRESENCE mandatory } |
    { ID id-UL-DPCH-InformationItem-RL-ReconfReqFDD CRITICALITY rejectignore      TYPE UL-DPCH-InformationItem-RL-ReconfReqFDD PRESENCE optional } |
    { ID id-DL-DPCH-InformationItem-RL-ReconfReqFDD CRITICALITY rejectignore      TYPE DL-DPCH-InformationItem-RL-ReconfReqFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfReqFDD          CRITICALITY rejectignore      TYPE DCH-ModifyList-RL-ReconfReqFDD  PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfReqFDD             CRITICALITY rejectignore      TYPE DCH-AddList-RL-ReconfReqFDD     PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfReqFDD          CRITICALITY rejectignore      TYPE DCH-DeleteList-RL-ReconfReqFDD  PRESENCE optional } |
    { ID id-DSCH-ModifyItem-RL-ReconfReqFDD         CRITICALITY rejectignore      TYPE DSCH-ModifyItem-RL-ReconfReqFDD PRESENCE optional } |
    { ID id-DSCH-AddItem-RL-ReconfReqFDD            CRITICALITY rejectignore      TYPE DSCH-AddItem-RL-ReconfReqFDD    PRESENCE optional } |
    { ID id-DSCH-DeleteItem-RL-ReconfReqFDD         CRITICALITY rejectignore      TYPE DSCH-DeleteItem-RL-ReconfReqFDD PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfReqFDD      CRITICALITY rejectignore      TYPE RL-InformationList-RL-ReconfReqFDD PRESENCE optional },
    ...
}

RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationItem-RL-ReconfReqFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfReqFDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-Information-RL-ReconfReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationItem-RL-ReconfReqFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL,
    tFCI-SignallingMode TFCI-SignallingMode OPTIONAL,

```

```

    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfReqFDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-Information-RL-ReconfReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfReqFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-ModifyList-RL-ReconfReqFDDItemIE }}

DCH-ModifyList-RL-ReconfReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-ModifyList-RL-ReconfReqFDDItem CRITICALITY rejectignore          TYPE DCH-ModifyList-RL-ReconfReqFDDItem PRESENCE optional },
    ...
}

DCH-ModifyList-RL-ReconfReqFDDItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    SEQUENCE {
        dCH-ID                DCH-ID,
        ul-TransportFormatSet  TransportFormatSet OPTIONAL,
        dl-TransportFormatSet  TransportFormatSet OPTIONAL,
        frameHandlingPriority  FrameHandlingPriority OPTIONAL,
        ul-FP-Mode             UL-FP-Mode OPTIONAL,
        toAWS                  ToAWS OPTIONAL,
        toAWE                  ToAWE OPTIONAL,
        iE-Extensions          ProtocolExtensionContainer { { DCH-ModifyList-RL-ReconfReqFDDItem-ExtIEs } } OPTIONAL,
        ...
    }

DCH-ModifyList-RL-ReconfReqFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfReqFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container {{DCH-AddList-RL-ReconfReqFDDItemIE }}

DCH-AddList-RL-ReconfReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddList-RL-ReconfReqFDDItem CRITICALITY rejectignore          TYPE DCH-AddList-RL-ReconfReqFDDItem PRESENCE optional },
    ...
}

DCH-AddList-RL-ReconfReqFDDItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    SEQUENCE {
        dCH-ID                DCH-ID,
        ul-TransportFormatSet  TransportFormatSet,
        dl-TransportFormatSet  TransportFormatSet,
        frameHandlingPriority  FrameHandlingPriority,
        payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
        ul-FP-Mode             UL-FP-Mode,
        toAWS                  ToAWS,
        toAWE                  ToAWE,
        iE-Extensions          ProtocolExtensionContainer { { DCH-AddList-RL-ReconfReqFDDItem-ExtIEs } } OPTIONAL,
        ...
    }

```

```

}
}
DCH-AddList-RL-ReconfReqFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-DeleteList-RL-ReconfReqFDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    ProtocolIE-Container { {DCH-DeleteList-RL-ReconfReqFDDItemIE } }
DCH-DeleteList-RL-ReconfReqFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-DeleteList-RL-ReconfReqFDDItem CRITICALITY rejectignore TYPE DCH-DeleteList-RL-ReconfReqFDDItem PRESENCE optional },
    ...
}
DCH-DeleteList-RL-ReconfReqFDDItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
    SEQUENCE {
        dCH-ID DCH-ID,
        iE-Extensions ProtocolExtensionContainer { { DCH-DeleteList-RL-ReconfReqFDDItem-ExtIEs } } OPTIONAL,
        ...
    }
DCH-DeleteList-RL-ReconfReqFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCH-ModifyItem-RL-ReconfReqFDD ::= SEQUENCE {
    dl-TransportFormatSet TransportFormatSet OPTIONAL,
    rL-ID RL-ID OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { DSCH-Modify-RL-ReconfReqFDD-ExtIEs } } OPTIONAL,
    ...
}
DSCH-Modify-RL-ReconfReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCH-AddItem-RL-ReconfReqFDD ::= SEQUENCE {
    dl-TransportFormatSet TransportFormatSet,
    rL-ID RL-ID,
    frameHandlingPriority FrameHandlingPriority,
    toAWS ToAWS,
    toAWE ToAWE,
    iE-Extensions ProtocolExtensionContainer { { DSCH-Add-RL-ReconfReqFDD-ExtIEs } } OPTIONAL,
    ...
}
DSCH-Add-RL-ReconfReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DSCH-DeleteItem-RL-ReconfReqFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    iE-Extensions ProtocolExtensionContainer { { DSCH-Delete-RL-ReconfReqFDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-Delete-RL-ReconfReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{RL-Information-RL-ReconfPrepFDDItemIE }}

RL-Information-RL-ReconfPrepFDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-ReconfPrepFDDItem CRITICALITY rejectignore TYPE RL-Information-RL-ReconfPrepFDDItem PRESENCE optional },
    ...
}

RL-Information-RL-ReconfPrepFDDItem ::= SEQUENCE {
    rL-ID          RL-ID,
    maxDL-Power   DL-Power          OPTIONAL,
    minDL-Power   DL-Power          OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-Information-RL-ReconfPrepFDDItem-ExtIEs } } OPTIONAL,
    ...
}

RL-Information-RL-ReconfPrepFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationRequestTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}
    ...
}

RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID CRITICALITY rejectignore TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationList-RL-ReconfReqTDD CRITICALITY notifyignore TYPE UL-CCTrCH-InformationList-RL-ReconfReqTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-ReconfReqTDD CRITICALITY notifyignore TYPE DL-CCTrCH-InformationList-RL-ReconfReqTDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE DCH-ModifyList-RL-ReconfReqTDD PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE DCH-AddList-RL-ReconfReqTDD PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE DCH-DeleteList-RL-ReconfReqTDD PRESENCE optional } |

```

```

{ ID id-DSCH-ModifyList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE DSCH-ModifyList-RL-ReconfReqTDD PRESENCE optional } |
{ ID id-DSCH-AddList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE DSCH-AddList-RL-ReconfReqTDD PRESENCE optional } |
{ ID id-DSCH-DeleteList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE DSCH-DeleteList-RL-ReconfReqTDD PRESENCE optional } |
{ ID id-USCH-ModifyList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE USCH-ModifyList-RL-ReconfReqTDD PRESENCE optional } |
{ ID id-USCH-AddList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE USCH-AddList-RL-ReconfReqTDD PRESENCE optional } |
{ ID id-USCH-DeleteList-RL-ReconfReqTDD CRITICALITY rejectignore TYPE USCH-DeleteList-RL-ReconfReqTDD PRESENCE optional } |
{ ID id-RadioLinkInformation-RL-ReconfReqTDD CRITICALITY reject TYPE RadioLinkInformation-RL-ReconfReqTDD PRESENCE optional },

```

```

...
}

```

```
RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```

...
}

```

```
UL-CCTrCH-InformationList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF
ProtocolIE-Container {{UL-CCTrCH-Information-RL-ReconfReqTDDItemIE}}
```

```
UL-CCTrCH-Information-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
```

```

{ ID id-UL-CCTrCH-Information-RL-ReconfReqTDDItem CRITICALITY notifyignore TYPE UL-CCTrCH-Information-RL-ReconfReqTDDItem
PRESENCE mandatory
},

```

```

...
}

```

```
UL-CCTrCH-Information-RL-ReconfReqTDDItem ::= SEQUENCE {
```

```

cCTrCH-ID CCTrCH-ID,
tFCS TFCS,
punctureingLimit PunctureingLimit,
ie-Extensions ProtocolExtensionContainer {{ UL-CCTrCH-InformationItem-RL-ReconfReqTDD-ExtIEs }} OPTIONAL,

```

```

...
}

```

```
UL-CCTrCH-InformationItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```

...
}

```

```
DL-CCTrCH-InformationList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofCCTrCHs)) OF
ProtocolIE-Container {{DL-CCTrCH-Information-RL-ReconfReqTDDItemIE}}
```

```
DL-CCTrCH-Information-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
```

```

{ ID id-DL-CCTrCH-Information-RL-ReconfReqTDDItem CRITICALITY ignore TYPE DL-CCTrCH-Information-RL-ReconfReqTDDItem
PRESENCE mandatory
},

```

```

...
}

```

```
DL-CCTrCH-Information-RL-ReconfReqTDDItem ::= SEQUENCE {
```

```

cCTrCH-ID CCTrCH-ID,
tFCS TFCS,
punctureingLimit PunctureingLimit,

```



```

    iE-Extensions          ProtocolExtensionContainer {{ DL-CCTrCH-InformationItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DL-CCTrCH-InformationItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DCH-ModifyList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF DCH-Modify-RL-ReconfReqTDDItem
ProtocolIE-Container {{DCH-Modify-RL-ReconfReqTDDItemIE}}

```

```

DCH-Modify-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Modify-RL-ReconfReqTDDItem CRITICALITY ignore TYPE DCH-Modify-RL-ReconfReqTDDItem PRESENCE optional },
    ...
}


```

```

DCH-Modify-RL-ReconfReqTDDItem ::= SEQUENCE {
    dCH-ID          DCH-ID,
    ul-CCTrCH-ID    CCTrCH-ID,
    dl-CCTrCH-ID    CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet OPTIONAL,
    dl-TransportFormatSet TransportFormatSet OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    ul-FP-Mode      UL-FP-Mode OPTIONAL,
    toAWS           ToAWS OPTIONAL,
    toAWE           ToAWE OPTIONAL,
    iE-Extensions  ProtocolExtensionContainer {{ DCH-ModifyItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DCH-ModifyItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DCH-AddList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF DCH-Add-RL-ReconfReqTDDItem
ProtocolIE-Container {{DCH-Add-RL-ReconfReqTDDItemIE}}

```

```

DCH-Add-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-Add-RL-ReconfReqTDDItem CRITICALITY ignore TYPE DCH-Add-RL-ReconfReqTDDItem PRESENCE optional },
    ...
}


```

```

DCH-Add-RL-ReconfReqTDDItem ::= SEQUENCE {
    dCH-ID          DCH-ID,
    rLC-Mode        RLC-Mode,
    ul-CCTrCH-ID    CCTrCH-ID,
    dl-CCTrCH-ID    CCTrCH-ID,
    dch-CombinationIndication DCH-CombinationIndication,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode      UL-FP-Mode,
}

```

```

toAWS           ToAWS,
toAWE           ToAWE,
iE-Extensions  ProtocolExtensionContainer {{ DCH-AddItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
...
}

DCH-AddItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-DeleteList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF DCH-Delete-RL-ReconfReqTDDItem
ProtocolIE-Container {{DCH-Delete-RL-ReconfReqTDDItemIE }}

DCH-Delete-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id DCH-Delete-RL-ReconfReqTDDItem CRITICALITY ignore TYPE DCH-Delete-RL-ReconfReqTDDItem PRESENCE optional },
...
}

DCH-Delete-RL-ReconfReqTDDItem ::= SEQUENCE {
dCH-ID           DCH-ID,
iE-Extensions  ProtocolExtensionContainer {{ DCH-DeleteItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
...
}

DCH-DeleteItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-ModifyList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF DSCH-Modify-RL-ReconfReqTDDItem
ProtocolIE-Container {{DSCH-Modify-RL-ReconfReqTDDItemIE }}

DSCH-Modify-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
{ ID id DSCH-Modify-RL-ReconfReqTDDItem CRITICALITY ignore TYPE DSCH-Modify-RL-ReconfReqTDDItem PRESENCE optional },
...
}

DSCH-Modify-RL-ReconfReqTDDItem ::= SEQUENCE {
dSCH-ID           DSCH-ID,
cTrCH-ID         CTrCH-ID,
transportFormatSet TransportFormatSet OPTIONAL,
frameHandlingPriority FrameHandlingPriority OPTIONAL,
toAWS            ToAWS            OPTIONAL,
toAWES           ToAWES           OPTIONAL,
iE-Extensions  ProtocolExtensionContainer {{ DSCH-ModifyItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
...
}

DSCH-ModifyItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-AddList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF DSCH-Add-RL-ReconfReqTDDItem
ProtocolIE-Container {{DSCH-Add-RL-ReconfReqTDDItemIE }}

```

```

DSCH-Add-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Add-RL-ReconfReqTDDItem CRITICALITY ignore TYPE DSCH-Add-RL-ReconfReqTDDItem PRESENCE optional },
  ...
}

```

```

DSCH-Add-RL-ReconfReqTDDItem ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  cCTrCH-ID        CCTrCH-ID,
  transportFormatSet TransportFormatSet,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
  toAWSE           ToAWSE,
  toAWES           ToAWES,
  iE-Extensions   ProtocolExtensionContainer {{ DSCH-AddItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DSCH-AddItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DSCH-DeleteList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF DSCH-Delete-RL-ReconfReqTDDItem
ProtocolIE-Container {{DSCH-Delete-RL-ReconfReqTDDItemIE}}

```

```

DSCH-Delete-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-Delete-RL-ReconfReqTDDItem CRITICALITY ignore TYPE DSCH-Delete-RL-ReconfReqTDDItem PRESENCE optional },
  ...
}

```

```

DSCH-Delete-RL-ReconfReqTDDItem ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  iE-Extensions   ProtocolExtensionContainer {{ DSCH-DeleteItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

DSCH-DeleteItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

USCH-ModifyList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF USCH-Modify-RL-ReconfReqTDDItem
ProtocolIE-Container {{USCH-Modify-RL-ReconfReqTDDItemIE}}

```

```

USCH-Modify-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-Modify-RL-ReconfReqTDDItem CRITICALITY ignore TYPE USCH-Modify-RL-ReconfReqTDDItem PRESENCE optional },
  ...
}

```

```

USCH-Modify-RL-ReconfReqTDDItem ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  cCTrCH-ID        CCTrCH-ID OPTIONAL,
  transportFormatSet TransportFormatSet OPTIONAL,
  iE-Extensions   ProtocolExtensionContainer {{ USCH-ModifyItem-RL-ReconfReqTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

}

USCH-ModifyItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-AddList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF USCH-Add-RL-ReconfReqTDDItem
ProtocolIE-Container {{USCH-Add-RL-ReconfReqTDDItemIE }}

USCH-Add-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
 { ID id-USCH-Add-RL-ReconfReqTDDItem CRITICALITY ignore TYPE USCH-Add-RL-ReconfReqTDDItem PRESENCE optional },
    ...
}

USCH-Add-RL-ReconfReqTDDItem ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    cCTrCH-ID        CCTrCH-ID,
    transportFormatSet TransportFormatSet,
    iE-Extensions    ProtocolExtensionContainer {{ USCH-AddItem-RL-ReconfReqTDD-ExtIEs }} OPTIONAL,
    ...
}

USCH-AddItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-DeleteList-RL-ReconfReqTDD ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF USCH-Delete-RL-ReconfReqTDDItem
ProtocolIE-Container {{USCH-Delete-RL-ReconfReqTDDItemIE }}

USCH-Delete-RL-ReconfReqTDDItemIE NBAP-PROTOCOL-IES ::= {
 { ID id-USCH-Delete-RL-ReconfReqTDDItem CRITICALITY ignore TYPE USCH-Delete-RL-ReconfReqTDDItem PRESENCE mandatory },
    ...
}

USCH-Delete-RL-ReconfReqTDDItem ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    iE-Extensions    ProtocolExtensionContainer {{ USCH-DeleteItem-RL-ReconfReqTDD-ExtIEs }} OPTIONAL,
    ...
}

USCH-DeleteItem-RL-ReconfReqTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkInformation-RL-ReconfReqTDD ::= SEQUENCE {
    rl-ID RL-ID,
    maxDL-Power          DL-Power          OPTIONAL,
    minDL-Power          DL-Power          OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer {{ RLInformation-RL-ReconfReqTDD-ExtIEs }} OPTIONAL,
    ...
}

RLInformation-RL-ReconfReqTDD-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-ReconfResp      CRITICALITY ignore  TYPE RL-InformationResponseList-RL-ReconfResp      PRESENCE optional }
}
{ ID id-CriticalityDiagnostic              CRITICALITY ignore  TYPE CriticalityDiagnostic              PRESENCE optional }
},
...
}

RL-InformationResponseList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
ProtocolIE-Container { {RL-InformationResponseItem-RL-ReconfRespIE} }

RL-InformationResponseItem-RL-ReconfRespIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfResp      CRITICALITY ignore  TYPE RL-InformationResponseItem-RL-ReconfResp      PRESENCE
    mandatory
    },
    ...
}

RL-InformationResponseItem-RL-ReconfResp ::= SEQUENCE {
    rL-ID          RL-ID,
    dCHsToBeAdded   DCH-AddList-RL-ReconfResp      OPTIONAL,
    dCHsToBeModified DCH-ModifyList-RL-ReconfResp   OPTIONAL,
    dSCHsToBeSetup  DSCH-SetupList-RL-ReconfResp    OPTIONAL,
    dSCHsToBeModified DSCH-ModifyList-RL-ReconfResp  OPTIONAL,
    uSCHsToBeSetup  USCH-SetupList-RL-ReconfResp    OPTIONAL,
    uSCHsToBeModified USCH-ModifyList-RL-ReconfResp  OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfResp-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-ReconfResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifyAddList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container {{DCH-ModifyAddList-RL-ReconfRespItemIE }}

```

```

DCH-ModifyAddList-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-ModifyAddList-RL-ReconfRespItem CRITICALITY ignore      TYPE DCH-ModifyAddList-RL-ReconfRespItem PRESENCE optional },
  ...
}

```

```

DCH-ModifyAddList-RL-ReconfRespItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions  ProtocolExtensionContainer { { DCH-AddList-RL-ReconfRespItem-ExtIEs } } OPTIONAL,
  ...
}

```

```

DCH-AddList-RL-ReconfRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DCH-AddModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
ProtocolIE-Container { {DCH-AddModifyList-RL-ReconfRespItemIE } }

```

```

DCH-AddModifyList-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-AddModifyList-RL-ReconfRespItem CRITICALITY ignore      TYPE DCH-AddModifyList-RL-ReconfRespItem PRESENCE optional },
  ...
}

```

```

DCH-AddModifyList-RL-ReconfRespItem ::= SEQUENCE (SIZE (1..maxnoofDCHs)) OF
SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions  ProtocolExtensionContainer { { DCH-ModifyList-RL-ReconfRespItem-ExtIEs } } OPTIONAL,
  ...
}

```

