

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

**TSGRP#8(00)0252**

**Title: Agreed CRs to TS 25.433**

**Source: TSG-RAN WG3**

**Agenda item: 5.3.3**

<b>Tdoc_Num</b>	<b>Specification</b>	<b>CR_Num</b>	<b>Revision_Nu</b>	<b>CR_Subject</b>	<b>CR_Category</b>	<b>WG_Status</b>	<b>Cur_Ver_Num</b>	<b>New_Ver_Nu</b>
R3-001489	25.433	128	1	Introduction of first RLS indicator	B	agreed	3.1.0	3.2.0
R3-001497	25.433	124	1	Alignment of Diversity Indication IE between	F	agreed	3.1.0	3.2.0
R3-001498	25.433	162		Corrections on inconsistency sync	F	agreed	3.1.0	3.2.0
R3-001520	25.433	110	2	More stringent power control behaviour	F	agreed	3.1.0	3.2.0
R3-001527	25.433	137	1	Ambiguous CTrCh Setup Resp	F	agreed	3.1.0	3.2.0
R3-001528	25.433	121	1	Range bounds related to TFCS, TFS and PDSCH	F	agreed	3.1.0	3.2.0
R3-001529	25.433	138	1	Simplified fault handling for CTrCh Reconfiguration	F	agreed	3.1.0	3.2.0
R3-001532	25.433	136	1	PRACH scrambling code word	F	agreed	3.1.0	3.2.0
R3-001562	25.433	134	1	Clarification on "ALLNBCC"	F	agreed	3.1.0	3.2.0
R3-001565	25.433	119	2	Change of definition of the Quality Estimation (QE)	F	agreed	3.1.0	3.2.0
R3-001568	25.433	145	2	Introduction of SFN IE	F	agreed	3.1.0	3.2.0
R3-001575	25.433	107	3	UL Power Clarification for Node B generated SIB in	F	agreed	3.1.0	3.2.0

R3-001584	25.433	148	2	Reference for the limited power increase algorithm	F	agreed	3.1.0	3.2.0
R3-001585	25.433	156	2	Power Offset for S-CCPCH	B	agreed	3.1.0	3.2.0
R3-001590	25.433	096	5	Addition of limited power increase parameters in	C	agreed	3.1.0	3.2.0
R3-001591	25.433	147	2	Alignment of System Information	F	agreed	3.1.0	3.2.0
R3-001611	25.433	123	3	Downlink power balancing	F	agreed	3.1.0	3.2.0
R3-001614	25.433	133	2	Transport bearer related parameters	F	agreed	3.1.0	3.2.0
R3-001630	25.433	153	2	Clarification to NBAP Message Syntax	F	agreed	3.1.0	3.2.0
R3-001637	25.433	163	1	Transforming tabular format Choices to ASN.1	D	agreed	3.1.0	3.2.0
R3-001640	25.433	149	2	Handling of measurements non	F	agreed	3.1.0	3.2.0

<3GPP TSG-RA WG3 Meeting #13  
Hawaii, USA, 22-26 May 2000

**Document R3-001590**

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

<b>CHANGE REQUEST</b>				Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.433</b>		<b>CR 96r5</b>		Current Version: <b>3.1.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team			
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here</small> ↑		for approval for information		strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>	
		<input checked="" type="checkbox"/>			

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:** May 2000

**Subject:** Inclusion of limited power increase parameters in Cell Setup

**Work item:**

<b>Category:</b>	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"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

**Reason for change:** In WG3 meeting #11, Tdocs R3-000748 and R3-000749 introduces the Limited Power Increase parameter in the RNSAP and NBAP RL Setup. Agreed definition is the following (from RNSAP):

**9.2.1.xx Limited Power Increase**

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

If the limited power increase is used, DRNS shall use the limited poser increase algorithm as specified in 25.214, Chapter 5.2.

In order to allow the RNC to have the control of the limited power increase parameter, the CR includes the *Power\_Raise\_Limit* and *DL\_power\_averaging\_window\_size* parameter in the Cell Setup.

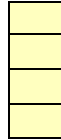
Parameter ranges are defined as follows:  
 - Power\_Raise\_Limit: 0-10 dB, step size 1 dB  
 - DL\_power\_averaging\_window\_size: 1-60 time slots, range 1 time slot

**Clauses affected:**

- 9.1.23.1 Cell Setup Request FDD Message,
- 9.2.2. X , Power\_Raise\_Limit
- 9.2.2. X DL\_power\_averaging\_window\_size,
- 9.3.3 PDU Defintions
- 9.3.4 Information Element Definitions
- 9.3.7 Constant Definitions

**Other specs affected:** Other 3G core specifications  → List of CRs:   
 Other GSM core  → List of CRs:

specifications  
MS test specifications  
BSS test specifications  
O&M specifications



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



**Other  
comments:**



help.doc

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

## 9.1.23 CELL SETUP REQUEST

### 9.1.23.1 FDD Message

IE/Group Name	Presence	Range	IE type and Reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
Local Cell Id	M				YES	reject
C-Id	M				YES	reject
Configuration Generation Id	M				YES	reject
T Cell	M				YES	reject
UARFCN	M			Corresponds to Nu [TS25.104]	YES	reject
UARFCN	M			Corresponds to Nd [TS25.104]		

Maximum transmission power	M				YES	reject
Primary scrambling code	M				YES	reject
<b>Primary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				-	
>Primary SCH Power	M		DL Power		-	
>TSTD Indicator	M				-	
<b>Secondary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				-	
>Secondary SCH power	M		DL Power		-	
>TSTD Indicator	M				-	
<b>Primary CPICH Information</b>		1			YES	reject
>Common Physical Channel ID	M				-	
>Primary CPICH power	M				-	
>Transmit Diversity Indicator	M				-	
<b>Secondary CPICH Information</b>		0..<maxSCPICHCell>			YES	reject
>Common Physical Channel ID	M				-	
>DL Scrambling code	M				-	
>FDD DL Channelisation Code Number	M				-	
>Secondary CPICH Power	M		DL Power		-	
>Transmit Diversity Indicator	M				-	
<b>Primary CCPCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				-	
<b>&gt;BCH Information</b>		1			-	
>>Common Transport Channel ID	M				-	
>>BCH Power	M		DL Power		-	
>STTD Indicator	M				-	
<b>Limited power increase information</b>		1			YES	reject
>Power Raise Limit	M				-	
>DL power averaging window size	M				-	

Range bound	Explanation
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

## 9.2.2 FDD specific parameters

### 9.2.2.x Power Raise Limit

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Power Raise Limit</u>			INTEGER (0..10)	0-10 dB, step size 1 dB

9.2.2.x DL power averaging window size

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>DL power averaging window size</u>			<u>INTEGER (1..60)</u>	<u>1-60 time slots, step size 1 slot</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
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
```



```
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DLPowerAveragingWindowSize,  
DL-ScramblingCode,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,
```

PowerRaiseLimit,  
PowerResumeMode,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,

```
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
USCH-ID
FROM NBAP-IEs

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

id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersList-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRLItem-Set-DM-Rprt,
id-AllRLItem-Set-DM-Rsp,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
```

id-CellParameterID,  
id-CFN,  
id-C-ID,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
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id-CombiningItem-RL-SetupRspFDD,  
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id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
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id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
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id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
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id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
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id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
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id-DSCH-ModifyListIE-RL-ReconfRsp,  
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id-FACH-InformationItem-ResourceStatusInd,  
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id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
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id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
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id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
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id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD,  
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id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
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id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
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id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
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id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
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id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,

id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
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id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-RL-ID,  
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id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,

id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,



id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,  
id-USCH-ModifyListIE-RL-ReconfReady,  
id-USCH-ModifyListIE-RL-ReconfRsp,  
id-USCH-SetupListIE-RL-ReconfReady,  
id-USCH-SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,  
maxNrOfCodes,  
maxNrOfCmpatterns,  
maxNrOfDCHs,  
maxNrOfDLCodes,  
maxNrOfDPCHs,  
maxNrOfDSCHs,  
maxNrOfFACHs,  
maxNrOfRFLs,  
maxNrOfRFLSets,  
maxNrOfPRACHs,  
maxNrOfPDSCHs,

```

maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSs,
maxNrOfUSCHs,
maxFACHCell,
maxRACHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxLocalCellinNodeB,
maxSF,
maxIB,
maxIBSEG
FROM NBAP-Constants;