```

DCH-ModifyList-RL-ReconfRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DSCH-SetupList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
ProtocolIE-Container { {DSCH-SetupList-RL-ReconfRespItemIE } }

```

```

DSCH-SetupList-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-SetupList-RL-ReconfRespItem CRITICALITY ignore      TYPE DSCH-SetupList-RL-ReconfRespItem PRESENCE optional },
  ...
}

```

```

DSCH-SetupList-RL-ReconfRespItem ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
SEQUENCE {
  dSCH-ID          DSCH-ID,
  bindingID       BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions  ProtocolExtensionContainer { { DSCH-SetupList-RL-ReconfRespItem-ExtIEs } } OPTIONAL,

```

```

    ...
}

DSCH-SetupList-RL-ReconfRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    ProtocolIE-Container {{DSCH-ModifyList-RL-ReconfRespItemIE }}

DSCH-ModifyList-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-ModifyList-RL-ReconfRespItem CRITICALITY ignore TYPE DSCH-ModifyList-RL-ReconfRespItem PRESENCE optional },
    ...
}

DSCH-ModifyList-RL-ReconfRespItem ::= SEQUENCE (SIZE (1..maxnoofDSCHs)) OF
    SEQUENCE {
        dsch-ID DSCH-ID,
        bindingID BindingID,
        transportLayerAddress TransportLayerAddress,
        iE-Extensions ProtocolExtensionContainer { { DSCH-ModifyList-RL-ReconfRespItem-ExtIEs } } OPTIONAL,
        ...
    }

DSCH-ModifyList-RL-ReconfRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-SetupModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-SetupModifyList-RL-ReconfRespItemIE }}

USCH-SetupModifyList-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-SetupModifyList-RL-ReconfRespItem CRITICALITY ignore TYPE USCH-SetupModifyList-RL-ReconfRespItem PRESENCE optional },
    ...
}

USCH-SetupModifyList-RL-ReconfRespItem ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    SEQUENCE {
        usch-ID USCH-ID,
        cctrch-ID CCTrCH-ID,
        transportFormatSet TransportFormatSet,
        iE-Extensions ProtocolExtensionContainer { { USCH-SetupList-RL-ReconfRespItem-ExtIEs } } OPTIONAL,
        ...
    }

USCH-SetupList-RL-ReconfRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-ModifyList-RL-ReconfResp ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
    ProtocolIE-Container {{USCH-ModifyList-RL-ReconfRespItemIE }}

USCH-ModifyList-RL-ReconfRespItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-USCH-ModifyList-RL-ReconfRespItem      CRITICALITY ignore      TYPE USCH-ModifyList-RL-ReconfRespItem      PRESENCE optional },
    ...
}

USCH-ModifyList-RL-ReconfRespItem ::= SEQUENCE (SIZE (1..maxnoofUSCHs)) OF
SEQUENCE {
    uSCH-ID                USCH-ID,
    cTrCH-ID              CTrCH-ID      OPTIONAL,
    transportFormatSet    TransportFormatSet OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { USCH-ModifyList-RL-ReconfRespItem-ExtIEs } } OPTIONAL,
    ...
}

USCH-ModifyList-RL-ReconfRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationResponse-Extensions 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 rejectignore      TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
    { ID id-RL-informationList-RL-Del-Req     CRITICALITY notifyignore      TYPE RL-informationList-RL-Del-Req     PRESENCE mandatory } ,
    ...
}

RadioLinkDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-informationList-RL-Del-Req ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
ProtocolIE-Container {{RL-informationList-RL-Del-ReqItemIE }}

RL-informationList-RL-Del-ReqItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-informationList-RL-Del-ReqItem CRITICALITY notifyignore      TYPE RL-informationList-RL-Del-ReqItem PRESENCE mandatory } ,
    ...
}

```



```

RL-informationList-RL-Del-ReqItem ::= SEQUENCE {
    rL-ID          RL-ID,
    iE-Extensions      ProtocolExtensionContainer { { RL-informationList-RL-Del-ReqItem-ExtIEs } } OPTIONAL,
    ...
}

RL-informationList-RL-Del-ReqItem-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-CriticalityDiagnostic                CRITICALITY ignore        TYPE CriticalityDiagnostic          PRESENCE optional
    },
    ...
}

RadioLinkDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- DL POWER CONTROL REQUEST FDD
--
-- *****

DLPowerControlRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{DLPowerControlRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{DLPowerControlRequestFDD-Extensions}}          OPTIONAL,
    privateExtensions      PrivateExtensionContainer {{DLPowerControlRequestFDD-PrivateExtensions}} OPTIONAL,
    ...
}

DLPowerControlRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY ignore    TYPE NodeB-CommunicationContextID          PRESENCE mandatory } |
    { ID id-ProcedureScopeType-PC                CRITICALITY ignore    TYPE ProcedureScopeType-PC                PRESENCE mandatory } ,
    ...
}

```

```

DLPowerControlRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DLPowerControlRequestFDD-PrivateExtensions NBAP-PRIVATE-EXTENSION ::= {
    ...
}

ProcedureScopeType-PC ::= CHOICE {
    all-RL           All-RL-PC,
    individualRL    IndividualRL-PC,
    ...
}

All-RL-PC ::= ProtocolIE-Container {{ All-RLItemIE-PC }}

All-RLItemIE-PC NBAP-PROTOCOL-IES ::= {
    { ID id-All-RLItem-PC CRITICALITY ignore TYPE All-RLItem-PC PRESENCE mandatory },
    ...
}

All-RLItem-PC ::= SEQUENCE {
    dl-ReferencePower      DL-Power,
    iE-Extensions         ProtocolExtensionContainer { { All-RLItem-PC-ExtIEs } } OPTIONAL,
    ...
}

All-RLItem-PC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IndividualRL-PC ::= ProtocolIE-Container {{ IndividualRLItemIE-PC }}

IndividualRLItemIE-PC NBAP-PROTOCOL-IES ::= {
    { ID id-IndividualRLItem-PC CRITICALITY ignore TYPE IndividualRLItem-PC PRESENCE mandatory },
    ...
}

IndividualRLItem-PC ::= SEQUENCE {
    dl-ReferencePowerInformationList-PC DL-ReferencePowerInformationList-PC,
    iE-Extensions         ProtocolExtensionContainer { { IndividualRLItem-PC-ExtIEs } } OPTIONAL,
    ...
}

IndividualRLItem-PC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-ReferencePowerInformationList-PC ::= SEQUENCE (SIZE (1..maxnoeRls)) OF
    ProtocolIE-Container {{DL-ReferencePowerInformationList-PCItemIE }}

DL-ReferencePowerInformationList-PCItemIE NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-DL-ReferencePowerInformationList-PCItem      CRITICALITY ignore      TYPE DL-ReferencePowerInformationList-PCItem      PRESENCE
      mandatory
    },
    ...
}

```

```
DL-ReferencePowerInformationList-PCItem ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
```

```

SEQUENCE {
    rL-ID                RL-ID,
    dl-ReferencePower    DL-Power,
    iE-Extensions        ProtocolExtensionContainer { { DL-ReferencePowerInformationList-PCItem-ExtIEs } } OPTIONAL,
    ...
}

```

```
DL-ReferencePowerInformationList-PCItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```

    ...
}

```

```

-- *****
--
-- DEDICATED MEASUREMENT INITIATION REQUEST
--
-- *****

```

```

DedicatedMeasurementInitiationRequest ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{DedicatedMeasurementInitiationRequest-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
    ...
}

```

```
DedicatedMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
```

```

{ ID id-NodeB-CommunicationContextID      CRITICALITY rejectignore      TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
{ ID id-MeasurementID                     CRITICALITY rejectignore      TYPE MeasurementID                     PRESENCE mandatory } |
{ ID id-DedicatedMeasurementObjectType    CRITICALITY reject            TYPE DedicatedMeasurementObjectType    PRESENCE mandatory } |
{ ID id-DedicatedMeasurementObjectType-Req CRITICALITY ignore           TYPE DedicatedMeasurementObjectType-Req PRESENCE mandatory } |
{ ID id-DedicatedMeasurementType         CRITICALITY rejectignore      TYPE DedicatedMeasurementType         PRESENCE mandatory } |
{ ID id-MeasurementCharacteristics        CRITICALITY rejectignore      TYPE MeasurementCharacteristics        PRESENCE mandatory } |
{ ID id-ReportCharacteristics             CRITICALITY rejectignore      TYPE ReportCharacteristics             PRESENCE mandatory } ,
    ...
}

```

```
DedicatedMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```

    ...
}

```

```
DedicatedMeasurementObjectType-Req ::= ENUMERATED-CHOICE {
```

```

    rL                RL-DMeasureReq,
    all RL            All DMeasureReq
    ...
}

```

```
RL-DMeasureReq ::= ProtocolIE-Container {{ RLItemIE-DMeasureReq }}
```

```

RLItemIE-DMeasureReq NBAP-PROTOCOL-IES ::= {
  { ID id-RLItem-DMeasureReq  CRITICALITY reject TYPE RLItem-DMeasureReq  PRESENCE mandatory },
  ...
}

```

```

RLItem-DMeasureReq ::= SEQUENCE {
  rL-InformationList  RL-InformationList-DMeasureReq,
  iE-Extensions      ProtocolExtensionContainer { { RLItem-DMeasureReq-ExtIEs } } OPTIONAL,
  ...
}

```

```

RLItem-DMeasureReq-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

RL-InformationList-DMeasureReq ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container { { RL-InformationList-DMeasureReqItemIE } }

```

```

RL-InformationList-DMeasureReqItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationList-DMeasureReqItem  CRITICALITY ignore
  TYPE    RL-InformationList-DMeasureReqItem  PRESENCE mandatory
  },
  ...
}

```

```

RL-InformationList-DMeasureReqItem ::= SEQUENCE {
  rL-ID          RL-ID,
  dPCH-ID        DPCH-ID,
  iE-Extensions  ProtocolExtensionContainer { { RL-InformationList-DMeasureReqItem-ExtIEs } } OPTIONAL,
  ...
}

```

```

RL-InformationList-DMeasureReqItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

All-RL-Req ::= SEQUENCE {
  dedicatedMeasurementValue  DedicatedMeasurementValue
}

```

```

-- *****
--
-- DEDICATED MEASUREMENT INITIATION RESPONSE
--
-- *****

```

```

DedicatedMeasurementInitiationResponse ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{DedicatedMeasurementInitiationResponse-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
  ...
}

```

```

DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory } |
  { ID id-DedicatedMeasurementObjectType-Resp CRITICALITY ignore TYPE DedicatedMeasurementObjectType-Resp PRESENCE mandatory } |
  { ID id-CFN CRITICALITY ignore TYPE CFN PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic PRESENCE optional
  },
  ...
}

```

```

DedicatedMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DedicatedMeasurementObjectType-Resp ::= CHOICEENUMERATED {
  rL RL-Resp,
  all-RL All-RL-resp,
  ...
}

```

```

RL-Resp ::= ProtocolIE-Container {{ RLItemIE-Resp }}

```

```

RLItemIE-Resp NBAP-PROTOCOL-IES ::= {
  { ID id-RLItem-Resp CRITICALITY ignore TYPE RLItem-Resp PRESENCE mandatory },
  ...
}

```

```

RLItem-Resp ::= SEQUENCE {
  rL-InformationList-DMeasureResponse RL-InformationList-DmeasureResponse,
  iE-Extensions ProtocolExtensionContainer { { RLItem-Resp-ExtIEs } } OPTIONAL,
  ...
}

```

```

RLItem-Resp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

RL-InformationList-DmeasureResponse ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{RL-Information-DMeasureResponseItemIE }}

```

```

RL-Information-DMeasureResponseItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Information-DMeasureResponseItem CRITICALITY ignore TYPE RL-Information-DMeasureResponseItem PRESENCE mandatory
  },
  ...
}

```

```

RL-Information-DMeasureResponseItem ::= SEQUENCE {
  rL-ID RL-ID,
  dedicatedMeasurementValue DedicatedMeasurementValue,
  iE-Extensions ProtocolExtensionContainer { { RL-Information-DMeasureResponseItem-ExtIEs } } OPTIONAL,
  ...
}

```

```
RL-Information-DMeasureResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
All-RL-resp ::= ProtocolIE-Container {{ All-RLItemIE-resp }}
```

```
All-RLItemIE-resp NBAP-PROTOCOL-IES ::= {
  { ID id-All-RLItem-resp CRITICALITY ignore TYPE All-RLItem-Resp PRESENCE mandatory },
  ...
}
```

```
All-RLItem-Resp ::= SEQUENCE {
  dedicatedMeasurementValue DedicatedMeasurementValue,
  iE-Extensions ProtocolExtensionContainer { { All-RLItem-Resp-ExtIEs } } OPTIONAL,
  ...
}
```

```
All-RLItem-Resp-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-CriticalityDiagnostic CRITICALITY ignore TYPE CriticalityDiagnostic 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-Rep CRITICALITY ignore    TYPE DedicatedMeasurementObjectType-Rep PRESENCE mandatory } |
    { ID id-CFN                            CRITICALITY ignore    TYPE CFN                          PRESENCE mandatory },
    ...
}
```

```
DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DedicatedMeasurementObjectType-Rep ::= CHOICEENUMERATED {
    rL          RL-Rep,
    all-RL      All-RL-Rep,
    ...
}
```

```
RL-Rep ::= ProtocolIE-Container {{ RLItemIE-Rep }}
```

```
RLItemIE-Rep NBAP-PROTOCOL-IES ::= {
{ ID id-RLItem-Rep    CRITICALITY ignore TYPE RLItem-Rep    PRESENCE mandatory },
...
}
```

```
RLItem-Rep ::= SEQUENCE {
    rL-InformationList-DMeasureReport    RL-InformationList-DMeasureReport,
    iE-Extensions                        ProtocolExtensionContainer { { RLItem-Rep-ExtIEs } OPTIONAL,
    ...
}
```

```
RLItem-Rep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
RL-InformationList-DMeasureReport ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
    ProtocolIE-Container {{RL-Information-DMeasureReportItemIE }}
```

```
RL-Information-DMeasureReportItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-DMeasureReportItem    CRITICALITY ignore    TYPE RL-Information-DMeasureReportItem    PRESENCE mandatory },
    ...
}
```

```
RL-Information-DMeasureReportItem ::= SEQUENCE {
    rL-ID          RL-ID,
```

```

dedicatedMeasurementValue      DedicatedMeasurementValue,
iE-Extensions                   ProtocolExtensionContainer { { RL-Information-DMeasureReportItem-ExtIEs } } OPTIONAL,
...
}

RL-Information-DMeasureReportItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

All-RL-Rep ::= ProtocolIE-Container { { All-RLItemIE-Rep } }

All-RLItemIE-Rep NBAP-PROTOCOL-IES ::= {
{ ID id-All-RLItem-Rep      CRITICALITY ignore TYPE All-RLItem-Rep      PRESENCE mandatory },
...
}

All-RLItem-Rep ::= SEQUENCE {
dedicatedMeasurementValue      DedicatedMeasurementValue,
iE-Extensions                   ProtocolExtensionContainer { { All-RLItem-Rep-ExtIEs } } OPTIONAL,
...
}

All-RLItem-Rep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- DEDICATED MEASUREMENT TERMINATION REQUEST
--
-- *****

DedicatedMeasurementTerminationRequest ::= SEQUENCE {
protocolIEs                      ProtocolIE-Container      {{DedicatedMeasurementTerminationRequest-IEs}},
protocolExtensions                ProtocolExtensionContainer {{DedicatedMeasurementTerminationRequest-Extensions}}
OPTIONAL,
...
}

DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-NodeB-CommunicationContextID      CRITICALITY ignore      TYPE NodeB-CommunicationContextID      PRESENCE mandatory } |
{ ID id-MeasurementID                      CRITICALITY ignore      TYPE MeasurementID                      PRESENCE mandatory },
...
}

DedicatedMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--

```



```
-- DEDICATED MEASUREMENT FAILURE INDICATION
```

```
--
-- *****
```

```
DedicatedMeasurementFailureIndication ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{DedicatedMeasurementFailureIndication-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}}
  ...
}
OPTIONAL,
```

```
DedicatedMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID    CRITICALITY ignore    TYPE CRNC-CommunicationContextID    PRESENCE mandatory } |
  { ID id-MeasurementID                  CRITICALITY ignore    TYPE MeasurementID                  PRESENCE mandatory } |
  { ID id-Cause                          CRITICALITY ignore    TYPE Cause                          PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic           CRITICALITY ignore    TYPE CriticalityDiagnostic          PRESENCE optional
},

```

```
...
}
```

```
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-RL-InformationList-RL-FailInd  CRITICALITY ignore    TYPE RL-InformationList-RL-FailInd  PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic          CRITICALITY ignore    TYPE CriticalityDiagnostic          PRESENCE optional
},
  ...
}
```

```
RadioLinkFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
RL-InformationList-RL-FailInd ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{ RL-InformationList-RL-FailIndItemIE }}
```

```

RL-InformationList-RL-FailInd-ItemIE NBAP-PROTOCOL-IES ::= {
  { I-D id-RL-InformationList-RL-FailIndItem CRITICALITY ignore      TYPE RL-InformationList-RL-FailIndItem      PRESENCE mandatory  },
  ...
}

RL-InformationList-RL-FailIndItem ::= SEQUENCE {
  rL-ID          RL-ID,
  cause          Cause,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationList-RL-FailIndItem-ExtIEs } } OPTIONAL,
  ...
}

RL-InformationList-RL-FailIndItem-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-RL-InformationList-RL-RestoreInd CRITICALITY ignore  TYPE RL-InformationList-RL-RestoreInd PRESENCE mandatory  },
  ...
}

RadioLinkRestoreIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxnoofRLs)) OF
  ProtocolIE-Container {{RL-InformationList-RL-RestoreIndItemIE }}

RL-InformationList-RL-RestoreIndItemIE NBAP-PROTOCOL-IES ::= {
  { I-D id-RL-InformationList-RL-RestoreIndItem CRITICALITY ignore      TYPE RL-InformationList-RL-RestoreIndItem PRESENCE mandatory  },
  ...
}

RL-InformationList-RL-RestoreIndItem ::= SEQUENCE {
  rL-ID          RL-ID,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationList-RL-RestoreIndItem-ExtIEs } } OPTIONAL,
  ...
}

```

```
RL-InformationList-RL-RestoreIndItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
    ...
}
```

```
-- *****
--
-- COMPRESSED MODE PREPARE FDD
--
-- *****
```

```
CompressedModePrepareFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CompressedModePrepareFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CompressedModePrepareFDD-Extensions}}
    ...
}
```

```
CompressedModePrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY ignorereject          TYPE NodeB-CommunicationContextID  PRESENCE mandatory } |
    { ID id-TGP1                                CRITICALITY ignorereject          TYPE TGP1                          PRESENCE mandatory } |
    { ID id-TGP2                                CRITICALITY ignorereject          TYPE TGP2                          PRESENCE optional } |
    { ID id-TGL                                  CRITICALITY ignorereject          TYPE TGL                            PRESENCE mandatory } |
    { ID id-TGD                                  CRITICALITY ignorereject          TYPE TGD                            PRESENCE mandatory } |
    { ID id-UL-DL-CompressedModeSeletion         CRITICALITY ignorereject          TYPE UL-DL-CompressedModeSeletion  PRESENCE mandatory } |
    { ID id-CompresseddsModeMethod              CRITICALITY ignorereject          TYPE CompresseddsModeMethod        PRESENCE mandatory } |
    { ID id-TransmitGapPositionMode             CRITICALITY ignorereject          TYPE TransmitGapPositionMode       PRESENCE mandatory } |
    { ID id-SN                                  CRITICALITY ignorereject          TYPE SN                             PRESENCE optional } |
    -- This IE is present if Gap position mode = 'flexible position'--
    { ID id-DL-FrameType                        CRITICALITY ignorereject          TYPE DL-FrameType                  PRESENCE mandatory } |
    { ID id-ScramblingCodeChange                CRITICALITY ignorereject          TYPE ScramblingCodeChange          PRESENCE optional } |
    -- This IE is present if Compressed mode method = 'SF/2' --
    { ID id-PowerControlMode                    CRITICALITY ignorereject          TYPE PowerControlMode              PRESENCE mandatory } |
    { ID id-PowerResumeMode                    CRITICALITY ignorereject          TYPE PowerResumeMode               PRESENCE mandatory } |
    { ID id-UL-DeltaEb-No                      CRITICALITY ignorereject          TYPE UL-DeltaEb-No                 PRESENCE mandatory } |
    { ID id-UL-DeltaEb-NoAfter                 CRITICALITY ignorereject          TYPE UL-DeltaEb-NoAfter            PRESENCE mandatory },
    ...
}
```

```
CompressedModePrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
-- *****
--
-- COMPRESSED MODE READY FDD
--
-- *****
```

```
CompressedModeReadyFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CompressedModeReadyFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CompressedModeReadyFDD-Extensions}}
    ...
}
```

```

}

CompressedModeReadyFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID      CRITICALITY ignore      TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic            CRITICALITY ignore      TYPE CriticalityDiagnostic      PRESENCE optional },
  ...
}

CompressedModeReadyFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMPRESSED MODE COMMIT FDD
--
-- *****

CompressedModeCommitFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{CompressedModeCommitFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{CompressedModeCommitFDD-Extensions}}      OPTIONAL,
  ...
}

CompressedModeCommitFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID      CRITICALITY ignore      TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
  { ID id-CFN                               CRITICALITY ignore      TYPE CFN                          PRESENCE mandatory },
  ...
}

CompressedModeCommitFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMPRESSED MODE FAILURE FDD
--
-- *****

CompressedModeFailureFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{CompressedModeFailureFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{CompressedModeFailureFDD-Extensions}}      OPTIONAL,
  ...
}

CompressedModeFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID      CRITICALITY ignore      TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID id-Cause                            CRITICALITY ignore      TYPE Cause                        PRESENCE mandatory } |
  { ID id-CriticalityDiagnostic            CRITICALITY ignore      TYPE CriticalityDiagnostic        PRESENCE optional
  },
}

```

```

}
...
CompressedModeFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- COMPRESSED MODE CANCEL FDD
--
-- *****

CompressedModeCancelFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CompressedModeCancelFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CompressedModeCancelFDD-Extensions}}      OPTIONAL,
    ...
}

CompressedModeCancelFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY ignore          TYPE NodeB-CommunicationContextID PRESENCE mandatory },
    ...
}

CompressedModeCancelFDD-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-Cause          CRITICALITY ignore          TYPE Cause          PRESENCE mandatory } |
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE CRNC-CommunicationContextID          PRESENCE optional } |
    -- This IE is only present when message is transmitted by RNC --
    { ID id-NodeB-CommunicationContextID          CRITICALITY ignore          TYPE NodeB-CommunicationContextID          PRESENCE optional } |
    -- This IE is only present when message is transmitted by NodeB --
    { ID id-CriticalityDiagnostic          CRITICALITY ignore          TYPE H3CriticalityDiagnostic          PRESENCE optional },
    -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
    ...
}

```

```
ErrorIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
END
```

9.3.4 NBAP Information Elements

```
--*****
--
-- Information Element Definitions
--
--*****
```

```
NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
```

```
IMPORTS
```

```
    maxTTIcount,
    maxTFcount,
    maxnoofTFCs,
    maxCTF-1,
    maxRM7
```

```
FROM NBAP-Constants;
```

```
-- Definitions missing!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
-- FB to be done 333
ToBeDefined ::= INTEGER
TBD ::= ToBeDefined
```

```
Cell-Parameter-ID ::= ToBeDefined
CommonMeasurementValue ::= ToBeDefined
CriticalityDiagnostic ::= ToBeDefined
DSCH-TFCS ::= ToBeDefined
FrameOffset ::= ToBeDefined
FrameTDDPhysicalChannelOffset ::= ToBeDefined
Mode-SemiStatic ::= ToBeDefined
MultiplexingPosition ::= ToBeDefined
RepetitionPeriod ::= ToBeDefined
SAI ::= ToBeDefined
ScramblingCode ::= ToBeDefined
SecondaryCPICH-Power ::= ToBeDefined
SFN ::= ToBeDefined
SlotFormat ::= ToBeDefined
SN ::= ToBeDefined
```

```

SSDT-CellIdentityLength ::= ToBeDefined
TDDChannelisationOffset ::= ToBeDefined
TDD-PhysicalChannelOffset ::= ToBeDefined
TFCI-Coding ::= ToBeDefined
TGP1 ::= ToBeDefined
TGP2 ::= ToBeDefined
TransmissionDiversityApplied ::= ToBeDefined
TransmitGapPositionMode ::= ToBeDefined
TransportFormatCombinationSet ::= ToBeDefined
TransportFormatSet ::= ToBeDefined
UL-DeltaEb-No ::= ToBeDefined
UL-DeltaEb-NoAfter ::= ToBeDefined
UL-DL-CompressedModeSeletion ::= ToBeDefined
UL-DPCCH-SlotFormat ::= ToBeDefined
USCH-ID ::= ToBeDefined

```

```

DTX-InsertionPoint ::= INTEGER
DedicatedMeasurementValue ::= INTEGER
DeltaTPC ::= INTEGER

```

```

-----
-- A
-----

```

```

-- to do
-- FB to be done 444

```

```

AcknowledgedRA-TriesValue ::= ToBeDefinedED

```

```

AddOrDeleteIndicator ::= ENUMERATED {
add,
delete
}

```

```

AICH-TransmissionTiming ::= ENUMERATED {
timing0,
timing1
}

```

```

AvailabilityStatus ::= ENUMERATED {
empty,
in-test,
failed,
power-off,
off-line,
off-duty,
dependency,
degraded,
not-installed,
log-full,
...
}

```

```

}

--to do
AveragingDuration ::= TBD

-----
-- B
-----

| BCCH-ModificationTime ::= INTEGER (0| 2| 4+ .. + 4095)

BindingID ::= OCTET STRING (SIZE (4))

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.

BurstType ::= ENUMERATED {
type1,
type2
}

-----
-- C
-----

| Cause ::= CHOICEENUMERATED {
radioNetworkLayer      RadioNetworkLayerCause,
transportLayer         TransportLayerCause,
protocol               ProtocolCause,
misc                   MiscellaneousCause,
...
}

CCTrCH-ID ::= INTEGER (1..15)

CellID-Length ::= ENUMERATED {
short,
medium,
long
}

CFN ::= INTEGER (0..255)

ChipOffset ::= INTEGER (0..38399)

C-ID ::= INTEGER (0..65535)

```



```
CodingRate ::= ENUMERATED {
  rate1-2,
  rate1-3
}
```

```
CommonMeasurementObjectType ::= ENUMERATED {
  cell,
  rach,
  ...
}
```

```
CommonMeasurementType ::= SEQUENCE {
  rssi                RSSI-Value,
  transmitted-carrier-power    TransmittedCarrierPowerValue,
  acknowledged-ra-tries      AcknowledgedRA-TriesValue,
  time-slot-iscp            TimeSlotISCP-Value,
  ...
}
```

```
CommonPhysicalChannelID ::= INTEGER (0..255)
```

```
CommonTransportChannelID ::= INTEGER (0..255)
```

```
CommunicationControlPortID ::= INTEGER (0..65535)
```

```
CompressedModeMethod ::= ENUMERATED {
  puncturing,
  sF-2,
  gating,
  none
}
```

```
ConfigurationGenerationID ::= INTEGER (0..255)
```

```
CRC-Size ::= ENUMERATED {
  size0,
  size12,
  size16,
  size24
}
```

```
CRNC-CommunicationContextID ::= INTEGER (0..1048575)
```

```
CTFC ::= INTEGER (0..maxCTF-1)
```

```
-----
-- D
-----
```

```
DCH-CombinationIndication ::= INTEGER (0..255)
```

```
DCH-ID ::= INTEGER (0..255)
```

```

DedicatedMeasurementObjectType1 ::= ENUMERATED {
cell,
rach,
...
}

```

```

DedicatedMeasurementObjectType2 ::= SEQUENCE {
sir-value          SIR-Value          OPTIONAL,
sir-error-value    SIR-ErrorValue     OPTIONAL,
transmitted-code-power TransmittedCodePowerValue OPTIONAL,
time-slot-iscp     TimeSlotISCP-Value OPTIONAL,
...
}

```

```

DedicatedMeasurementObjectType3 ::= ENUMERATED {
r1,
all-r1,
...
}

```

-- Reference: 25.215 and 25.225

```

DedicatedMeasurementType ::= ENUMERATED {
sir,
sir-error,
transmitted-code-power,
timeslot-iscp,
...
}

```

```

D-FieldLength ::= ENUMERATED {
d-length1,
d-length2
}

```

```

DiversityControlField ::= ENUMERATED {
may,
must,
must-not
}

```

```

DiversityIndication ::= ENUMERATED {
combined,
not-combined
}

```

```

DiversityMode ::= ENUMERATED {
none,
sTD,
closed-loop-mode1,
closed-loop-mode2
}

```

```

DL-DPCH-SlotFormat ::= INTEGER (0..16)

DL-FrameType ::= ENUMERATED {
typeA,
typeB
}

-- -35..15 is transformed into 0..50. 0.1 steps gives 0..500
-- Power0 indicates -35dB, Power1 indicates -34.9dB, ..., Power500 indicates 15dB
DL-Power ::= ENUMERATED {
power0,
power1,
...
}

-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --
DL-ScramblingCode ::= INTEGER (0..15)

DPCH-ID ::= INTEGER (0..15239)

DPCH-Offset ::= INTEGER (0..255)

DSCH-ID ::= INTEGER (0..255)

-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TransportFormatSet ::= TBD

-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TransportFormatCombinationSet ::= TBD

DTX-InsertionPosition ::= ENUMERATED {
fixed,
flexible
}

DynamicTransportFormatInformation ::= SEQUENCE (SIZE (1..maxTFcount)) OF
SEQUENCE {
numberOfTransportBlocks      NumberOfTransportBlocks,
transportBlockSize           TransportBlockSize OPTIONAL
-- This IE is only present if Number of Transport Blocks is greater than 0 --,
mode-dynamicTFS              Mode-DynamicTFS,
...
}

-----
-- E
-----

EventA ::= SEQUENCE {
measurementThreshold          MeasurementThreshold,

```



```

| Gap-Position-Mode ::= ENUMERATED {
  fixed,
  flexible
}

-----
-- H
-----

-----
-- I
-----

-- to do
IB-SG ::= BIT STRING

IB-SG-POS ::= INTEGER (0..4095)

| IB-SG-REP ::= INTEGER {rep16(16), rep32(32), rep64(64), rep128(128), rep256(256), rep512(512), rep1024(1024), rep2048(2048)}

| IB-Type ::= ENUMERATEDEnumerated {
  mibMIB,
  sibSIB1,
  sibSIB2,
  sibSIB12
}

IndicationType ::= ENUMERATED {
  noFailure,
  serviceImpacting,
  cellControl,
  ...
}

-----
-- J
-----

-----
-- L
-----

LocalCell-ID ::= INTEGER (0..268435455)

-----
-- M
-----

-- dBm, granularity 1 dBm
-- dl-power0 indicates 0 dBm
| MaximumDL-PowerCapability ::= ENUMERATED{
  dl-power0,
  dl-power1,

```

```

dl-power2,
...
}

-- Unit dBm, 0 to 50, Granularity 1 dB
MaximumTransmissionPower ::= ENUMERATED {
power0,
power1,
power2,
...
}

MaxNumberOfUL-DPDCHs ::= INTEGER (1..6)

| MaxPRACH-MidambleShifts ::= ENUMERATED {
shift4,
shift8
}

-- 10ms to 1min, Step10ms
MeasurementChangeTime ::= ENUMERATED {
time10ms,
time20ms,
time30ms,
...
}

MeasurementCharacteristics ::= SEQUENCE {
    measurementFrequency MeasurementFrequency,
    averagingDuration AveragingDuration
}

-- to do
MeasurementDecreaseThreshold ::= TBD

-- to do
MeasurementFrequency ::= TBD

-- to do
MeasurementIncreaseThreshold ::= TBD

-- to do
-- 10ms to 1min, Step10ms --
MeasurementHysteresisTime ::= ENUMERATED {
time10ms,
time20ms,
time30ms,
...
}

MeasurementID ::= INTEGER (0..1048575)

```

```
-- to do
MeasurementThreshold ::= TBD

-- to do
MeasurementThreshold1 ::= TBD

-- to do
MeasurementThreshold2 ::= TBD

MeasurementType ::= ENUMERATED {
sCH,
syncRACH-access
}

MessageDiscriminator ::= ENUMERATED {
common,
dedicated
}

MidambleShift ::= INTEGER (0..15)

MinimumSpreadingFactor ::= ENUMERATED {
sF4,
sF16,
sF32,
sF64,
sF128,
sF256,
sF512
}

MinUL-ChannelisationCodeLength ::= ENUMERATED {
code-length4,
code-length8,
code-length16,
code-length32,
code-length64,
code-length128,
code-length256
}

MiscellaneousCause ::= ENUMERATED {
control-processing-overload,
hardware-failure,
oam-intervention,
not-enough-user-plane-processing-resources,
unspecified
}

Mode-DynamicTFS ::= CHOICE {
tdd-mode-dynamic    TransmissionTimeInterval-Dynamic,
...
}
```

```
Mode-SemiStaticTFS ::= CHOICE {  
    tdd-mode-semistatic TransmissionTimeInterval-SemiStatic,  
    .....  
}
```

```
-----  
-- N  
-----
```

```
-- to do  
NumberOfChannelElements ::= TBD
```

```
NodeB-CommunicationContextID ::= INTEGER (0..1048576)
```

```
NumberOfTransportBlocks ::= INTEGER (0..4095)
```

```
-----  
-- O  
-----
```

```
-----  
-- P  
-----
```

```
PagingIndicatorLength ::= ENUMERATED {  
    ind-length2,  
    ind-length4,  
    ind-length8  
}
```

```
PayloadCRC-PresenceIndicator ::= ENUMERATED {  
    cRC-Included,  
    cRC-NotIncluded  
}
```

```
PD ::= INTEGER(0..2047)
```

```
PICH-Mode ::= ENUMERATED {  
    noofPI18,  
    noofPI36,  
    noofPI72,  
    noofPI144  
}
```

```
PilotBitsUsedIndicator ::= ENUMERATED {  
    pilot-bits-used,  
    pilot-bits-not-used  
}
```

```
PowerControlMode ::= ENUMERATED {  
    pcm0,  
    pcm1,  
}
```



```

...
}

-- Chips. Step size is 3 chips. 0=0 chips, 1=3 chips .. --
--** TODO. -15..40 is transformed to 0..55. 0.1 steps gives 0..550 **
PowerOffset ::= INTEGER (0..24)

PowerResumeMode ::= ENUMERATED {
prn0,
prn1,
...
}

PRACH-Midamble ::= ENUMERATED {
inverted,
direct
}

PreambleScramblingCode ::= INTEGER (0..4095)

-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 [25.213] --
PreambleSignatures ::= BIT STRING (SIZE (16))

-- Unit dBm, -15 to 40, Granularity 0.1 dB
-- cpich-power1 indicates 5 dB
PrimaryCPICH-Power ::= ENUMERATED {
cpich-power1,
cpich-power2,
...
}

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)

ProtocolCause ::= 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
}

-- PCCPCH Power unit dBm
-- PCCPCH Power step 0.1dBm
PCCPCH-Power ::= INTEGER (-15..40)

PunctureLimit ::= INTEGER (0..100)

PSCH-TimeSlot ::= INTEGER (0..6)

```

```
PSCH-Power ::= INTEGER (0..511)
```

```
PUSCH-Offset ::= INTEGER (0..255)
```

```
-----  
-- R  
-----
```

```
-- SF
```

```
RACH-SlotFormat ::= ENUMERATED {  
format256,  
format128,  
format64,  
format32  
}
```

```
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 14=Sub Channel Number 14 --  
RACH-SubChannelNumbers ::= BIT STRING (SIZE (15))
```

```
| RadioNetworkLayerCause ::= ENUMERATED 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,  
r1-Already-ActivatedorAllocated,  
nodeB-Resources-Unavailable,  
insufficient-physical-channel-resources,  
measurement-not-supported-for-the-object,  
macrodiversity-combining-not-possible,  
reconfiguration-not-allowed,  
requested-configuration-not-supported,  
synchronization-failure,  
unspecified  
}
```

```
RateMatchingAttribute ::= INTEGER (1..maxRM)
```

```
RepetitionLength ::= ENUMERATED {  
length1,  
length2,  
length4,  
length8  
}
```

```
| ReportCharacteristicsType ::= CHOICE {  
onDemand          NULL,  
periodic          ReportPeriodicity,  
event-a           EventA,  
event-b           EventB,  
event-c           EventC,  
}
```

```

    event-d          EventD,
    event-e          EventE,
    event-f          EventF,
    ...
}

-- 10ms to 1min, step 10ms or
-- 1min to 1hour, step 1min
ReportPeriodicity ::= CHOICE {
    msec          INTEGER (1..1000),
    min           INTEGER (1..60)
}

ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled
}

RLC-Mode ::= ENUMERATED {
    acknowledgedMode,
    unacknowledgedMode,
    transparentMode
}

RL-ID ::= INTEGER (0..31)

RNC-ID ::= INTEGER (0..4095)

-- -30..-100 step 0.1
-- rssi1 indicates -30
RSSI-Value ::= ENUMERATED {
    rssi1,
    rssi2,
    ...
}
-----
-- S
-----

ScramblingCodeChange ::= ENUMERATED {
    change,
    no-change
}

Scrambling-Code-Word-Number ::= INTEGER (0..255)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..8)

SegmentType ::= ENUMERATED {
    first,
    subsequent,
    last,
    complete
}

```

```

}

SemiStaticTransportFormatInformation ::= SEQUENCE {
    transmissionTimeInterval      TransmissionTimeInterval,
    typeOfChannelCoding          TypeOfChannelCoding,
    codingRate                    CodingRate OPTIONAL
    -- This IE is only present if IE Type of channel coding is Convolutional or Turbo --,
    rateMatchingAttribute        RateMatchingAttribute,
    CRC-Size                      CRC-Size,
    mode-semistatic              Mode-SemiStatic
}

S-FieldLength ::= ENUMERATED {
    s-length1,
    s-length2
}

SIB-DeletionIndicator ::= ENUMERATED {
    noDeletion,
    deletion
}

SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC
}

--** TODO. -10..10 is transformed to 0..10. 0.1 steps gives 0..200 **
-- sir-error-value1 indicates 0 dB
SIR-ErrorValue ::= ENUMERATED {
    sir-error-value1,
    sir-error-value2,
    ...
}