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

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

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

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

```

```

{ ID id-UARFCNforNd CRITICALITY reject TYPE UARFCN PRESENCE
mandatory }|
{ ID id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower
PRESENCE mandatory }|
{ ID id-PrimaryScramblingCode CRITICALITY reject TYPE PrimaryScramblingCode
PRESENCE mandatory }|
{ ID id-PrimarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimarySCH-Information-Cell-SetupRqstFDD
PRESENCE mandatory }|
{ ID id-SecondarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE SecondarySCH-Information-Cell-SetupRqstFDD
PRESENCE mandatory }|
{ ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-SetupRqstFDD
PRESENCE mandatory }|
{ ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-SetupRqstFDD
PRESENCE optional }|
{ ID id-PrimaryCCPCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-SetupRqstFDD
PRESENCE mandatory }|
{ ID id-Limited-power-increase-information-Cell-SetupRqstFDD CRITICALITY reject TYPE Limited-power-increase-information-Cell-
SetupRqstFDD PRESENCE mandatory },
,
...
}

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
powerRaiseLimit                 PowerRaiseLimit,
dlPowerAveragingWindowSize      DLPowerAveragingWindowSize,
...
}

```

```

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

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

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

-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE TDD
--
-- *****

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

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

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

END

```

## 9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

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

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

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

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

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

AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete,

```

```
    ...
}

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

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
}

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..2047)
-- Time = BCCH-ModificationTime * 2
-- Range 0 to 4094, step 2
-- All even SFN values are allowed

BindingID ::= OCTET STRING (SIZE (1..4, ...))

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

BlockSTTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
```

```
BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2),
    ...
}

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

Cause ::= CHOICE {
    radioNetwork          CauseRadioNetwork,
    transport             CauseTransport,
    protocol              CauseProtocol,
    misc                  CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

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

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scramblingcode-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAlocated,
    nodeB-Resources-unavailable,
    insufficient-physical-channel-resources,
    measurement-not-supported-for-the-object,
    macrodiversity-combining-not-possible,
    reconfiguration-not-allowed,
}
```



```
requested-configuration-not-supported,
synchronisation-failure,
sIB-Origination-in-Node-B-not-Supported,
unspecified,
priority-transport-channel-established,
...
}

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

CCTrCH-ID ::= INTEGER (0..15)

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

CFNOffset ::= INTEGER (0..255)

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

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

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

CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iscp,
    ...
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power    Transmitted-Carrier-Power-Value,
    rssi                          RSSI-Value,
    acknowledged-ra-tries        Acknowledged-RA-Tries-Value,
    time-slot-iscp                TimeSlot-ISCP-Value,
    ...
}
```

```

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

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

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

CriticalityDiagnostics ::= SEQUENCE {
    procedureCode          ProcedureCode          OPTIONAL,
    triggeringMessage      TriggeringMessage      OPTIONAL,
    criticalityResponse    Criticality            OPTIONAL,
    transactionID          TransactionID          OPTIONAL,
    iEsCriticalityResponses CriticalityDiagnostics-IE-List,
    iE-Extensions          ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
SEQUENCE {
    criticalityResponse Criticality,
    iE-ID                ProtocolIE-ID,
    repetitionNumber     RepetitionNumber        OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

```

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

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

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

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

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

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

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

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

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

```

    closed-loop-mode2,
    ...
}

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

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

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

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

DLPowerAveragingWindowSize ::= INTEGER (1..60)

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

DPCH-ID ::= INTEGER (0..239)

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

-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TFS ::= INTEGER

-- =====
-- E
-- =====

-- =====
-- F
-- =====

FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 255)
-- The maximum value is equal to the DL spreading factor -1--

FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [TS 25.211] --

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