--** TODO. -10..20 is transformed to 0..30. 0.1 steps gives 0..300 **
-- sir-value1 indicates 0 dB
SIR-Value ::= ENUMERATED {
    sir-value1,
    sir-value2,
    ...
}

SSDT-CellIdentity ::= ENUMERATED {a, b, c, d, e, f, g, h}

SSDT-Indication ::= ENUMERATED {
    ssdtActiveInTheUE,
    ssdtNotActiveInTheUE
}

STD-Indicator ::= ENUMERATED {
    active,
    inactive
}

```

}

```
SSDT-SupportIndicator ::= ENUMERATED {
sSDT-not-supported,
sSDT-Supported
}
```

```
ShutdownTimer ::= INTEGER (1..3600)
```

```
| SyncCase-CellsetupReqTDD ::= ENUMERATED {case1, case2, case3}
```

```
SynchronisationMethod ::= ENUMERATED {
external-reference,
locked-toMaster-cell,
one-time-synchronisation
}
```

```
-----
-- T
-----
```

```
T-Cell ::= ENUMERATED {
chip-0,
chip-256,
chip-512,
chip-768,
chip-1024,
chip-1280,
chip-1536,
chip-1892,
chip-2048,
chip-2304
}
```

```
TDD-ChannelisationCode ::= ENUMERATED {
channelisationCode1-1,
channelisationCode2-1,
channelisationCode2-2,
channelisationCode4-1,
channelisationCode4-2,
...
}
```

```
-- the ChipOffset is -19200 to + 19199
TDD-ChipOffset ::= INTEGER (-19200..19199)
```

```
TransmissionTimeInterval-Dynamic ::= SEQUENCE (SIZE (1..maxTTIcount)) OF
ENUMERATED {tti10, tti20, tti40, tti80}
```

```
| +
```

```
TransmissionTimeInterval-SemiStatic ::= ENUMERATED {
frameRelated,
timeSlotRelated
```

```

}

TDD-S-CCPCH-Offset ::= INTEGER (0..63)

TFCI-Presence ::= ENUMERATED {
present,
not-present
}

TFCI-SignallingMode ::= ENUMERATED {
normal,
split
}

TFCS ::= SEQUENCE (SIZE (1..maxnoofTFCs)) OF
SEQUENCE {
CTFC CTFC
}

TFS ::= SEQUENCE {
dynamicTransportFormatInformation
semiStaticTransportFormatInformation
}

DynamicTransportFormatInformation,
SemiStaticTransportFormatInformation

| TGD ::= INTEGER (0..255)
| TGL ::= INTEGER (3|7|10|14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
ul,
dl
}

-- to do
TimeSlotISCP-Value ::= TBD

TimeSlotStatus ::= ENUMERATED {
active,
not-active
}

ToAWE ::= INTEGER (0..2559) -- msec. --
ToAWS ::= INTEGER (0..1279) -- msec. --

TPC-DownlinkStepSize ::= ENUMERATED {
step-size0-5,
step-size1
}

```

```

}

| Transmit-Diversity-Indicationer ::= ENUMERATED {
| active,
| inactive
| }

TransmissionTimeInterval ::= ENUMERATED {
time-interval10,
time-interval20,
time-interval40,
time-interval80
}          -- mec --

--** TODO. -35..15 is transformed to 0..50. 0.1 steps gives 0..500 **
-- carrier-power1 indicates 5 dB
TransmittedCarrierPowerValue ::= ENUMERATED {
carrier-power1,
carrier-power2,
...
}

--** TODO. -35..15 is transformed to 0..50. 0.1 steps gives 0..500 **
-- code-power1 indicated 5 dB
TransmittedCodePowerValue ::= ENUMERATED {
code-power1,
code-power2,
...
}

TransportBlockSize ::= INTEGER (1..5000)
-- bit --

TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

TransportLayerAddress ::= OCTET STRING (SIZE (1..20, ...))

TransportLayerCause ::= ENUMERATED {
transport-link-failure,
transmission-port-not-available,
transport-resource-unavailable,
unspecified
}

TypeOfChannelCoding ::= ENUMERATED {
no-coding,
convolutional,
turbo
}

```

```
-----  
-- U  
-----
```

```
UARFCN ::= INTEGER (174 .. 474)
```

```
UL-DL-CompressedModeSelection ::= ENUMERATED {  
ul-only,  
dl-only,  
both-UlandDL  
}
```

```
UL-DPCH-SlotFormat ::= INTEGER (0..5)
```

```
UL-EbNo ::= INTEGER (0..255)  
-- Resolution is 0.1 dB, range 0-25.5 dB --
```

```
UL-FP-Mode ::= ENUMERATED {  
normal,  
silent  
}
```

```
-- unit dBm, step 0.1dBm
```

```
UL-InterferenceLevel ::= INTEGER (-128..60)
```

```
UL-PunctureLimit ::= INTEGER (0..100)
```

```
UL-ScramblingCode ::= SEQUENCE {  
    uL-ScramblingCodeNumber    UL-ScramblingCodeNumber,  
    uL-ScramblingCodeLength    UL-ScramblingCodeLength  
}
```

```
-- 2^24
```

```
UL-ScramblingCodeLength ::= INTEGER (0..16777215)
```

```
UL-ScramblingCodeNumber ::= ENUMERATED {  
short,  
long  
}
```

```
UplinkDeltaEb-No ::= ENUMERATED {  
deltaEb-No-6dB,  
...  
}
```

```
UplinkDeltaEb-No-after ::= ENUMERATED {  
deltaEb-No-after-6dB,  
...  
}
```

```
| END
```


9.3.5 NBAP Common Data Type Definitions

```

-- *****
--
-- Common definitions
--
-- *****

| NBAP-CommonDataTypes -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality      ::= ENUMERATED { reject, ignore, notify }

MessageDiscriminator ::= ENUMERATED { common, dedicated }

Presence        ::= ENUMERATED { optional, conditional, mandatory }

PrivateExtensionID ::= CHOICE {
    local          INTEGER (0..65535),
    global         OBJECT IDENTIFIER
}

ProcedureID     ::= SEQUENCE {
    procedureCode  INTEGER (0..255),
    ddMode        ENUMERATED { tdd, fdd, common }
}

ProtocolExtensionID ::= INTEGER (0..65535)

ProtocolIE-ID   ::= INTEGER (0..65535)

TransactionID   ::= INTEGER (0..255)

| END

```

9.3.6 NBAP Extension Definitions

```

-- *****
--
-- Container definitions
--
-- *****

| NBAP-Containers -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****

```

```

--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    Presence,
    PrivateExtensionID,
    ProtocolExtensionID,
    ProtocolIE-ID
FROM NBAP-CommonDataTypes

    maxProtocolExtensions,
    maxPrivateExtensions,
    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
}
WITH SYNTAX {
    ID      &id
    CRITICALITY &criticality
    EXTENSION &Extension
}

-- *****
--
-- Class Definition for Private Extensions
--
-- *****

NBAP-PRIVATE-EXTENSION ::= CLASS {
    &id      PrivateExtensionID,
    &criticality  Criticality,
    &Extension
}
WITH SYNTAX {
    ID      &id
    CRITICALITY &criticality
    EXTENSION &Extension
}

-- *****
--
-- 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 Extensions
--
-- *****
PrivateExtensionContainer {NBAP-PRIVATE-EXTENSION : ExtensionSetParam} ::=
  SEQUENCE (SIZE (1..maxPrivateExtensions)) OF
    PrivateExtensionField {{ExtensionSetParam}}

PrivateExtensionField {NBAP-PRIVATE-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
  id          NBAP-PRIVATE-EXTENSION.&id
    ({ExtensionSetParam}),
  criticality NBAP-PRIVATE-EXTENSION.&criticality
    ({ExtensionSetParam}{@id}),
  extensionValue NBAP-PRIVATE-EXTENSION.&Extension
    ({ExtensionSetParam}{@id})
}

END

```

9.3.7 Constant Definitions for NBAP

```

-- *****
--
-- Constant definitions
--
-- *****

NBAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- Definitions missing!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
-- FB to be done 555
toBeDefined INTEGER ::= 1

maxIB INTEGER ::= toBeDefined
maxIBSEG INTEGER ::= toBeDefined
maxPRACHCell INTEGER ::= toBeDefined
maxSCCPCHCell INTEGER ::= toBeDefined
maxSCPICHCell INTEGER ::= toBeDefined
maxTTIcount INTEGER ::= toBeDefined

-- *****
--
-- 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-commonTransportChannelDeletion  INTEGER ::= 10
id-commonTransportChannelReconfiguration  INTEGER ::= 11
id-commonTransportChannelSetup  INTEGER ::= 12
id-compressedModeControlCancellation  INTEGER ::= 13
id-compressedModeControlCommit  INTEGER ::= 14
id-compressedModeControlPreparation  INTEGER ::= 15
id-dedicatedMeasurementFailure  INTEGER ::= 16
id-dedicatedMeasurementInitiation  INTEGER ::= 17
id-dedicatedMeasurementReport   INTEGER ::= 18
id-dedicatedMeasurementTermination  INTEGER ::= 19
id-dlPowerControl          INTEGER ::= 20
id-errorIndication         INTEGER ::= 21
id-neighbourCellMeasurement INTEGER ::= 21
id-radioLinkAddition       INTEGER ::= 22
id-radioLinkDeletion       INTEGER ::= 23
id-radioLinkFailure        INTEGER ::= 24
id-radioLinkReconfigurationCommit  INTEGER ::= 25
id-radioLinkReconfigurationCancel  INTEGER ::= 26
id-radioLinkRestoration    INTEGER ::= 27
id-radioLinkSetup          INTEGER ::= 28
id-resourceStatusIndication  INTEGER ::= 29
id-synchronisationAdjustment INTEGER ::= 30
id-synchronisationFailure INTEGER ::= 31
id-synchronisationRestart INTEGER ::= 32
id-synchronisedRadioLinkReconfigurationPreparation  INTEGER ::= 303
id-systemInformationUpdate  INTEGER ::= 314
id-unblockResource         INTEGER ::= 325
id-unsynchronisedRadioLinkReconfiguration  INTEGER ::= 336

-- *****
--
-- Extension constants
--
-- *****

maxPrivateExtensions      INTEGER ::= 65535
maxProtocolExtensions     INTEGER ::= 65535
maxProtocolIEs           INTEGER ::= 65535

-- *****
--
-- Lists
--
-- *****

```

```

maxSF INTEGER ::= 10
maxnoofDLCodes INTEGER ::= 10
maxnoofRLs INTEGER ::= 10
maxnoofDPCHs INTEGER ::= 10
maxnoofSCCPCHs INTEGER ::= 10
maxnoofPRACHs INTEGER ::= 10
maxnoofDCHs INTEGER ::= 10
maxnoofDSCHs INTEGER ::= 10
maxnoofFACHs INTEGER ::= 10
maxnoofCCTrCHs INTEGER ::= 10
maxnoofPCHs INTEGER ::= 10
maxnoofPUCSHs INTEGER ::= 10
maxnoofTFCs INTEGER ::= 10
maxnoofUSCHs INTEGER ::= 10
maxUCIDinNodeB INTEGER ::= 10
maxCellinNodeB INTEGER ::= 10
maxCCPinNodeB INTEGER ::= 10
maxCTF-1 INTEGER ::= 10
maxLocalCellinNodeB INTEGER ::= 10
maxPCHinNodeB INTEGER ::= 10
maxRACHCell INTEGER ::= 10
maxnoofFACHCell INTEGER ::= 10
maxPCHCell INTEGER ::= 10
maxUSCHCell INTEGER ::= 10
maxAICHCell INTEGER ::= 10
maxMIBSEG INTEGER ::= 10
maxSIBSEG INTEGER ::= 10
maxnoofFDDNeighbours INTEGER ::= 10
maxnoofTDDNeighbours INTEGER ::= 10
maxTFcount INTEGER ::= 10
maxnoofTFCs INTEGER ::= 10
maxFACHCell INTEGER ::= 10
maxnoCCTrCH INTEGER ::= 10
maxnoCCTrCHs INTEGER ::= 10
maxnoofCCTrCH INTEGER ::= 10
maxnoofDPCH INTEGER ::= 10
maxnoofPUSHs INTEGER ::= 10
maxnoofRL-1 INTEGER ::= 10
maxnoofRL-2 INTEGER ::= 10
maxRM INTEGER ::= 10

```

```

-- *****
--
-- IEs
--
-- *****

```

```

id-AICH-Information-ResourceStatIndItem INTEGER ::= 0
id-AICH-ParametersList-CTCHreconf-Req-FDD INTEGER ::= 1
id-AICH-ParametersListItem INTEGER ::= 2
id-AllowedSlotFormatInformationListItem-CTCHreconf-Req-FDD INTEGER ::= 3
id-AllowedSlotFormatInformationListItem-CTCHsetup-Req-FDD INTEGER ::= 4

```

id-All-RLItem-PC	INTEGER ::= 2
id-All-RLItem-Rep	INTEGER ::= 3
id-All-RLItem-resp	INTEGER ::= 4
id-BCCH-ModificationTime	INTEGER ::= 5
id-BCH-InformationItem-Audit-Res	INTEGER ::= 6
id-BCH-InformationItem-ResourceStatInd	INTEGER ::= 7
id-BlockingPriorityIndicator	INTEGER ::= 85
id-C-ID	INTEGER ::= 9
id-CCTrCH-ParametersList	INTEGER ::= 106
id-CCTrCH-ParametersListItem	INTEGER ::= 117
id-CFN	INTEGER ::= 128
id-CRNC-Communication-Context-ID	INTEGER ::= 13
id-CRNC-CommunicationContextID	INTEGER ::= 149
id-CRNCCommunicationContextID	INTEGER ::= 10
id-Case1-Item-CellSetupReqTDD	INTEGER ::= 15
id-Case2andCase3-Item-CellSetupReqTDD	INTEGER ::= 16
id-Case3-Item-CellSetupReqTDD	INTEGER ::= 17
id-Cause	INTEGER ::= 181
id-Cell-Information-ResourceStatIndItem	INTEGER ::= 192
id-Cell-InformationItem-Audit-Res	INTEGER ::= 2013
id-Cell-InformationList-Audit-Res	INTEGER ::= 2114
id-CellItem-CMmeasureInitReq	INTEGER ::= 22
id-CellItem-CommonMeasurement-Rep	INTEGER ::= 23
id-CellItem-CommonMeasurement-Res	INTEGER ::= 24
id-Cell-Parameter-ID	INTEGER ::= 2515
id-Cell-ParametersItem	INTEGER ::= 16
id-Cell-ParametersList	INTEGER ::= 17
id-Cell-ParametersItem-Audit-Req	INTEGER ::= 26
id-Cell-ParametersList-Audit-Req	INTEGER ::= 27
id-CellParameter	INTEGER ::= 18
id-CombiningItem-RL-Add-FailFDD	INTEGER ::= 28
id-CombiningItem-RL-Add-ResFDD	INTEGER ::= 29
id-CombiningItem-RL-Add-ResTDD	INTEGER ::= 30
id-CombiningItem-RL-SetupFailFDD	INTEGER ::= 31
id-CombiningItem-RL-setupResFDD	INTEGER ::= 32
id-CommonMeasurementObjectType	INTEGER ::= 19
id-CommonMeasurementObjectType-CMeasureInitReq	INTEGER ::= 34
id-CommonMeasurementObjectType-Rep	INTEGER ::= 35
id-CommonMeasurementObjectType-Res	INTEGER ::= 36
id-CommonMeasurementType	INTEGER ::= 3720
id-CommonPhysicalChannelID	INTEGER ::= 3821
id-CommonPhysicalChannelType-CTCHsetup-Req-FDD	INTEGER ::= 3922
id-CommonPhysicalChannelType-CTCHsetupReqTDD	INTEGER ::= 40
id-CommonPhysicalChannelType-CTCHsetup-Response	INTEGER ::= 4123
id-CommonPhysicalChannelsToBeReconfigured-CTCHreconfReqTDD	INTEGER ::= 42
id-CommonTransportChannelsToBeReconfigured-CTCHreconfReqTDD	INTEGER ::= 43
id-CommonTransportChannelType-CTCHsetup-ReqTDD	INTEGER ::= 44
id-CommonTransportChannelType-CTCHsetup-Resp	INTEGER ::= 45
id-CommunicationControlPort-InformationItem-Audit-Res	INTEGER ::= 4624
id-CommunicationControlPort-InformationList-Audit-Res	INTEGER ::= 47
id-CommunicationControlPortID	INTEGER ::= 4825
id-CommunicationControlPortInformation-ResourceStatIndItem	INTEGER ::= 4926
id-CommunicationControlPortInformationList	INTEGER ::= 27

id-CompressedModeMethod	INTEGER ::= 5028
id-ConfigurationGenerationID	INTEGER ::= 5129
id-CriticalityDiagnostic	INTEGER ::= 52
id-DCH-Add-RL-ReconfPrepFDDItem	INTEGER ::= 30
id-DCH-Add-RL-ReconfPrepTDDItem	INTEGER ::= 5331
id-DCH-Add-RL-ReconfReadyItem	INTEGER ::= 5432
id-DCH-Add-RL-ReconfReqFDDItem	INTEGER ::= 5533
id-DCH-Add-RL-ReconfReqTDDItem	INTEGER ::= 34
id-DCH-AddItem-RL-ReconfResp	INTEGER ::= 5635
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 5736
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 5837
id-DCH-AddList-RL-ReconfReadyItem	INTEGER ::= 59
id-DCH-AddList-RL-ReconfReqFDD	INTEGER ::= 6038
id-DCH-AddList-RL-ReconfReqFDDItem	INTEGER ::= 61
id-DCH-AddList-RL-ReconfReqTDD	INTEGER ::= 6239
id-DCH-AddList-RL-ReconfRespItem	INTEGER ::= 63
id-DCH-Delete-RL-ReconfPrepFDDItem	INTEGER ::= 40
id-DCH-Delete-RL-ReconfPrepTDDItem	INTEGER ::= 41
id-DCH-Delete-RL-ReconfReqFDDItem	INTEGER ::= 42
id-DCH-Delete-RL-ReconfReqTDDItem	INTEGER ::= 6443
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 6544
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 6645
id-DCH-DeleteList-RL-ReconfReqFDD	INTEGER ::= 6746
id-DCH-DeleteList-RL-ReconfReqFDDItem	INTEGER ::= 68
id-DCH-DeleteList-RL-ReconfReqTDD	INTEGER ::= 6947
id-DCH-Information-RL-SetupReqFDDItem	INTEGER ::= 7048
id-DCH-Information-RL-SetupReqTDDItem	INTEGER ::= 49
id-DCH-InformationList-RL-SetupReqFDD	INTEGER ::= 7150
id-DCH-InformationList-RL-SetupReq-FDDItem	INTEGER ::= 72
id-DCH-InformationList-RL-SetupReqTDD	INTEGER ::= 7351
id-DCH-InformationResponse-RL-SetupFailFDDItem	INTEGER ::= 52
id-DCH-InformationResponse-RL-setupResTDDItem	INTEGER ::= 53
id-DCH-InformationResponseListIE-RL-setupResTDD	INTEGER ::= 74
id-DCH-InformationResponseItem	INTEGER ::= 54
id-DCH-Modify-RL-ReconfPrepFDDItem	INTEGER ::= 55
id-DCH-Modify-RL-ReconfPrepTDDItem	INTEGER ::= 56
id-DCH-Modify-RL-ReconfReadyItem	INTEGER ::= 7557
id-DCH-Modify-RL-ReconfReqFDDItem	INTEGER ::= 7658
id-DCH-Modify-RL-ReconfReqTDDItem	INTEGER ::= 59
id-DCH-ModifyItem-RL-ReconfResp	INTEGER ::= 7760
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 7861
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 7962
id-DCH-ModifyList-RL-ReconfReadyItem	INTEGER ::= 80
id-DCH-ModifyList-RL-ReconfReqFDD	INTEGER ::= 8163
id-DCH-ModifyList-RL-ReconfReqFDDItem	INTEGER ::= 82
id-DCH-ModifyList-RL-ReconfReqTDD	INTEGER ::= 8364
id-DCH-ModifyList-RL-ReconfRespItem	INTEGER ::= 84
id-DL-CCTrCH-Information-RL-ReconfPrepTDDItem	INTEGER ::= 65
id-DL-CCTrCH-Information-RL-ReconfReqTDDItem	INTEGER ::= 8566
id-DL-CCTrCH-Information-RL-SetupReqTDDItem	INTEGER ::= 67
id-DL-CCTrCH-InformationItem	INTEGER ::= 8668
id-DL-CCTrCH-InformationList-RL-Add-ReqTDD	INTEGER ::= 87
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 8869

id-DL-CCTrCH-InformationList-RL-ReconfReqTDD	INTEGER ::= 8970
id-DL-CCTrCH-InformationList-RL-SetupReqTDD	INTEGER ::= 9071
id-DL-CCTrCH-InformationItem-RL-SetupReqTDD	INTEGER ::= 91
id-DL-CCTrCHInformationItem	INTEGER ::= 9272
id-DL-CCTrCHInformationList	INTEGER ::= 9373
id-DL-CodeInformation	INTEGER ::= 74
id-DL-CodeInformation-RL-ReconfPrepFDDItem	INTEGER ::= 75
id-DL-CodeInformation-RL-SetupReqFDDItem	INTEGER ::= 76
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 9477
id-DL-DPCH-InformationList-RL-ReconfPrepTDDItem	INTEGER ::= 9578
id-DL-DPCH-Information-RL-SetupReqTDDItem	INTEGER ::= 79
id-DL-DPCH-InformationItem	INTEGER ::= 9680
id-DL-DPCH-InformationList	INTEGER ::= 97
id-DL-DPCH-InformationItem-RL-ReconfReqFDD	INTEGER ::= 9881
id-DL-DPCH-InformationItem-RL-SetupReqFDD	INTEGER ::= 9982
id-DL-DPCH-InformationItem-RL-SetupReqTDD	INTEGER ::= 100
id-DL-DPCH-InformationList-RL-Add-ReqTDDItem	INTEGER ::= 101
id-DL-DPCH-InformationList-RL-SetupReqTDD	INTEGER ::= 102
id-DL-FrameType	INTEGER ::= 1083
id-DL-ReferencePowerInformationList-PCItemItem	INTEGER ::= 1084
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 1085
id-DSCH-AddItem-RL-ReconfReqFDD	INTEGER ::= 1086
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 1087
id-DSCH-DeleteItem-RL-ReconfReqFDD	INTEGER ::= 1088
id-DSCH-ID	INTEGER ::= 1089
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 110
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 111
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 112
id-DSCH-Information-RL-SetupReqFDDItem	INTEGER ::= 11390
id-DSCH-InformationList-RL-SetupReqFDD	INTEGER ::= 11491
id-DSCH-InformationList-RL-SetupReqTDD	INTEGER ::= 115
id-DSCH-InformationList-RL-SetupReq-FDDItem	INTEGER ::= 116
id-DSCH-InformationResponseList-RL-SetupFailFDDItem	INTEGER ::= 117
id-DSCH-InformationResponseList-RL-Add-RespTDDItem	INTEGER ::= 118
id-DSCH-InformationResponseList-RL-setupResFDDItem	INTEGER ::= 119
id-DSCH-InformationResponseListIE-RL-setupResTDD	INTEGER ::= 120
id-DSCH-InformationResponse-RL-SetupFailFDDItem	INTEGER ::= 12192
id-DSCH-InformationResponse-RL-setupResFDDItem	INTEGER ::= 93
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 12294
id-DSCH-ModifyList-RL-ReconfReadyItem	INTEGER ::= 123
id-DSCH-ModifyList-ReconfRespItem	INTEGER ::= 124
id-DSCH-ModifyItem-RL-ReconfReqFDD	INTEGER ::= 12595
id-DSCH-ModifyList-RL-ReconfReqTDD	INTEGER ::= 126
id-DSCH-AddList-RL-ReconfReqTDD	INTEGER ::= 127
id-DSCH-DeleteList-RL-ReconfReqTDD	INTEGER ::= 128
id-DSCH-SetupList-RL-ReconfReadyItem	INTEGER ::= 129
id-DSCH-SetupList-RL-ReconfRespItem	INTEGER ::= 130
id-DSCH-TFCS	INTEGER ::= 131
id-DedicatedMeasurementObjectType	INTEGER ::= 13296
id-DedicatedMeasurementObjectType-Req	INTEGER ::= 133
id-DedicatedMeasurementObjectType-Rep	INTEGER ::= 134
id-DedicatedMeasurementObjectType-Resp	INTEGER ::= 135
id-DedicatedMeasurementType	INTEGER ::= 13697

id-FACH-Information-ResourceStatIndItem	INTEGER ::= 13798
id-FACH-InformationItem-Audit-Res	INTEGER ::= 13899
id-FACH-ListItem	INTEGER ::= 139+00
id-FACH-ParametersList-CTCHreconf-Req-FDD	INTEGER ::= 14001
id-FACH-ParametersList-CTCHreconf-Req-TDD	INTEGER ::= 14102
id-FACH-ParametersList-CTCHSetupReqTDD	INTEGER ::= 142
id-FACH-ParametersList-CTCHSetupReqFDDItem	INTEGER ::=
id-FACH-ParametersList-CTCHsetup-RespItem	INTEGER ::= 143
id-FACH-ParametersListItem-CTCHreconf-Req-FDD	INTEGER ::= 103
id-FACH-ParametersListItem-CTCHreconf-Req-TDD	INTEGER ::= 14404
id-FACH-ParametersListItem-CTCHsetup-Req-FDD	INTEGER ::= 14505
id-FACH-ParametersListItem-CTCHsetup-Response	INTEGER ::= 106
id-CapStartingSlotNumber	INTEGER ::= 107
id-IndicationType	INTEGER ::= 14608
id-IndicationType-ResourceStatInd	INTEGER ::= 147
id-IndividualRLItem-PC	INTEGER ::= 148
id-Local-Cell-Information-ResourceStatIndItem	INTEGER ::= 14909
id-Local-Cell-Information-ResourceStatIndItem	INTEGER ::= 150+0
id-LocalCell-ID	INTEGER ::= 151+1
id-LocalCell-InformationItem-Audit-Res	INTEGER ::= 152+2
id-LocalCell-InformationList-Audit-Res	INTEGER ::= 153+3
id-MIB-SegmentInformationItem	INTEGER ::= 154+4
id-MIB-SegmentInformationList	INTEGER ::= 155+5
id-MIB-SIB-InformationList-SystemInfoUpdate	INTEGER ::= 156
id-MIB-SIB-InformationList-SystemInfoUpdateItem	INTEGER ::= 157
id-MaximumTransmissionPower	INTEGER ::= 158+6
id-MeasuredCellInfo	INTEGER ::= 117
id-MeasurementCharacteristics	INTEGER ::= 159+8
id-MeasurementID	INTEGER ::= 160+9
id-MeasurementType	INTEGER ::= 161+0
id-NeighbouringFDD-Cell-InformationItem	INTEGER ::= 162+1
id-NeighbouringTDD-Cell-InformationItem	INTEGER ::= 163+2
id-NodeB-CommunicationContextID	INTEGER ::= 164+3
id-No-Delition-SystemInfoUpdateItem	INTEGER ::= 165
id-No-FailureItem-ResourceStatInd	INTEGER ::= 166
id-Non-CombiningItem-RL-Add-FailFDD	INTEGER ::= 167
id-Non-CombiningItem-RL-Add-ResFDD	INTEGER ::= 168
id-Non-CombiningItem-RL-Add-ResTDD	INTEGER ::= 169
id-Non-CombiningItem-RL-SetupFailFDD	INTEGER ::= 170
id-Non-CombiningItem-RL-setupResFDD	INTEGER ::= 171
id-PCCPCH-Information-CellreconfReq	INTEGER ::= 171
id-PCCPCH-Information-CellsetupReqTDD	INTEGER ::= 172+24
id-P-CCPCH-InformationItem-Audit-Res	INTEGER ::= 173
id-P-CCPCH-InformationItem-ResourceStatInd	INTEGER ::= 174
id-PCH-Information-ResourceStatIndItem	INTEGER ::= 175+25
id-PCH-InformationItem-Audit-Res	INTEGER ::= 176+26
id-PCH-ListItem	INTEGER ::= 177+27
id-PCH-ParameterItem-CTCHReconfReqTDD	INTEGER ::= 178
id-PCH-Parameters-CTCHreconf-Req-FDD	INTEGER ::= 179+28
id-PCH-Parameters-CTCHsetup-RespItem	INTEGER ::= 180
id-PCH-ParametersItem-CTCHsetup-Req-FDD	INTEGER ::= 181
id-PCH-ParametersList	INTEGER ::= 182+29
id-PCH-ParametersList-CTCHSetupReqTDD	INTEGER ::= 183

id-PCH-ParametersListItem	INTEGER ::= 18430
id-P-CPICH-InformationItem-Audit-Res	INTEGER ::= 185
id-P-CPICH-InformationItem-ResourceStatInd	INTEGER ::= 186
id-PICH-InformationItem-Audit-Res	INTEGER ::= 187
id-PICH-InformationItem-ResourceStatInd	INTEGER ::= 188
id-PICH-Parameters-CTCHreconf-Req-FDD	INTEGER ::= 18931
id-PICHParametersItem-CTCHreconfReqTDD	INTEGER ::= 190
id-PRACH-InformationItem-ResourceStatInd	INTEGER ::= 191
id-PRACH-InformationItem-Audit-Res	INTEGER ::= 192
id-PRACH-parametersItem-CTCHsetup-Req-FDD	INTEGER ::= 193
id-PRACH-ParametersList-CTCHreconf-Req-FDD	INTEGER ::= 19432
id-PRACH-parameters-Item-CTCHsetupReqTDD	INTEGER ::= 195
id-PRACH-ParametersListItem	INTEGER ::= 133
id-PSCH-Information-CellreconfReq	INTEGER ::= 196
id-PSCH-Information-CellsetupReqTDD-	INTEGER ::= 19734
id-PSCH-InformationItem-Audit-Res	INTEGER ::= 198
id-PSCH-InformationItem-ResourceStatInd	INTEGER ::= 199
id-PSCHandPCPCH-Information	INTEGER ::= 135
id-PUSCH-ListItem	INTEGER ::= 200136
id-PatternDuration	INTEGER ::= 137
id-PowerControlMode	INTEGER ::= 201138
id-PowerResumeMode	INTEGER ::= 202139
id-PrimaryCCPCH-Information-Cellreconf-Req	INTEGER ::= 203
id-PrimaryCCPCH-Information-Cellsetup-Req-	INTEGER ::= 204140
id-PrimaryCPICH-Information-Cellreconf-Req	INTEGER ::= 205
id-PrimaryCPICH-Information-Cellsetup-Req	INTEGER ::= 206141
id-PrimarySCH-Information-Cellreconf-Req	INTEGER ::= 207
id-PrimarySCH-Information-Cellsetup-Req	INTEGER ::= 208142
id-PrimaryScramblingCode	INTEGER ::= 209143
id-ProcedureScopeType-PC	INTEGER ::= 210144
id-P-SCH-InformationItem-Audit-Res	INTEGER ::= 211
id-P-SCH-InformationItem-ResourceStatInd	INTEGER ::= 212
id-RACH-Information-ResourceStatIndItem	INTEGER ::= 213145
id-RACH-InformationItem-Audit-Res	INTEGER ::= 214146
id-AICH-InformationItem-Audit-Res	INTEGER ::= 215
id-RACHItem-CMmeasureInitReq	INTEGER ::= 216
id-RACHItem-CommonMeasurement-Rep	INTEGER ::= 217
id-RACHItem-CommonMeasurement-Res	INTEGER ::= 218
id-RACH-Parameters-CTCHsetup-RespItem	INTEGER ::= 219
id-RACH-ParameterList-CTCHSetupReqTDD	INTEGER ::= 220
id-RACH-ParametersItem-CTCHsetup-Req-FDD	INTEGER ::= 221
id-RL-ID	INTEGER ::= 222147
id-RL-Information	INTEGER ::= 223148
id-RL-Information-DMeasureReportItem	INTEGER ::= 224149
id-RL-Information-DMeasureRequestItem	INTEGER ::= 225150
id-RL-Information-DMeasureResponseItem	INTEGER ::= 226151
id-RL-Information-RL-Add-ReqTDD	INTEGER ::= 227
id-RL-Information-RL-Add-RespTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepFDDItem	INTEGER ::= 229152
id-RL-Information-RL-SetupReqFDDItem	INTEGER ::= 230153
id-RL-Information-RL-setupResTDD	INTEGER ::= 231
id-RL-InformationItem	INTEGER ::= 154
id-RL-InformationItem-RL-SetupReqTDD	INTEGER ::= 232155

<u>id-RL-InformationList</u>	INTEGER ::= 156	
id-RL-InformationList-RL-ReconfReqFDD	INTEGER ::= 233	157
id-RL-InformationList-RL-SetupReqFDD	INTEGER ::= 234	158
id-RL-InformationResponse-RL-setupResFDDItem	INTEGER ::= 235	159
id-RL-InformationResponseItem-RL-ReconfResp	INTEGER ::= 236	160
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 237	161
id-RL-InformationResponseList-RL-ReconfReadyItem	INTEGER ::= 238	162
id-RL-InformationResponseList-RL-ReconfResp	INTEGER ::= 239	163
id-RL-InformationResponseList-RL-setupResFDD	INTEGER ::= 240	164
id-RL-InformationResponseList-RL-setupResTDD	INTEGER ::= 241	165
<u>id-RLItem-DMeasureReq</u>	INTEGER ::= 242	
<u>id-RLItem-Rep</u>	INTEGER ::= 243	
<u>id-RLItem-Resp</u>	INTEGER ::= 244	
id-RL-ReconfigurationFailure-RL-ReconfFailItem	INTEGER ::= 245	166
id-RL-ReconfigurationFailureList-RL-ReconfFail	INTEGER ::= 246	167
id-RL-ResponseInformation	INTEGER ::= 247	168
id-RL-ResponseInformationItem-RL-Add-ResFDDItem	INTEGER ::= 248	169
id-RL-ResponseInformationList-RL-Add-ResFDD	INTEGER ::= 249	170
<u>id-RL-informationItem</u>	INTEGER ::= 171	
<u>id-RL-informationList</u>	INTEGER ::= 172	
<u>id-RL-InformationList-DMeasureReqItem</u>	INTEGER ::= 250	
<u>id-RL-InformationList-RL-FailInd</u>	INTEGER ::= 251	
id-RL-InformationList-RL-FailIndItem	INTEGER ::= 252	
id-RL-InformationList-RL-Add-ReqFDD	INTEGER ::= 253	
id-RL-InformationList-RL-Add-ReqFDDItem	INTEGER ::= 254	
id-RL-informationList-RL-Del-Req	INTEGER ::= 255	
id-RL-informationList-RL-Del-ReqItem	INTEGER ::= 256	
id-RL-InformationList-RL-RestoreInd	INTEGER ::= 257	
id-RL-InformationList-RL-RestoreIndItem	INTEGER ::= 258	
id-RadioLinkInformation-RL-ReconfPrepFDDItem	INTEGER ::= 259	173
id-RadioLinkInformation-RL-ReconfPrepTDD	INTEGER ::= 260	174
id-RadioLinkInformation-RL-ReconfReqTDD	INTEGER ::= 261	175
id-RadioLinkInformationList-RL-ReconfPrepFDD	INTEGER ::= 262	176
id-ReportCharacteristics	INTEGER ::= 263	177
id-SFN	INTEGER ::= 264	178
id-SIB-SegmentInformationItem	INTEGER ::= 265	179
id-SIB-SegmentInformationList	INTEGER ::= 266	180
<u>id-SN</u>	INTEGER ::= 267	
<u>id-S-CCPCH-InformationItem-Audit-Res</u>	INTEGER ::= 268	
<u>id-S-CCPCH-InformationItem-ResourceStatInd</u>	INTEGER ::= 269	
<u>id-S-CPICH-InformationItem-Audit-Res</u>	INTEGER ::= 270	
<u>id-S-CPICH-InformationItem-ResourceStatInd</u>	INTEGER ::= 271	
<u>id-SCH-InformationItem-Audit-Res</u>	INTEGER ::= 272	
<u>id-SCH-InformationItem-ResourceStatInd</u>	INTEGER ::= 273	
id-ScramblingCodeChange	INTEGER ::= 274	181
id-SecondaryCCPCHListItem-CTCHReconfReqTDD	INTEGER ::= 275	
id-SecondaryCCPCHListItem-CTCHsetupReqTDD	INTEGER ::= 276	
id-Secondary-CCPCHListItem	INTEGER ::= 277	182
<u>id-Secondary-CCPCH-parametersItem-CTCHsetup-Req-FDD</u>	INTEGER ::= 278	
<u>id-Secondary-CCPCH-parametersItem-CTCHsetupReqTDD</u>	INTEGER ::= 279	
<u>id-Secondary-CCPCH-parametersIE-CTCHReconfReqTDD</u>	INTEGER ::= 280	
<u>id-SecondaryCPICH-Information-Cellreconf-Req</u>	INTEGER ::= 281	
<u>id-SecondaryCPICH-Information-Cellsetup-Req</u>	INTEGER ::= 282	183

<u>id-SecondarySCH-Information-Cellreconf-Req</u>	INTEGER ::= 283
<u>id-SecondarySCH-Information-Cellsetup-Req</u>	INTEGER ::= 284184
<u>id-SegmentInformationList-SystemInfoUpdateItem</u>	INTEGER ::= 285
<u>id-ServiceImpactingItem-ResourceStatInd</u>	INTEGER ::= 286
<u>id-ShutdownTimer</u>	INTEGER ::= 287185
<u>id-S-SCH-InformationItem-Audit-Res</u>	INTEGER ::= 288
<u>id-S-SCH-InformationItem-ResourceStatInd</u>	INTEGER ::= 289
<u>id-Successful-RL-InformationResponse-RL-SetupFailFDDItem</u>	INTEGER ::= 290186
<u>id-Successful-RL-InformationResponseItem</u>	INTEGER ::= 291187
<u>id-Successful-RL-InformationResponseList</u>	INTEGER ::= 292188
<u>id-Successful-RL-InformationResponseList-RL-Add-FailFDD</u>	INTEGER ::= 293
<u>id-Successful-RL-InformationResponse-RL-Add-FailFDDItem</u>	INTEGER ::= 294
<u>id-Successful-RL-InformationResponseList-RL-SetupFailFDD</u>	INTEGER ::= 295189
<u>id-SynchronisationMethod</u>	INTEGER ::= 296190
<u>id-SyncCase</u>	INTEGER ::= 297
<u>id-T-Cell</u>	INTEGER ::= 298191
<u>id-TGP1</u>	INTEGER ::= 299
<u>id-TGP2</u>	INTEGER ::= 300
<u>id-TGL</u>	INTEGER ::= 301
<u>id-TGD</u>	INTEGER ::= 302
<u>id-TDDChipOffset</u>	INTEGER ::= 192
<u>id-TimeSlotConfigurationItem</u>	INTEGER ::= 303193
<u>id-TimeSlotConfigurationList-CellreconfReq</u>	INTEGER ::= 304
<u>id-TimeSlotConfigurationList-CellsetupReqTDD</u>	INTEGER ::= 305194
<u>id-TransmissionDiversityApplied</u>	INTEGER ::= 306
<u>id-TransmissionGapDistance</u>	INTEGER ::= 195
<u>id-TransmissionGapPeriod</u>	INTEGER ::= 196
<u>id-TransmitGapLength</u>	INTEGER ::= 197
<u>id-TransmitGapPositionMode</u>	INTEGER ::= 307198
<u>id-UARFCN</u>	INTEGER ::= 308199
<u>id-UC-ID</u>	INTEGER ::= 200
<u>id-UL-CCTrCH-Information-RL-ReconfPrepTDDItem</u>	INTEGER ::= 309201
<u>id-UL-CCTrCH-Information-RL-ReconfReqTDDItem</u>	INTEGER ::= 310202
<u>id-UL-CCTrCH-Information-RL-SetupReqTDDItem</u>	INTEGER ::= 203
<u>id-UL-CCTrCH-InformationItemIE</u>	INTEGER ::= 311204
<u>id-UL-CCTrCH-InformationItem-RL-SetupReqTDD</u>	INTEGER ::= 312
<u>id-UL-CCTrCH-InformationList-RL-Add-ReqTDD</u>	INTEGER ::= 313
<u>id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD</u>	INTEGER ::= 314205
<u>id-UL-CCTrCH-InformationList-RL-ReconfReqTDD</u>	INTEGER ::= 315206
<u>id-UL-CCTrCH-InformationList-RL-SetupReqTDD</u>	INTEGER ::= 316207
<u>id-UL-CCTrCHInformation</u>	INTEGER ::= 208
<u>id-UL-CCTrCHInformationList</u>	INTEGER ::= 209
<u>id-UL-DeltaEb-No</u>	INTEGER ::= 318
<u>id-UL-DeltaEb-NoAfter</u>	INTEGER ::= 319
<u>id-UL-DL-CompressedModeSetletion</u>	INTEGER ::= 320
<u>id-UL-DPCH-Information-RL-ReconfPrepFDD</u>	INTEGER ::= 321210
<u>id-UL-DPCH-InformationList-RL-ReconfPrepTDDItem</u>	INTEGER ::= 322211
<u>id-UL-DPCH-Information-RL-SetupReqTDDItem</u>	INTEGER ::= 212
<u>id-UL-DPCH-InformationItem-RL-ReconfReqFDD</u>	INTEGER ::= 323213
<u>id-UL-DPCH-InformationItem-RL-SetupReqFDD</u>	INTEGER ::= 324214
<u>id-UL-DPCH-InformationItemIE</u>	INTEGER ::= 325215
<u>id-UL-DPCH-InformationItem-RL-SetupReqTDD</u>	INTEGER ::= 326
<u>id-UL-DPCH-InformationList</u>	INTEGER ::= 327

id-UL-DPCH-InformationList-RL-Add-ReqTDDItem INTEGER ::= 328
id-UL-DPCH-InformationList-RL-SetupReqTDD INTEGER ::= 329
id-USCH-Information-ResourceStatIndItem INTEGER ::= ~~330~~216
id-USCH-InformationItem INTEGER ::= ~~331~~217
id-USCH-Information-ModifyList-RL-ReconfPrepTDD INTEGER ::= 332
id-USCH-Information-AddList-RL-ReconfPrepTDD INTEGER ::= 333
id-USCH-Information-DeleteList-RL-ReconfPrepTDD INTEGER ::= 334
id-USCH-InformationList-RL-SetupReqTDD INTEGER ::= 335
id-USCH-InformationResponseList-RL-SetupReqTDD INTEGER ::= 336
id-USCH-InformationResponseList-RL-Add-RespTDDItem INTEGER ::= 337
id-USCH-ListItem-CTCHsetup-Req-TDD INTEGER ::= ~~338~~218
id-USCH-ModifyList-RL-ReconfReqTDD INTEGER ::= 339
id-USCH-AddList-RL-ReconfReqTDD INTEGER ::= 340
id-USCH-DeleteList-RL-ReconfReqTDD INTEGER ::= 341
id-USCH-ModifyList-RL-ReconfReadyItem INTEGER ::= 342
id-USCH-ModifyList-RL-ReconfRespItem INTEGER ::= 343
id-USCH-SetupList-RL-ReconfReadyItem INTEGER ::= 344
id-USCH-SetupList-RL-ReconfRespItem INTEGER ::= 345
id-Unsuccessful-RL-InformationResponse INTEGER ::= ~~346~~219
id-Unsuccessful-RL-InformationResponse-RL-SetupFailFDDItem INTEGER ::= ~~347~~220
id-Unsuccessful-RL-InformationResponseItem INTEGER ::= ~~348~~221
id-Unsuccessful-RL-InformationResponseItem-RL-SetupFailTDD INTEGER ::= ~~349~~222
id-Unsuccessful-RL-InformationResponseList INTEGER ::= ~~350~~223
id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDD INTEGER ::= 351
id-Unsuccessful-RL-InformationResponseList-RL-Add-FailFDDItem INTEGER ::= 352
id-Unsuccessful-RL-InformationResponseList-RL-SetupFailFDD INTEGER ::= ~~353~~224

END

affected:

Other GSM core specifications
MS test specifications
BSS test specifications
O&M specifications

→ List of CRs:
→ List of CRs:
→ List of CRs:
→ List of CRs:

Other comments:

--

10 Handling of unknown, unforeseen and erroneous protocol data

10.1 General

Protocol Error cases can be divided into two-three classes:

- Transfer Syntax ~~error~~Error
- Abstract Syntax ~~error~~Error
- Logical Error

Protocol errors can occur in the following functions within a receiving node:

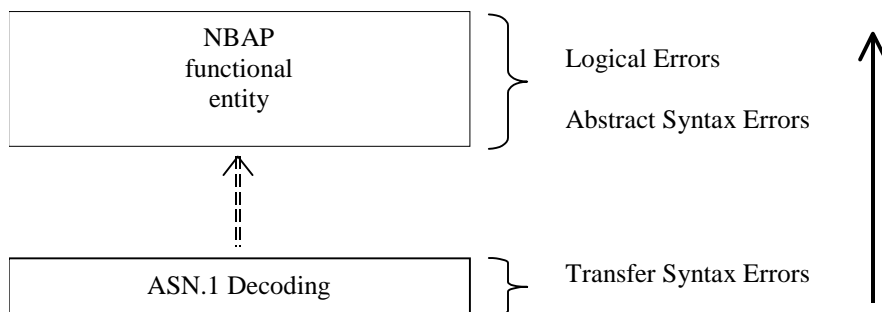


Figure X: Protocol Errors in NBAP.

10.2 Transfer Syntax Error

A Transfer Syntax Error occurs when the receiver is not able to decode the received physical message ~~i.e. the transfer syntax cannot be opened~~. Transfer syntax errors are always detected in the process of ASN.1 decoding. If a Transfer Syntax Error occurs, the receiver should initiate Error Indication procedure with appropriate cause value for the Transfer Syntax protocol error.

Examples for Transfer Syntax Errors are:

- Violation of value ranges in ASN.1 definition of messages. e.g.: If an IE has a defined value range of 0 to 10 (ASN.1: INTEGER (0..10)), and 12 will be received, then this will be treated as a transfer syntax error.
- Violation in list element constraints. e.g.: If a list is defined as containing 1 to 10 elements, and 12 elements will be received, than this case will be handled as a transfer syntax error.
- Missing mandatory elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).
- Wrong order of elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).

10.3 Abstract Syntax Error

10.3.1 General

An Abstract Syntax Error occurs when the receiving functional NBAP entity receives IEs or IE groups that cannot be understood. The abstract syntax error also appears if the logical range of an IE is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message)

10.3.2 Definition of Criticality Information

In the NBAP messages there is criticality information set for individual IEs and/or sequences of IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in chapter 10.3.3. ~~An IE shall be regarded as not comprehended if the receiving node either cannot decode the IE or does not comprehend the function represented by the IE value. The case of the not comprehended IE is an Abstract Syntax Error.~~

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error act according to the Criticality Information for the IE/IE group ~~or sequences of IEs~~ due to which Abstract Syntax Error occurred in accordance with chapter 10.3.23.