```

```
}

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

FrameOffset ::= INTEGER (0..255)

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

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

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

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

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

IB-SG-DATA ::= BIT STRING

IB-SG-POS ::= INTEGER (0..2064)
-- Only even positions allowed

IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048}

IB-Type ::= ENUMERATED {
    mib,
    sib1,
    sib2,
    sIB3,
    sIB4,
    sIB5,
    sIB6,
    sIB7,
    sIB8,
    sIB9,
    sIB10,
    sIB11,
    sib12,
    sIB13,
    sIB13dot1,
```

```
sIB13dot2,
sIB13dot3,
sIB13dot4,
sIB14,
...
}

IndicationType ::= ENUMERATED {
    noFailure,
    serviceImpacting,
    ...
}

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

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

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

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

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

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

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

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

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

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- Measurement Filter Coefficient to be used for measurement

MeasurementID ::= INTEGER (0..1048575)

MidambleShift ::= INTEGER (0..15)
```

```
MinSpreadingFactor ::= ENUMERATED {
    v4,
    v16,
    v32,
    v64,
    v128,
    v256,
    v512,
    ...
}

MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

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

-- =====
-- N
-- =====

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

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

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

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

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    CRC-Included,
    CRC-NotIncluded,
    ...
}
```

```

PCCPCH-Power ::= INTEGER (-150..400)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

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

PDSCH-CodeMapping ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    signallingMethod          CHOICE {
        code-Range            PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
        tFCI-Range            PDSCH-CodeMapping-DSCH-MappingInformationList,
        explicit               PDSCH-CodeMapping-PDSCH-CodeInformationList
    },
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0..maxCodeNrComp-1)

PDSCH-CodeMapping-SpreadingFactor ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF
SEQUENCE {
    spreadingFactor            PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo            PDSCH-Multi-CodeInfo,
    start-CodeNumber          PDSCH-CodeMapping-CodeNumberComp,
    stop-CodeNumber           PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF

```



```

SEQUENCE {
    maxTFCI-field2-Value          PDSCH-CodeMapping-MaxTFCI-Field2-Value,
    spreadingFactor              PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo              PDSCH-Multi-CodeInfo,
    codeNumber                  PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions                ProtocolExtensionContainer { { PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-MaxTFCI-Field2-Value ::= INTEGER (1..1023)

PDSCH-CodeMapping-PDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
    SEQUENCE {
        spreadingFactor          PDSCH-CodeMapping-SpreadingFactor,
        multi-CodeInfo          PDSCH-Multi-CodeInfo,
        codeNumber              PDSCH-CodeMapping-CodeNumberComp,
        iE-Extensions            ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs} } OPTIONAL,
        ...
    }

PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-Multi-CodeInfo ::= INTEGER (1..16)

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

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

PICH-Mode ::= ENUMERATED {
    v18,
    v36,
    v72,
    v144,
    ...
}

PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}

PowerControlMode ::= ENUMERATED {
    v0,
    v1,

```

```
    ...
}

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

PowerRaiseLimit ::= INTEGER (0..10)

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

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

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

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

PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = 0chip, 1 = 3chips

SCH-TimeSlot ::= INTEGER (0..6)

PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%

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

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

-- =====
-- Q
-- =====

QE-Selector ::= ENUMERATED {
    selected-DCH,
```

```

    non-selected-DCH
}

-- =====
-- R
-- =====

RACH-SlotFormat ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    ...
}

RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 11=Sub Channel Number 11

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64,
    ...
}

RepetitionNumber ::= INTEGER (0..255)

ReftFCNumber ::= INTEGER (0..15)

ReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          ReportCharacteristicsType-ReportPeriodicity,
    event-a           ReportCharacteristicsType-EventA,
    event-b           ReportCharacteristicsType-EventB,
    event-c           ReportCharacteristicsType-EventC,
    event-d           ReportCharacteristicsType-EventD,
    event-e           ReportCharacteristicsType-EventE,
    event-f           ReportCharacteristicsType-EventF,
    ...
}

ReportCharacteristicsType-EventA ::= SEQUENCE {
    measurementThreshold      ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
    IE-Extensions              ProtocolExtensionContainer { { ReportCharacteristicsType-EventA-ExtIEs} } OPTIONAL,
}