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

- Reject IE
- Ignore IE and Notify Sender
- Ignore IE

10.3.23 Handling of the Criticality Information at Reception

10.3.23.1 Procedure Code

The receiving node shall treat the different types of criticality information of the *Procedure Code* according to the following:

Reject IE:

- If a message is received with a *Procedure Code* marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

Ignore IE and Notify Sender:

- If a message is received with a *Procedure Code* marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

Ignore IE:

- If a message is received with a *Procedure Code* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

10.3.23.2 IEs other than the Procedure Code

The receiving node shall treat the different types of criticality information of an IE/IE group other than the *Procedure Code* according to the following:

Reject IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall initiate the Error Indication procedure.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE that the receiving node does not comprehend*", the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- If a message *initiating* a procedure is received containing one or more IEs/[IE groups](#) marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall [ignore the content of the not comprehended IEs/IE groups](#), continue with the procedure [as if the not comprehended IEs/IE groups were not received \(except for the reporting\)](#) using [only](#) the understood IEs/[IE groups](#), and report [in the response message of the procedure](#) that one or more IEs/[IE groups](#) have been ignored ~~in the response message of the procedure~~.
- If a *response* message is received containing one or more IEs/[IE groups](#) marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the [content of the not comprehended IEs/IE groups](#) and initiate the Error Indication procedure.

Ignore IE:

- If a message *initiating* a procedure is received containing one or more IEs/[IE groups](#) marked with "Ignore IE" which the receiving node does not comprehend, the receiving node shall [ignore the content of the not comprehended IEs/IE groups and](#) continue with the procedure [as if the not comprehended IEs/IE groups were not received](#) using [only](#) the understood IEs/[IE groups](#).

10.4 Logical Error [Handling](#)

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed as defined by the class of the elementary procedure, irrespective of the criticality of the IEs/[IE groups](#) containing the erroneous values.

Class 1:

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a failure message, the failure message shall be sent with an appropriate cause value.

Typical cause values are:

- Protocol Causes:
 1. Semantic Error
 2. Message not compatible with receiver state

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a failure message, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

Where the logical error exists in a response message of a class 1 procedure, local error handling shall be initiated.

Class 2:

Where the logical error occurs in a message of a class 2 procedure, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

~~**Class 3:**~~
~~Where the logical error occurs in a request message of a class 3 procedure, and the procedure has a failure message, the failure message shall be sent with an appropriate cause value. Typical cause values are:~~

- ~~1. Semantic Error
 2. Message not compatible with receiver state~~

~~Where the logical error is contained in a request message of a class 3 procedure, and the procedure does not have a failure message, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.~~
~~Where the logical error exists in a response message of a class 3 procedure, local error handling shall be initiated.~~

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 048r2

Current Version: **3.0.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #7**
list expected approval meeting # here
↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: **RAN-WG3** **Date:** **March 1, 2000**

Subject: **Removal of Sync Case 3**

Work item:

Category: F Correction **Release:** Phase 2
(only one category shall be marked with an X) A Corresponds to a correction in an earlier release Release 96
B Addition of feature Release 97
C Functional modification of feature Release 98
D Editorial modification Release 99
Release 00

Reason for change: This document aligns TS 25.433 with the decision made at RAN1#11 and removes the Sync Case 3 for TDD related to Cell configuration. By this modification the previous defined transport channel SCH is removed and the Physical channel is renamed from PSCH to SCH.
When applicable, this document revises R3-000225 / CR2r1 to indicate the modifications compared to the editorial modifications made in CR2. Changes are marked in green.
CR048.R2:
In addition, this document redefines the definition of the PSCH to SCH in R3-000502 CR039. Updates that reflect the redefinition are marked with green in the Block Resources or Unblock Resource procedure description.

Clauses affected: 8.2.4.2, 8.2.5.2, 8.2.7.2, 8.2.12.2, 8.2.13.2, 9.1.16, 9.1.23.2, 9.1.26.2, 9.1.31, 9.2.3.10, 9.2.3.13, 9.3.3, 9.3.4, 9.3.7

Other specs affected: Other 3G core specifications → List of CRs: R1-000220, R3-000667, R3-000549
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments:

8.2.4 Block Resource

8.2.4.1 General

The Node B initiates this procedure to request the CRNC to prohibit the usage of the specified logical resources.

[The logical resource that can be blocked is cell.](#)

8.2.4.2 Successful Operation

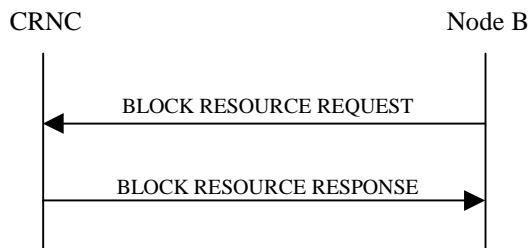


Figure 6: Block Resource procedure, Successful case

The procedure is initiated with a BLOCK RESOURCE REQUEST message sent from the Node B to the CRNC.


Upon reception of the BLOCK RESOURCE REQUEST message, the CRNC shall prohibit the use of the indicated logical resources according to the *Blocking Priority Indicator* IE.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates 'High Priority', the CRNC shall prohibit the use of the logical resources immediately.

The BLOCK RESOURCE REQUEST message shall include the *Shutdown Timer* IE when the *Blocking Priority Indicator* IE indicates 'Normal Priority'. The CRNC shall prohibit the use of the logical resources if the resources are idle or immediately upon expiry of the shutdown timer specified in the message. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates 'Low Priority', the CRNC shall prohibit the use of the logical resources when the resources become idle. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

~~[When the logical resource indicated is a cell, all associated physical channels and transport channels are blocked.](#)~~

If the resources are successfully blocked, the CRNC shall respond with a BLOCK RESOURCE RESPONSE message. Upon reception of the BLOCK RESOURCE RESPONSE message, the Node B ~~shall~~ may disable [TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, if present the Secondary CPICH(s)] and the Primary CCPCH. The other ~~consider~~ the logical resources [in the cell shall be considered as](#) blocked.

[Reconfiguration of logical resources and change of System Information can be done, even when the logical resources are blocked.](#)

Interactions with the Unblock Resource procedure:

If the UNBLOCK RESOURCE INDICATION message is received by the CRNC while a Block Resource procedure on the same logical resources is in progress, the CRNC shall cancel the Block Resource procedure and proceed with the Unblock Resource procedure.

If the BLOCK RESOURCE RESPONSE message or the BLOCK RESOURCE FAILURE message is received by the Node B after the Node B has initiated an Unblock Resource procedure on the same logical resources as the ongoing Block Resource procedure, the Node B shall ignore the response to the Block Resource procedure.

8.2.4.3 Unsuccessful Operation

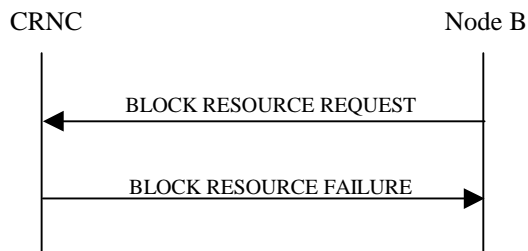


Figure 7: Block Resource procedure, Unsuccessful case

The CRNC may reject the request to block the logical resources, in which case the logical resources will remain unaffected and the CRNC shall respond to the Node B with the BLOCK RESOURCE FAILURE message. Upon reception of the BLOCK RESOURCE FAILURE message, the Node B shall leave the logical resources in the state that they were in prior to the start of the Block Resource procedure.

Typical cause values are as follows:

Protocol Cause

- Semantic error

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.2.4.4 Abnormal Conditions

-

8.2.5 Unblock Resource

8.2.5.1 General

The Node B initiates this procedure to indicate to the CRNC that logical resources are now unblocked.

[The logical resource that can be unblocked is cell.](#)

8.2.5.2 Successful Operation

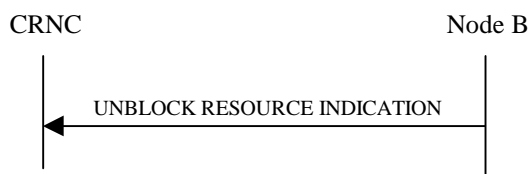


Figure 8: Unblock Resource procedure, Successful case

The procedure is initiated with an UNBLOCK RESOURCE INDICATION message sent from the Node B to the CRNC. [Node B shall enable \[TDD - !\[\]\(9a795c4c0c43d0827b424565265fc8e6_img.jpg\)SCH\], \[FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, the Secondary CPICH\(s\) \(if present\)\] and the Primary CCPCH that had been disabled due to the preceding Block](#)

[Resource procedure before sending the UNBLOCK RESOURCE INDICATION message](#). Upon reception of the UNBLOCK RESOURCE INDICATION message, the CRNC may permit the use of the logical resources.

When the logical resource indicated is a-cell, all associated physical channels and transport channels are unblocked.

8.2.5.3 Abnormal Conditions

-

8.2.7 Audit

8.2.7.1 General

This procedure is executed by the CRNC to perform an audit of the configuration and status of the logical resources in the Node B. Additionally, the audit may cause the CRNC and Node B to re-sync to the logical resources known by the CRNC and to the status information from the Node B.

8.2.7.2 Successful Operation

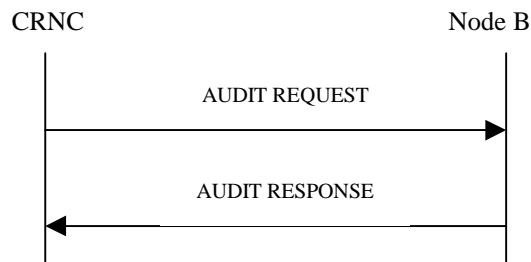


Figure 140: Audit procedure, Successful Operation case

The procedure is initiated with an AUDIT REQUEST message sent from the CRNC to the Node B. The configuration returned by the ~~Node B~~ Node B in the AUDIT RESPONSE shall be the configuration existing upon reception of the AUDIT REQUEST. Upon reception by the Node B, with each pair of *C-ID IE Configuration Generation ID IE* that is present in the message, the Node B compares the stored Configuration Generation ID for the corresponding cell.

For each cell where the *Configuration Generation ID IE* value does not match the stored Configuration Generation ID value, the Node B shall not take any action.

For each cell where the *Configuration Generation ID IE* value matches the stored Configuration Generation ID value, the Node B shall include the *Cell Information IE* group for that cell in the AUDIT RESPONSE message.

The following condition applies to the [\[FDD - Primary SCH Information IE group, Secondary SCH Information IE group\]](#)/[\[TDD - SCH Information IE group, PSCH Information IE group\]](#), [Primary CCPCH Information IE group, Secondary CCPCH Information IE group, \[FDD - Primary CPICH Information IE group, Secondary CPICH Information IE group\]](#), [BCH Information IE group, PCH Information IE group, PICH Information IE group, FACH Information IE group, RACH Information IE group, and \[FDD - AICH Information IE group\]](#). The Node B shall include the IE group within the *Cell Information IE* group, if that resource is present in the Node B for that cell.

The Node B shall include in the AUDIT RESPONSE message a *Communication Control Port Information IE* group for each communication control port present in the Node B

The Node B shall include in the AUDIT RESPONSE message a *Local Cell Information IE* group for each local cell present in the Node B. ~~The Node B shall include the *Number Of Channel Elements IE* if the value is known by the Node B.~~ The Node B shall include the *Maximum DL Power Capability IE* if the value is known by the Node B.

For each cell existing in the Node B but not indicated in the AUDIT REQUEST message, the associated cell configuration information shall be removed from the Node B including any related common physical channels and common transport channels. For each cell not existing in the Node B but indicated in the AUDIT REQUEST message, the Node B shall not take any action.

Upon reception by the CRNC of the AUDIT RESPONSE message, the CRNC compares the received list of C-ID with the expected list of C-IDs.

For each missing cell, a configuration error has occurred and recovery actions should be taken by the CRNC.

8.2.12 Cell Setup

8.2.12.1 General

This procedure is used to set up a cell in Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in Node B identified via the *Local Cell ID* IE.

8.2.12.2 Successful eOperation

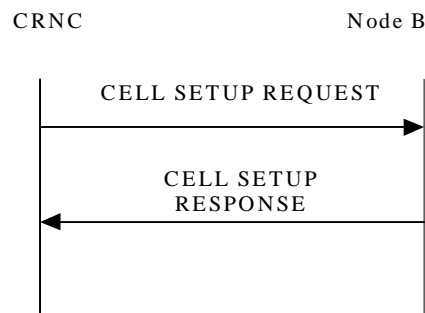


Figure 2: Cell Setup procedure: Successful Operationcase

The procedure is initiated with a CELL SETUP REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes the *Secondary CPICH Information* IE group the Node B shall configure and activate the Secondary CPICH in the cell according to received configuration data.]

The *Maximum ~~transmission~~ Transmission power* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

When the cell is successfully configured the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD- When the cell is successfully configured CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][TDD- When the cell is successfully configured **PSCH**-SCH, Primary CCPCH and BCH exist and the switching-points for the TDD frame structure are defined.]

8.2.12.3 Unsuccessful eOperation

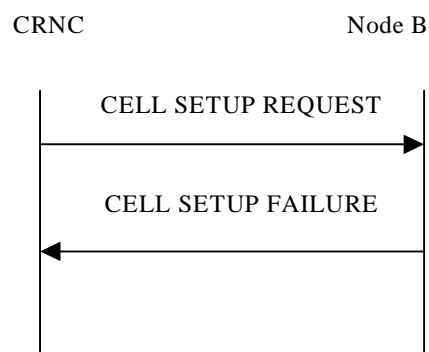


Figure 3: Cell Setup procedure: Unsuccessful Operationcase

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to CRNC.

In this case the cell is Non Existing in Node B. The Configuration Generation ID shall not be changed in Node B.

The *Cause* IE shall be set to an appropriate value.

8.2.12.4 Abnormal Conditions

If the CELL SETUP REQUEST message includes a Local Cell ID IE that is Non Existing in Node B the Node B shall send the CELL SETUP FAILURE message as response.

8.2.13 Cell Reconfiguration

8.2.13.1 General

This procedure is used to reconfigure a cell in Node B.

8.2.13.2 Successful [e](#)Operation

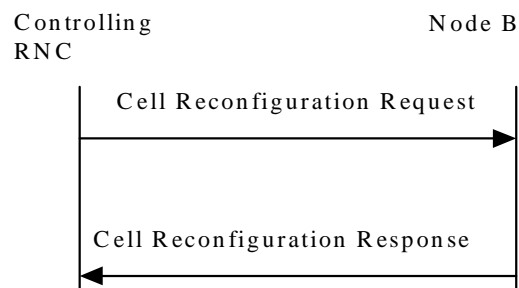


Figure 4: Cell Reconfiguration [procedure](#): Successful [Operation](#)case

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD_ If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information* IE group the Node B shall reconfigure Primary SCH power in the cell according to *Primary SCH Power* IE value.]

[FDD_ If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information* IE group the Node B shall reconfigure Secondary SCH power in the cell according to the *Secondary SCH Power* IE value.]

[FDD_ If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE group the Node B shall reconfigure Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. [Node B](#) shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD_ If the CELL RECONFIGURATION REQUEST message includes the *Secondary CPICH Information* IE group the Node B shall reconfigure Secondary CPICH power in the cell according to the *Secondary CPICH Power* IE value.]

[TDD_ If the CELL RECONFIGURATION REQUEST message includes the [SCH Information](#) IE group the Node B shall reconfigure [SCH](#) power in the cell according to the [SCH Power](#) IE value.]

[FDD_ If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE group the Node B shall reconfigure BCH power in the cell according to the *BCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE group the Node B shall reconfigure P-CCPCH power in the cell according to the *P-CCPCH Power* IE value. [Node B](#) shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power IE* the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timeslot Information IE* group the Node B shall reconfigure switching-point structure in the cell according to the *Timeslot IE* value.]

When the cell is successfully reconfigured the Node B shall store the new *Configuration Generation ID IE* value and send a CELL RECONFIGURATION RESPONSE message as a response.

9.1.16 AUDIT RESPONSE

<u>Information Element/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Cell Information		<i>0.. < maxCellInNodeB maxUCIDinNodeB></i>		
C-ID	M			
Resource Operational State	M			
Availability Status	M			
Maximum DL Power Capability	FFS			
Minimum Spreading Factor	FFS			
Primary SCH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary SCH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Primary CPICH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary CPICH Information		<i>0..<maxSCPICHCell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Primary CCPCH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
BCH Information		<i>0..1</i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			

Secondary CCPCH Information		<i>0..<maxSCCP CHCell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PCH Information		<i>0..<maxPCHC ell ></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PICH Information		<i>0..1</i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
FACH Information		<i>0..<maxFACH Cell></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PRACH Information		<i>0..<maxPRAC HCell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
RACH Information		<i>0..<maxRACH Cell></i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
AICH Information		<i>0..<maxRACH Cell></i>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
SCH Information		<i>0..1</i>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PSCH Information		<i>0..4</i>		
Common Physical Channel ID	M			
Resource Operational State	M			

Availability Status	M			
Communication Control Port Information		0.. <maxCCPinNodeB>		
Communication Control Port ID	M			
Resource Operational State	M			
Availability Status	M			
Local Cell Information		0.. <maxLocalCellinNodeB>		
Local Cell ID	M			
Number of Channel Elements	O			
Maximum DL Power Capability	O			
Criticality diagnostics	O			

Range bound	Explanation
maxCellinNodeB	Maximum number of Cell that can be configured in Node B
maxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
maxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
maxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
maxFACHCell	Maximum number of FACHes that can be defined in a Cell
maxRACHCell	Maximum number of RACHes that can be defined in a Cell
maxPCHCell	Maximum number of PCHes that can be defined in a Cell
maxPICHCell	Maximum number of PICHes that can be defined in a Cell

9.1.23 CELL SETUP REQUEST

9.1.23.1 FDD Message

9.1.23.2 TDD Message

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
Local Cell Id	M			
C-Id	M			
Configuration Generation Id	M			
UARFCN	M			
Cell Parameter ID	M			
Maximum Transmission Power	OM			
Transmission Diversity Applied	M			On DCHs
Sync Case	M			
SCH Information		1		
Common physical channel ID	M			
CHOICE Sync Case				

Case 1				The same TS is used for PCCPCH
Time Slot	M			
Case 2 and Case 3				In Case 2 the same TS is used for PCCPCH
SCH Time Slot	M			
SCH Power	M		DL Power	DL Power
TSTD Indicator	M			
PCCPCH Information		1		
Common physical channel ID	M			
CHOICE Sync Case	M	M	M	M
Case 3	M	M	M	M
Time Slot	M			
TDD Physical Channel Offset	M			
Repetition Period	M			
Repetition Length	M			
PCCPCH Power	M			
STTD Indicator	M			
Time Slot Configuration		1 .. 15		
Time Slot	M			
Time Slot Status	M			
Time Slot Direction	M			

Condition	Explanation
Case 3	This IE is only present if the PSCH&PCCPCH Allocation Sync Case is equal to 3

9.1.26 CELL RECONFIGURATION REQUEST

9.1.26.1 FDD Message

9.1.26.2 TDD Message

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Message discriminator	M			
Message Type	M			
Transaction ID	M			
C-Id	M			
Configuration Generation ID	M			
SCH Information		0,1		
Common Physical Channel ID	M			
SCH Power	M		DL Power	
PCCPCH Information		0,1		
Common Physical Channel ID	M			
PCCPCH Power	M			
Maximum Transmission Power	O			
Time Slot Configuration		01..15		
Time Slot	M			
Time Slot Status	M			
Time Slot Direction	M			

9.1.31 RESOURCE STATUS INDICATION

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Message Discriminator	M			
Message Type	M			
Transaction ID	M			
Indication Type	M			
CHOICE Indication Type				
"No Failure"				
Local Cell Information		1.. <maxLocalCellinNo deB >		
Local Cell ID	M			
Add/Delete Indicator	M			
Number of Channel Elements	M			
Maximum DL Power Capability	M			
"Service Impacting"				
Local Cell Information		0.. <maxLocalCell inNodeB>		
Local Cell ID	M			
Number of Channel Elements	⊖			
Maximum DL Power Capability	O			
Communication Control Port Information		0.. <maxCCPinNo deB>		
Communication Control Port ID	M			
Resource Operational State	M			
Availability Status	M			
Cell Information		0.. <maxCellinNo deB>		
C-ID	M			
Resource Operational State	M			
Availability Status	M			
Maximum DL Power Capability	FFS			
Minimum Spreading Factor	FFS			
Primary SCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary SCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			

State				
Availability Status	M			
Primary CPICH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary CPICH Information		0..<maxSCPIC HCell>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Primary CCPCH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
BCH Information		0..1		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Secondary CCPCH Information		0..<maxSCCP CHCell>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PCH Information		0..<maxPCHCell>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PICH Information		0..1		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
FACH Information		0..<maxFACHCell>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PRACH Information		0..<maxPRACHCell>		

Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
RACH Information		0.. <maxPRACH Cell>		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
AICH Information		0.. <maxPRACH Cell>		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
SCH Information		0..1		
Common Transport Channel ID	M			
Resource Operational State	M			
Availability Status	M			
PSCH Information	M	0..4		
Common Physical Channel ID	M			
Resource Operational State	M			
Availability Status	M			
Cause	O			

Range bound	Explanation
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICH that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCH that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHes that can be defined in a Cell
<i>maxPCHCell</i>	Maximum number of PCHes that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHes and AICHes that can be defined in a Cell
<i>maxCCPinNodeB</i>	Maximum number of communication control ports that can exist in the Node B

9.2.3.10 PSCH Time Slot

The PSCH Time Slot is only applicable if the value of Sync Case IE is Case 2-3.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PSCH Time Slot			INTEGER(0..6)	

9.2.3.14 Sync case

The PSCH and PCCPCH are mapped on one or two downlink slots per frame. There are three cases of PSCH and PCCPCH allocation as follows:

Case 1) PSCH and PCCPCH allocated in a single TS#k

Case 2) PSCH allocated in two TS and PCCPCH in the same two TS: TS#k and TS#k+8
PCCPCH allocated in TS#k

Case 3) PSCH in two TS, TS#k and TS#k+8, and the PCCPCH in TS#i, pointed by PSCH

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Sync Case			Integer (1..2)	

9.3.3 NBAP PDU Content Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    AICH-InformationList,
    AICH-Parameters,
    AICH-Power,

    .
    .
    .

    NumberOfChannelElements,
    Offset,
    PCCPCH-Power,
    PCCPCH-TimeSloti,
    PCH-Power,
    PICH-Information,
    PICH-Power,
PSCH-Power,
PSCHandPCCPCH-Allocation,
PSCHandPCCPCH-TimeSlotK,
    PUSCH,
    PagingIndicatorLength,
    PatternDuration,
    PayloadCRC-PresenceIndicator,
    PilotBitsUsedIndicator,