```

```

    }
    ...
}

ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventB ::= SEQUENCE {
    measurementThreshold          ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime     ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { ReportCharacteristicsType-EventB-ExtIEs} } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventC ::= SEQUENCE {
    measurementIncreaseThreshold  ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime        ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions                 ProtocolExtensionContainer { { ReportCharacteristicsType-EventC-ExtIEs} } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventD ::= SEQUENCE {
    measurementDecreaseThreshold  ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime        ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions                 ProtocolExtensionContainer { { ReportCharacteristicsType-EventD-ExtIEs} } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventE ::= SEQUENCE {
    measurementThreshold1        ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2        ReportCharacteristicsType-MeasurementThreshold OPTIONAL,
    measurementHysteresisTime     ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
    reportPeriodicity             ReportCharacteristicsType-ReportPeriodicity OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-ExtIEs} } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

ReportCharacteristicsType-EventF ::= SEQUENCE {
    measurementThreshold1      ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2      ReportCharacteristicsType-MeasurementThreshold OPTIONAL,
    measurementHysteresisTime  ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
    reportPeriodicity          ReportCharacteristicsType-ReportPeriodicity OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-ExtIEs } } OPTIONAL,
    ...
}

ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    rssi                        RSSI-Value-IncrDecrThres,
    transmitted-carrier-power   Transmitted-Carrier-Power-Value,
    acknowledged-ra-tries      Acknowledged-RA-Tries-Value,
    timeslot-iscp               TimeSlot-ISCP-Value-IncrDecrThres,
    sir                          SIR-Value-IncrDecrThres,
    sir-error                   SIR-Error-Value-IncrDecrThres,
    transmitted-code-power      Transmitted-Code-Power-Value-IncrDecrThres,
    rscp                         RSCP-Value-IncrDecrThres,
    ...
}

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
    rssi                        RSSI-Value,
    transmitted-carrier-power   Transmitted-Carrier-Power-Value,
    acknowledged-ra-tries      Acknowledged-RA-Tries-Value,
    timeslot-iscp               TimeSlot-ISCP-Value,
    sir                          SIR-Value,
    sir-error                   SIR-Error-Value,
    transmitted-code-power      Transmitted-Code-Power-Value,
    rscp                         RSCP-Value,
    ...
}

ReportCharacteristicsType-ScaledMeasurementChangeTime ::= INTEGER (1..600)
-- ReportCharacteristicsType-MeasurementChangeTime = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms

ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= INTEGER (1..600)
-- ReportCharacteristicsType-MeasurementHysteresisTime = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms

ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
    msec                        ReportPeriodicity-Scaledmsec,
    min                          ReportPeriodicity-Scaledmin
}

```

```
ReportPeriodicity-Scaledmsec ::= INTEGER (1..600)
-- ReportPeriodicity-msec = ReportPeriodicity * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms

ReportPeriodicity-Scaledmin ::= INTEGER (1..60)
-- Unit min, Range 1min .. 60min(hour), Step 1min

ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled,
    ...
}

LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
}

RL-ID ::= INTEGER (0..31)

RL-Set-ID          ::= INTEGER (0..31)

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

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

RSSI-Value ::= INTEGER(0..63)
-- According to mapping in 25.215/25.225

RSSI-Value-IncrDecrThres ::= INTEGER (0..62)

-- =====
-- S
-- =====

ScaledMaxAdjustmentPeriod          ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep             ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

ScramblingCodeChange ::= ENUMERATED {
    code-change,
    no-code-change,
    ...
}

ScramblingCodeWordNumber ::= INTEGER (0..255)
```

```
SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)
```

```
S-FieldLength ::= ENUMERATED {  
    v1,  
    v2,  
    ...  
}
```

```
-- to do, This parameter is present in NBAP tabular but not defined in IE(TS25.433v3.0.0)  
SFN ::= INTEGER
```

```
ShutdownTimer ::= INTEGER (1..3600)  
-- Unit sec
```

```
SIB-DeletionIndicator ::= ENUMERATED {  
    noDeletion,  
    deletion,  
    ...  
}
```

```
SIB-Originator ::= ENUMERATED {  
    nodeB,  
    cRNC,  
    ...  
}
```

```
SIR-Error-Value ::= INTEGER (0..125)
```

```
SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
```

```
SIR-Value ::= INTEGER (0..63)  
-- According to mapping in 25.215/25.225
```

```
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
```

```
SSDT-Cell-Identity ::= ENUMERATED {a, b, c, d, e, f, g, h}
```

```
SSDT-CellID-Length ::= ENUMERATED {  
    short,  
    medium,  
    long,  
    ...  
}
```

```
SSDT-Indication ::= ENUMERATED {  
    ssdt-active-in-the-UE,  
    ssdt-not-active-in-the-UE,  
    ...  
}
```

```
STTD-Indicator ::= ENUMERATED {
```

```
    active,
    inactive,
    ...
}

SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-Supported,
    sSDT-not-supported,
    ...
}

SyncCase ::= INTEGER (1..2)

-- =====
-- T
-- =====

T-Cell ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    v4,
    v5,
    v6,
    v7,
    v8,
    v9,
    ...
}

TDD-ChannelisationCode ::= ENUMERATED {
    chCode1div1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
```



```

    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
    ...
}

TDD-PhysicalChannelOffset ::= INTEGER (0..63)

TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    ...
}

TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors      SEQUENCE {
        betaC                 BetaCD,
        betaD                 BetaCD,
        refTFCNumber          RefTFCNumber OPTIONAL
    },
    computedGainFactors       RefTFCNumber
}

TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    ...
}

TFCI-Presence ::= ENUMERATED {
    present,
    not-present,
    ...
}

TFCI-SignallingMode ::= SEQUENCE {
    tFCI-SignallingOption     TFCI-SignallingMode-TFCI-SignallingOption,
    splitType                 TFCI-SignallingMode-SplitType OPTIONAL,
    -- This IE is only present if TFCI signalling option is split --
}

```

```
lengthOfTFCI2          TFCI-SignallingMode-LengthOfTFCI2          OPTIONAL,
-- This IE is only present if split type is logical --
IE-Extensions         ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs} } OPTIONAL,
...
}

TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)

TFCI-SignallingMode-SplitType ::= ENUMERATED {
    hard,
    logical,
    ...
}

TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    split,
    ...
}

TGD ::= INTEGER (0..3839)

TGL ::= INTEGER (3| 4| 7| 10| 14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

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

TimeSlot-ISCP-Value-IncrDecrThres ::= INTEGER (0..80)

TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
    ...
}

ToAWE ::= INTEGER (0..2559)
-- Unit ms

ToAWS ::= INTEGER (0..1279)
```

```

-- Unit ms

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

TFCS ::= SEQUENCE {
    dSCH CHOICE {
        no-Split-in-TFCI TFCS-TFCSList,
        split-in-TFCI SEQUENCE {
            transportFormatCombination-DCH TFCS-DCHList,
            signallingMethod CHOICE {
                tFCI-Range TFCS-TFC-MapingOnDSCHList,
                explicit TFCS-TFC-DSCHList
            }
        }
    },
    iE-Extensions ProtocolExtensionContainer { { TFCS-ExtIEs} } OPTIONAL,
    ...
}

TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
    SEQUENCE {
        cTFC TFCS-CTFC,
        tFC-Beta TransportFormatCombination-Beta OPTIONAL,
        iE-Extensions ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} } OPTIONAL,
        ...
    }

TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-CTFC ::= INTEGER (1..maxCTFC-1)

```

```

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
  SEQUENCE {
    cTFC                TFCS-CTFC-DCH,
    iE-Extensions       ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs} }    OPTIONAL,
    ...
  }

TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-CTFC-DCH ::= INTEGER (0..maxCTFC-DCH-1)

TFCS-TFC-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value    TFCS-MaxTFCI-field2-Value,
    cTFC-DSCH              TFCS-CTFC-DSCH,
    iE-Extensions          ProtocolExtensionContainer { { TFCS-TFC-MappingOnDSCHList-ExtIEs} }    OPTIONAL,
    ...
  }

TFCS-TFC-MappingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..511)

TFCS-CTFC-DSCH ::= INTEGER (0..maxCTFC-DSCH-1)

TFCS-TFC-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH              TFCS-CTFC-DSCH,
    iE-Extensions          ProtocolExtensionContainer { { TFCS-TFC-DSCHList-ExtIEs} }    OPTIONAL,
    ...
  }

TFCS-TFC-DSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet ::= SEQUENCE {
  dynamicParts            TransportFormatSet-DynamicPartList,
  semi-staticPart        TransportFormatSet-Semi-staticPart,
  iE-Extensions          ProtocolExtensionContainer { { TransportFormatSet-ExtIEs} }    OPTIONAL,
  ...
}

TransportFormatSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
  SEQUENCE {
    nrOfTransportBlocks      TransportFormatSet-NrOfTransportBlocks,
    transportBlockSize      TransportFormatSet-TransportBlockSize    OPTIONAL,
    -- This IE is only present if "Number of Transport Blocks" is greater than 0
    mode                    TransportFormatSet-ModeDP,
    iE-Extensions          ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs } }  OPTIONAL,
    ...
  }

TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
  SEQUENCE {
    transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval,
    iE-Extensions                ProtocolExtensionContainer { { TransmissionTimeIntervalList-ExtIEs } }  OPTIONAL,
    ...
  }

TransmissionTimeIntervalList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet-Semi-staticPart ::= SEQUENCE {
  transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval    OPTIONAL,
  -- This IE is mandatory if not defined as a dynamic parameter. Otherwise it is absent
  channelCoding                TransportFormatSet-ChannelCodingType,
  codingRate                   TransportFormatSet-CodingRate                    OPTIONAL,
  -- This IE is only present if channelCoding is 'convolutional' or 'turbo'
  rateMatchingAttribute        TransportFormatSet-RateMatchingAttribute,
  crc-Size                     TransportFormatSet-CRC-Size,
  mode                         TransportFormatSet-ModeSSP,
  iE-Extensions                ProtocolExtensionContainer { { TransportFormatSet-Semi-staticPart-ExtIEs } }  OPTIONAL,
  ...
}

TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
  no-coding,
  convolutional-coding,
  turbo-coding,
  ...
}

TransportFormatSet-CodingRate ::= ENUMERATED {