```

```

.
.
.

id-NeighbouringTDD-Cell-InformationItem,
id-NodeB-CommunicationContextID,
id-PCCPCH-Information,
id-PCH-Information-ResourceStatIndItem,
id-PCH-InformationItem,
id-PCH-ListItem,
id-PCH-Parameters-CTCHreconf-Req-FDD,
id-PCH-ParametersList,
id-PCH-ParametersListItem,
id-PICH-Parameters-CTCHreconf-Req-FDD,
id-PRACH-ParametersList,
id-PRACH-ParametersListItem,
id-PSCH-Information,
id-PSCHandPCCPCH-Information,
id-PUSCH-ListItem,
id-PatternDuration,
id-PowerControlMode,
id-PowerResumeMode,
id-PrimaryCCPCH-Information,

.
.
.

-- *****
--
-- AUDIT RESPONSE
--
-- *****

AuditResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{AuditResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{AuditResponse-Extensions}}           OPTIONAL,
    ...
}

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationList-Audit-Res          CRITICALITY ignore  TYPE Cell-InformationList-Audit-Res  PRESENCE optional }|
    { ID id-CommunicationControlPort-InformationList-Audit-Res          CRITICALITY ignore          TYPE CommunicationControlPort-
InformationList-Audit-Res          PRESENCE optional
}|
    { ID id-Cell-InformationList-Audit-Res          CRITICALITY ignore  TYPE Cell-InformationList-Audit-Res  PRESENCE optional }|
    { ID id-CriticalityDiagnostic                  CRITICALITY ignore          TYPE CriticalityDiagnostic          PRESENCE optional
}

```

```

    },
    ...
}

AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-Audit-Res ::= SEQUENCE (SIZE (1.. maxCellInNodeBmaxUCIDInNodeB)) OF
    ProtocolIE-Container {{Cell-InformationItemIE-Audit-Res }}

Cell-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-Audit-Res      CRITICALITY ignore  TYPE Cell-InformationItem-Audit-Res  PRESENCE  optional  },
    ...
}

Cell-InformationItem-Audit-Res ::= SEQUENCE {
    c-ID          C-ID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus      AvailabilityStatus,
    maximumDLPowerCapability      MaximumDLPowerCapability,
    -- to do
    minimumSpreadingFactor      MinimumSpreadingFactor,
    -- to do
    primary-SCH-Information      P-SCH-Information-Audit-Res  OPTIONAL,
    secondary-SCH-Information      S-SCH-Information-Audit-Res  OPTIONAL,
    primary-CPICH-Information      P-CPICH-Information-Audit-Res  OPTIONAL,
    secondary-CPICH-Information      S-CPICH-Information-Audit-Res  OPTIONAL,
    primary-CCPCH-Information      P-CCPCH-Information-Audit-Res  OPTIONAL,
    bCH-Information      BCH-Information-Audit-Res  OPTIONAL,
    secondary-CCPCH-Information      S-CCPCH-Information-Audit-Res  OPTIONAL,
    pCH-InformationList      PCH-InformationList-Audit-Res  OPTIONAL,
    pICH-Information      PICH-Information-Audit-Res  OPTIONAL,
    fACH-InformationList      FACH-InformationList-Audit-Res  OPTIONAL,
    pRACH-InformationList      PRACH-InformationList-Audit-Res  OPTIONAL,
    rACH-InformationList      RACH-InformationList-Audit-Res  OPTIONAL,
    aICH-InformationList      AICH-InformationList-Audit-Res  OPTIONAL,
    sCH-InformationList      SCH-InformationList-Audit-Res  OPTIONAL,
pSCH-InformationList      PSCH-InformationList-Audit-Res  OPTIONAL,
    communicationControlPortInformation      CommunicationControlPortInformation-Audit-Res  OPTIONAL,
    local-CellInformation      Local-CellInformation-Audit-Res  OPTIONAL
}

P-SCH-Information-Audit-Res ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus      AvailabilityStatus
}

```



```

S-SCH-Information-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

P-CPICH-Information-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

S-CPICH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF
    ProtocolIE-Container {{S-CPICH-InformationItemIE-Audit-Res }}

S-CPICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-InformationItem-Audit-Res          CRITICALITY ignore   TYPE S-CPICH-InformationItem-Audit-Res   PRESENCE mandatory
    },
    ...
}

S-CPICH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID   CommonTransportChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

P-CCPCH-Information-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

BCH-Information-Audit-Res ::= SEQUENCE {
    commonTransportChannelID   CommonTransportChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

S-CCPCH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF
    ProtocolIE-Container {{S-CCPCH-InformationItemIE-Audit-Res }}

S-CCPCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-InformationItem-Audit-Res          CRITICALITY ignore   TYPE S-CCPCH-InformationItem-Audit-Res   PRESENCE mandatory
    },
    ...
}

S-CCPCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,

```

```

    availabilityStatus      AvailabilityStatus
}

PCH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxPCHCell)) OF
    ProtocolIE-Container {{PCH-InformationItemIE-Audit-Res }}

PCH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE PCH-InformationItem-Audit-Res  PRESENCE mandatory
    },
    ...
}

PCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationState        ResourceOperationState,
    availabilityStatus            AvailabilityStatus
}

FACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
    ProtocolIE-Container {{FACH-InformationItemIE-Audit-Res}}

FACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE FACH-InformationItem-Audit-Res  PRESENCE mandatory      },
    ...
}

FACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationState        ResourceOperationState,
    availabilityStatus            AvailabilityStatus
}

PRACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF
    ProtocolIE-Container {{PRACH-InformationItemIE-Audit-Res}}

PRACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE PRACH-InformationItem-Audit-Res  PRESENCE mandatory      },
    ...
}

PRACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationState        ResourceOperationState,
    availabilityStatus            AvailabilityStatus
}

RACH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-InformationItemIE-Audit-Res}}

RACH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-Audit-Res      CRITICALITY ignore  TYPE RACH-InformationItem-Audit-Res  PRESENCE mandatory      },

```

```

}
...
}
RACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}
AICH-InformationList-Audit-Res ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-InformationItemIE-Audit-Res}}
AICH-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-Audit-Res    CRITICALITY ignore    TYPE RACH-InformationItem-Audit-Res PRESENCE mandatory    },
    ...
}
AICH-InformationItem-Audit-Res ::= SEQUENCE {
    CommonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}
SCH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}
RACH-InformationItem-Audit-Res ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState      ResourceOperationState,
    availabilityStatus          AvailabilityStatus
}
CommunicationControlPort-InformationList-Audit-Res ::=SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
    ProtocolIE-Container {{CommunicationControlPort-InformationItemIE }}
CommunicationControlPort-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationControlPort-InformationItem-Audit-Res    CRITICALITY ignore    TYPE CommunicationControlPort-InformationItem-
Audit-Res    PRESENCE    mandatory
    },
}
CommunicationControlPort-InformationItem-Audit-Res ::= SEQUENCE {
    communicationControlPortID CommunicationControlPortID,
    resourceOperationalState    ResourceOperationalState,
    availabilityStatus          AvailabilityStatus
}
LocalCell-InformationList-Audit-Res ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF

```

```

ProtocolIE-Container {{LocalCell-InformationItemIE-Audit-Res}}

LocalCell-InformationItemIE-Audit-Res NBAP-PROTOCOL-IES ::= {
  { ID id-LocalCell-InformationItem-Audit-Res CRITICALITY ignore TYPE LocalCell-InformationItem-Audit-Res PRESENCE mandatory },
  ...
}

LocalCell-InformationItem-Audit-Res ::= SEQUENCE {
  localCellID LocalCellID,
  numberOfChannelElements NumberOfChannelElements OPTIONAL,
  maximumDLPowerCapability MaximumDLPowerCapability OPTIONAL
}

-- *****
--
-- COMMON MEASUREMENT INITIATION REQUEST
--
-- *****
.
.
.

-- *****
--
-- CELL SETUP REQUEST TDD
--
-- *****

CellSetupRequestTDD ::= SEQUENCE {
  protocolIES ProtocolIE-Container {{CellSetupRequestTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CellSetupRequestTDD-Extensions}} OPTIONAL,
  ...
}

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-LocalCell-ID CRITICALITY ignore TYPE LocalCell-ID PRESENCE mandatory }|
  { ID id-C-ID CRITICALITY ignore TYPE C-ID PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID CRITICALITY ignore TYPE ConfigurationGenerationID PRESENCE mandatory }|
  { ID id-UARFCN CRITICALITY ignore TYPE UARFCN PRESENCE mandatory }|
  { ID id-Cell-Parameter-ID CRITICALITY ignore TYPE Cell-Parameter-ID PRESENCE mandatory }|
  { ID id-MaximumTransmissionPower CRITICALITY ignore TYPE MaximumTransmissionPower PRESENCE mandatoryoptional }|
  { ID id-TransmissionDiversityApplied CRITICALITY ignore TYPE TransmissionDiversityApplied PRESENCE mandatory }|
  { ID id-SyncCase CRITICALITY ignore TYPE TransmissionDiversityApplied PRESENCE mandatory }|
  { ID id-PSCH-Information-CellsetupReqTDD CRITICALITY ignore TYPE PSCH-Information-CellsetupReqTDD PRESENCE mandatory }|
  { ID id-PCCPCH-Information-CellsetupReqTDD CRITICALITY ignore TYPE PCCPCH-Information-CellsetupReqTDD PRESENCE mandatory }|
  { ID id-TimeSlotConfigurationList-CellsetupReqTDD CRITICALITY ignore TYPE TimeSlotConfigurationList-CellsetupReqTDD
  PRESENCE mandatory
},
  ...
}

```

```

}

CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

| PSCH-Information-CellsetupReqTDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  syncCaseIndicator            SyncCaseIndicator-CellsetupReqTDD,
  pSSCH-Power                  DL-Power,
  tSTD-Indicator                TSTD-Indicator
}

SyncCaseIndicator-CellsetupReqTDD ::= ENUMERATED {
  case1                        Casel-CellsetupReqTDD,
  case2andCase3__             Case2andCase3-CellsetupReqTDD
}

Casel-CellsetupReqTDD ::= SEQUENCE {
  timeSlot                    TimeSlot
}

Case2andCase3-CellsetupReqTDD ::= SEQUENCE {
  PSSCH-TimeSlot              PSSCH-TimeSlot
}

PCCPCH-Information-CellsetupReqTDD ::= SEQUENCE {
syncCaseIndicator            SyncCaseIndicator-CellsetupReqTDD2,
  repetitionPeriod            RepetitionPeriod,
  repetitionLength            RepetitionLength,
  pCCPCH-Power                DL-Power,
  tSTD-Indicator                TSTD-Indicator
}

SyncCaseIndicator-CellsetupReqTDD2 ::= ENUMERATED {
case3                        Case3-CellsetupReqTDD
}

Case3-CellsetupReqTDD ::= SEQUENCE {
timeSlot                    TimeSlot
}

TimeSlotConfigurationList-CellsetupReqTDD ::= SEQUENCE (SIZE (1..15)) OF
  ProtocolIE-Container{{TimeSlotConfigurationList-CellsetupReqTDD ItemIE }}

TimeSlotConfigurationList-CellsetupReqTDDItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-TimeSlotConfigurationList-CellsetupReqTDDItem      CRITICALITY ignore      TYPE      TimeSlotConfigurationList-
  CellsetupReqTDDItem      PRESENCE      mandatory
  },
  ...
}

```

```

}

TimeSlotConfigurationList-CellsetupReqTDDItem ::= SEQUENCE {
    timeSlot          TimeSlot,
    timeSlotStatus    TimeSlotStatus,
    timeSlotDirection TimeSlotDirection
}

-- *****
--
-- CELL SETUP RESPONSE
--
-- *****

.
.
.

-- *****
--
-- CELL RECONFIGURATION REQUEST TDD
--
-- *****

CellReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CellReconfigurationRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}
    ...
}

CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-LocalCell-ID          CRITICALITY ignore TYPE LocalCell-ID          PRESENCE mandatory }|
    { ID id-C-ID                  CRITICALITY ignore TYPE C-ID                  PRESENCE mandatory }|
    { ID id-ConfigurationGeneration-ID CRITICALITY ignore TYPE ConfigurationGeneration-ID PRESENCE optional }|
    { ID id-MaximumTransmissionPower CRITICALITY ignore TYPE MaximumTransmissionPower PRESENCE optional }|
    { ID id-PSCH-Information-CellReconfReq CRITICALITY ignore TYPE PSCH-Information-CellReconfReq PRESENCE optional }|
    { ID id-PCCPCH-Information-CellReconfReq CRITICALITY ignore TYPE PCCPCH-Information-CellReconfReq PRESENCE optional }|
    { ID id-TimeSlotConfigurationList-CellReconfReq CRITICALITY ignore TYPE TimeSlotConfigurationList-CellReconfReq PRESENCE mandatory },
    ...
}

CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PSCH-Information-CellReconfReq ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    pSCH-Power              PSCHDL-Power
}

```

```

PCCPCH-Information-CellReconfReq ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    pCCPCH-Power                 PCCPCH-Power
}

TimeSlotConfigurationList-CellReconfReq ::= SEQUENCE (SIZE (1..15)) OF
    ProtocolIE-Container {{TimeSlotConfiguration-CellReconfReqItemIE }}

TimeSlotConfiguration-CellReconfReqItemIE NBAP-PROTOCOL-IES ::= {
    { I D id-TimeSlotConfiguration-CellReconfReqItem      CRITICALITY ignore TYPE TimeSlotConfiguration-CellReconfReqItem      PRESENCE
    mandatory
},
    ...
}

TimeSlotConfiguration-CellReconfReqItem ::= SEQUENCE {
    timeSlot              TimeSlot,
    timeSlotStatus        TimeSlotStatus,
    timeSlotDirection     TimeSlotDirection
}

-- *****
--
-- CELL RECONFIGURATION RESPONSE
--
-- *****

.
.
.

-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

ResourceStatusIndication ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{ResourceStatusIndication-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}}      OPTIONAL,
    ...
}

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-IndicationType      CRITICALITY ignore TYPE IndicationType      PRESENCE mandatory }|
    { ID id-Cause                CRITICALITY ignore TYPE Cause                PRESENCE mandatory },
    ...
}

```

```

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

IndicationType ::= ENUMERATED {
  no-Failure          No-Failure,
  serviceImpacting   ServiceImpacting
}

No-Failure ::= SEQUENCE {
  local-CellInformationList-ResourceStatInd          Local-CellInformationList-ResourceStatInd
}

Local-CellInformationList-ResourceStatInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF
  ProtocolIE-Container {{Local-CellInformation-ResourceStatIndItemIE}}

Local-CellInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Local-CellInformation-ResourceStatIndItem  CRITICALITY ignore  TYPE Local-CellInformation-ResourceStatIndItem  PRESENCE mandatory  },
  ...
}

Local-CellInformation-ResourceStatIndItem ::= SEQUENCE {
  local-CellID          Local-CellID,
  addOrDeleteIndicator  AddOrDeleteIndicator,
  numberOfChannelElements NumberOfChannelElements,
  maximum-DL-PowerCapability  Maximum-DL-PowerCapability
}

ServiceImpacting ::= SEQUENCE {
  local-Cell-InformationList-ResourceStatInd          Local-Cell-InformationList-ResourceStatInd  OPTIONAL,
  communicationControlPortInformationList-ResourceStatInd
  CommunicationControlPortInformationList-ResourceStatInd  OPTIONAL,
  cell-InformationList-ResourceStatInd          Cell-InformationList-ResourceStatInd  OPTIONAL,
  primary-SCH-Information          P-SCH-Information-Audit-Res  OPTIONAL,
  secondary-SCH-Information        S-SCH-Information-Audit-Res  OPTIONAL,
  primary-CPICH-Information        P-CPICH-Information-Audit-Res  OPTIONAL,
  secondary-CPICH-Information      S-CPICH-Information-Audit-Res  OPTIONAL,
  primary-CCPCH-Information        P-CCPCH-Information-Audit-Res  OPTIONAL,
  bCH-InformationItem-ResourceStatInd          BCH-InformationItem-ResourceStatInd  OPTIONAL,
  secondary-CCPCH-Information      S-CCPCH-Information-Audit-Res  OPTIONAL,
  pCH-InformationList-ResourceStatInd          PCH-InformationList-ResourceStatInd  OPTIONAL,
  pICH-InformationItem-ResourceStatInd          PICH-InformationItem-ResourceStatInd  OPTIONAL,
  fACH-InformationList-ResourceStatInd          FACH-InformationList-ResourceStatInd  OPTIONAL,
  pRACH-InformationList          PRACH-InformationList-Audit-Res  OPTIONAL,
  rACH-InformationList-ResourceStatInd          RACH-InformationList-ResourceStatInd  OPTIONAL,
  aICH-InformationList-ResourceStatInd          AICH-InformationList-ResourceStatInd  OPTIONAL,
  sCH-InformationList-ResourceStatInd          SCH-InformationList-ResourceStatInd  OPTIONAL,
  pSCH-InformationList PSCH-InformationList-Audit-Res OPTIONAL,
}

```



```

Local-Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
  ProtocolIE-Container {{Local-Cell-Information-ResourceStatIndItemIE }}

Local-Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Information-ResourceStatIndItem  CRITICALITY ignore  TYPE Local-Cell-Information-ResourceStatIndItem  PRESENCE mandatory  },
  ...
}

Local-Cell-Information-ResourceStatIndItem ::= SEQUENCE {
  local-CellID          Local-CellID,
  numberOfChannelElements NumberOfChannelElements OPTIONAL,
  maximum-DL-PowerCapability  Maximum-DL-PowerCapability  OPTIONAL
}

CommunicationControlPortInformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF
  ProtocolIE-Container {{CommunicationControlPortInformation-ResourceStatIndItemIE }}

CommunicationControlPortInformation-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-CommunicationControlPortInformation-ResourceStatIndItem
    CRITICALITY ignore          TYPE CommunicationControlPortInformation-ResourceStatIndItem
    PRESENCE mandatory  },
  ...
}

CommunicationControlPortInformation-ResourceStatIndItem ::= SEQUENCE {
  communicationControlPortID      CommunicationControlPortID,
  resourceOperationalState        ResourceOperationalState,
  availabilityStatus              AvailabilityStatus
}

Cell-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF
  ProtocolIE-Container {{Cell-Information-ResourceStatIndItemIE }}

Cell-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-Information-ResourceStatIndItem  CRITICALITY ignore  TYPE Cell-Information-ResourceStatIndItem  PRESENCE mandatory},
  ...
}

Cell-Information-ResourceStatIndItem ::= SEQUENCE {
  c-ID          C-ID,
  resourceOperationalState  ResourceOperationalState,
  availabilityStatus        AvailabilityStatus,
  maximumDL-PowerCapability  MaximumDL-PowerCapability,
  minimumSpreadingFactor     MinimumSpreadingFactor
}

P-SCH-Information-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  resourceOperationState        ResourceOperationState,
  availabilityStatus            AvailabilityStatus
}

```

```

}

S-SCH-Information-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

P-CPICH-Information-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

S-CPICH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF
    ProtocolIE-Container {{S-CPICH-InformationItemIE-ResourceStatInd }}

S-CPICH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-InformationItem-ResourceStatInd    CRITICALITY ignore    TYPE S-CPICH-InformationItem-ResourceStatInd    PRESENCE mandatory
},
    ...
}

S-CPICH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

P-CCPCH-Information-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID    CommonPhysicalChannelID,
    resourceOperationState     ResourceOperationState,
    availabilityStatus         AvailabilityStatus
}

BCH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus         AvailabilityStatus
}

PCH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxPCHinNodeB)) OF
    ProtocolIE-Container {{PCH-Information-ResourceStatIndItemIE }}

PCH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-Information-ResourceStatIndItem    CRITICALITY ignore    TYPE PCH-Information-ResourceStatIndItem    PRESENCE mandatory},
    ...
}

PCH-Information-ResourceStatIndItem ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,

```

```

    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus
}

PICH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus
}

FACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF
    ProtocolIE-Container {{FACH-Information-ResourceStatIndItemIE }}

FACH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-Information-ResourceStatIndItem      CRITICALITY ignore   TYPE FACH-Information-ResourceStatIndItem   PRESENCE mandatory},
    ...
}

FACH-Information-ResourceStatIndItem ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus
}

PRACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF
    ProtocolIE-Container {{PRACH-InformationItemIE-ResourceStatInd}}

PRACH-InformationItemIE-ResourceStatInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-ResourceStatInd      CRITICALITY ignore   TYPE PRACH-InformationItem-ResourceStatInd PRESENCE mandatory   },
    ...
}

PRACH-InformationItem-ResourceStatInd ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus
}

RACH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxRACHCell)) OF
    ProtocolIE-Container {{RACH-Information-ResourceStatIndItemIE }}

RACH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-Information-ResourceStatIndItem      CRITICALITY ignore   TYPE RACH-Information-ResourceStatIndItem   PRESENCE mandatory},
    ...
}

RACH-Information-ResourceStatIndItem ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus
}

```

```

AICH-InformationList-ResourceStatInd ::= SEQUENCE (SIZE (1..maxAICHCell)) OF
  ProtocolIE-Container {{AICH-Information-ResourceStatIndItemIE }}

AICH-Information-ResourceStatIndItemIE NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information-ResourceStatIndItem   CRITICALITY ignore   TYPE AICH-Information-ResourceStatIndItem   PRESENCE mandatory},
  ...
}

AICH-Information-ResourceStatIndItem ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus
}

SCH-Information-ResourceStatInd ::= SEQUENCE {
  commonTransportChannelID     CommonTransportChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus
}

PSCH-Information-ResourceStatInd ::= SEQUENCE {
  commonPhysicalChannelID     CommonPhysicalChannelID,
  resourceOperationalState     ResourceOperationalState,
  availabilityStatus           AvailabilityStatus
}

-- *****
--
-- SYSTEM INFORMATION UPDATE REQUEST
--
-- *****

.
.
.

```

9.3.4 NBAP Information Elements

```

__*****
--
-- Information Element Definitions
--
__*****

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxTFcount,
    maxnoofTFCs,
    maxCTF-1,
    maxRM,

FROM NBAP-Constants;

DTX-InsertionPoint ::= INTEGER
DedicatedMeasurementValue ::= INTEGER
DeltaTPC ::= INTEGER

-----
-- A
-----

    .
    .
    .

-- PCCPCH Power unit dBm
-- PCCPCH Power step 0.1dBm
PCCPCH-power ::= INTEGER (-15..40)
| P-SCH-TimeSlot ::= INTEGER (0..6)
| P-SCH-Power ::= INTEGER (0..511)
PUSCH-Offset ::= INTEGER (0..255)

-----
-- R
-----

```

-
-
-

9.3.7 Constant Definitions for NBAP

```

-- *****
--
-- Constant definitions
--
-- *****

NBAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

    .
    .
    .

id-PICH-Parameters-CTChreconf-Req-FDD          INTEGER ::= 131
id-PRACH-ParametersList                        INTEGER ::= 132
id-PRACH-ParametersListItem                   INTEGER ::= 133
id-PSCH-Information                            INTEGER ::= 134
id-PSCHandCCPCH-Information                   INTEGER ::= 135
id-PUSCH-ListItem                             INTEGER ::= 136
id-PatternDuration                            INTEGER ::= 137
id-PowerControlMode                           INTEGER ::= 138
id-PowerResumeMode                            INTEGER ::= 139
id-PrimaryCCPCH-Information                   INTEGER ::= 140

    .
    .
    .

```

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 046r1

Current Version: **3.0.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **RAN#7**
list expected approval meeting # here
↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: RAN-WG3 **Date:** 28 Feb 2000

Subject: Introduction of 'Repetition Number' into 'Criticality Diagnostics' IE

Work item:

Category:	F Correction	<input type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
<small>(only one category shall be marked with an X)</small>	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input checked="" type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
				Release 00	<input type="checkbox"/>

Reason for change: If a repeated IE has criticality information applied to EACH repetition, it must be possible to report the repetition number of the not comprehended information element.

Clauses affected: 9.2.1.16 Criticality diagnostics; 9.3.4 NBAP Information Elements

Other specs affected:	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

Other comments: The 'Criticality Diagnostics' IE is missing from version 3.0.0



help.doc

<----- double-click here for help and instructions on how to create a CR.

9.2.1.16 Criticality diagnostics

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Criticality Diagnostics				
Procedure Code	O		INTEGER (0..255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
Triggering Message	O		ENUMERATED (initiating message, successful outcome, unsuccessful outcome)	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
Criticality Response	O		ENUMERATED (reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
Transaction Id	O		INTEGER (0..255)	
Information Element Criticality Diagnostics		1 to <maxnoof errors>		
Criticality Response	M		ENUMERATED (reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'ignore' shall never be used.
IE Id	M		INTEGER (0..65535)	The IE Id of the not understood IE
<u>Repetition Number</u>	<u>O</u>		<u>INTEGER (0..255)</u>	<u>The repetition number of the not understood IE if applicable</u>

Range bound	Explanation
<i>maxnooferrors</i>	Maximum no. of IE errors allowed to be reported with a single message. The value for maxnooferrors is 256.

9.3.4 NBAP Information Elements

.
 .
 .

```

CRC-Size ::= ENUMERATED {
size0,
size12,
size16,
size24
}
  
```

```

CriticalityDiagnostics ::= SEQUENCE {
  procedureCode      ProcedureCode      OPTIONAL,
  triggeringMessage  TriggeringMessage  OPTIONAL,
  criticalityResponse Criticality        OPTIONAL,
  transactionID     TransactionID       OPTIONAL,
  iEsCriticalityResponses CriticalityDiagnostics-IE-List OPTIONAL,
  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)
  
```

```

CTFC ::= INTEGER (0..maxCTF-1)
  
```

```

-----
-- D
-----
  
```

-
-
-

```
RepetitionLength ::= ENUMERATED {
length1,
length2,
length4,
length8
}
RepetitionNumber ::= INTEGER (0..255)
ReportCharacteristicsType ::= CHOICE {
onDemand          NULL,
periodic          ReportPeriodicity,
event-a           EventA,
event-b           EventB,
event-c           EventC,
event-d           EventD,
event-e           EventE,
event-f           EventF
}
```