```

```
    half,  
    third,  
    ...  
}  
  
TransportFormatSet-CRC-Size ::= ENUMERATED {  
    v0,  
    v8,  
    v12,  
    v16,  
    v24,  
    ...  
}  
  
TransportFormatSet-ModeDP ::= CHOICE {  
    tdd          TransmissionTimeIntervalList,  
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent  
    ...  
}  
  
TransportFormatSet-ModeSSP ::= CHOICE {  
    tdd          TransportFormatSet-SecondInterleavingMode,  
    ...  
}  
  
TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..4095)  
  
TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)  
  
TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {  
    frame-related,  
    timeSlot-related,  
    ...  
}  
  
TransportFormatSet-TransmissionTimeInterval ::= ENUMERATED {  
    msec-10,  
    msec-20,  
    msec-40,  
    msec-80,  
    ...  
}  
  
TransportFormatSet-TransportBlockSize ::= INTEGER (1..5000)  
  
TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))  
  
TSTD-Indicator ::= ENUMERATED {  
    active,  
    inactive,  
    ...  
}
```

```
}

-- =====
-- U
-- =====

UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 1885.2MHz .. 2024.8MHz

UL-CapacityCredit ::= INTEGER (0..65535)

UL-DL-CompressedModeSelection ::= ENUMERATED {
    ul-only,
    dl-only,
    both,
    ...
}

UL-DeltaSIR ::= INTEGER (-60..100)
-- UL-DeltaSIR = DeltaSIR * 10
-- Unit dB, Range -6dB .. 10dB, Step 0.1dB

UL-DeltaSIR-after ::= INTEGER (-60..100)
-- UL-DeltaSIR = DeltaSIR * 10
-- Unit dB, Range -6dB .. 10dB, Step 0.1dB

UL-DPCCH-SlotFormat ::= INTEGER (0..5)

UL-SIR ::= INTEGER (-82..173)
-- According to mapping in 25.427

UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    ...
}

UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- UL-InterferenceLevel = InterferenceLevel * 10
-- Unit dBm, Range -128dBm .. -60dBm, Step 0.1dBm

UL-ScramblingCode ::= SEQUENCE {
    uL-ScramblingCodeNumber          UL-ScramblingCodeNumber,
    uL-ScramblingCodeLength          UL-ScramblingCodeLength,
    iE-Extensions                    ProtocolExtensionContainer { { UL-ScramblingCode-ExtIEs } } OPTIONAL,
    ...
}

UL-ScramblingCode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

UL-ScramblingCodeNumber ::= INTEGER (0..16777215)

UL-ScramblingCodeLength ::= ENUMERATED {  
    short,  
    long,  
    ...  
}

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

```
-- =====  
-- V  
-- =====  
  
-- =====  
-- W  
-- =====  
  
-- =====  
-- X  
-- =====  
  
-- =====  
-- Y  
-- =====  
  
-- =====  
-- Z  
-- =====
```

END



## 9.3.7 Constant Definitions for NBAP

```

-- *****
--
-- Constant definitions
--
-- *****

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

BEGIN

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

id-audit                INTEGER ::= 0
id-auditRequired        INTEGER ::= 1
id-blockResource        INTEGER ::= 2
id-cellDeletion         INTEGER ::= 3
id-cellReconfiguration  INTEGER ::= 4
id-cellSetup            INTEGER ::= 5
id-commonMeasurementFailure  INTEGER ::= 6
id-commonMeasurementInitiation  INTEGER ::= 7
id-commonMeasurementReport    INTEGER ::= 8
id-commonMeasurementTermination  INTEGER ::= 9
id-commonTransportChannelDelete  INTEGER ::= 10
id-commonTransportChannelReconfigure  INTEGER ::= 11
id-commonTransportChannelSetup  INTEGER ::= 12
id-compressedModeCancellation  INTEGER ::= 13
id-compressedModeCommit        INTEGER ::= 14
id-compressedModePreparation    INTEGER ::= 15
id-dedicatedMeasurementFailure  INTEGER ::= 16
id-dedicatedMeasurementInitiation  INTEGER ::= 17
id-dedicatedMeasurementReport    INTEGER ::= 18
id-dedicatedMeasurementTermination  INTEGER ::= 19
id-downlinkPowerControl        INTEGER ::= 20
id-errorIndication             INTEGER ::= 21
id-physicalSharedChannelReconfiguration  INTEGER ::= 37
id-privateMessage              INTEGER ::= 22
id-radioLinkAddition           INTEGER ::= 23
id-radioLinkDeletion           INTEGER ::= 24
id-radioLinkFailure            INTEGER ::= 25
id-radioLinkRestoration        INTEGER ::= 26
id-radioLinkSetup              INTEGER ::= 27
id-resourceStatusIndication     INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation  INTEGER ::= 29

```

```

id-synchronisedRadioLinkReconfigurationCommit      INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation  INTEGER ::= 31
id-systemInformationUpdate                         INTEGER ::= 32
id-unblockResource                                INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration          INTEGER ::= 34

```

```

-- *****
--
-- Extension constants
--
-- *****

```

```

maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs         INTEGER ::= 65535

```

```

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

```

```

maxNrOfCodes          INTEGER ::= 10
maxNrOfCmpatterns     INTEGER ::= 8
maxNrOfDLCodes        INTEGER ::= 10
maxNrOfErrors         INTEGER ::= 10
maxNrOfTFs            INTEGER ::= 10
maxNrOfTFCs           INTEGER ::= 10
maxNrOfRLs            INTEGER ::= 10
maxNrOfRLSets        INTEGER ::= 10
maxNrOfDPCHs          INTEGER ::= 10
maxNrOfSCCPCHs       INTEGER ::= 10
maxNrOfPRACHs        INTEGER ::= 10
maxNrOfDCHs          INTEGER ::= 10
maxNrOfDSCHs         INTEGER ::= 10
maxNrOfFACHs         INTEGER ::= 10
maxNrOfCCTrCHs       INTEGER ::= 10
maxNrOfPDSCHs        INTEGER ::= 10
maxNrOfPUSCHs        INTEGER ::= 10
maxNrOfPDSCHSets     INTEGER ::= 10
maxNrOfPUSCHSets     INTEGER ::= 10
maxNrOfULTSs         INTEGER ::= 15
maxNrOfUSCHs         INTEGER ::= 10
maxSF                 INTEGER ::= 10
maxCellInNodeB       INTEGER ::= 10
maxCCPinNodeB        INTEGER ::= 10
maxCTFC-1            INTEGER ::= 10
maxLocalCellInNodeB  INTEGER ::= 10
maxRACHCell          INTEGER ::= 10
maxPRACHCell         INTEGER ::= 10

```

```

maxSCCPCHCell          INTEGER ::= 10
maxSCPICHCell          INTEGER ::= 10
maxTTI-count           INTEGER ::= 10
maxIBSEG               INTEGER ::= 10
maxIB                  INTEGER ::= 10
maxFACHCell            INTEGER ::= 10
maxRateMatching        INTEGER ::= 10
maxCodeNrComp-1       INTEGER ::= 10
maxNrOfCodeGroups      INTEGER ::= 10
maxNrOfTFCIGroups      INTEGER ::= 10
maxNrOfTFCI1Combs      INTEGER ::= 10
maxNrOfTFCI2Combs      INTEGER ::= 10
maxCTFC-DCH-1          INTEGER ::= 10
maxCTFC-DSCH-1         INTEGER ::= 10
maxNrOfSF               INTEGER ::= 8
    
```

```

-- *****
--
-- IEs
--
-- *****
    
```

```

id-AICH-InformationItem-AuditRsp          INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd  INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD  INTEGER ::= 2
id-AllRLItem-DM-Rprt                       INTEGER ::= 3
id-AllRLItem-DM-Rsp                         INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                    INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                     INTEGER ::= 6
id-BCH-InformationItem-AuditRsp             INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd     INTEGER ::= 8
id-BCCH-ModificationTime                    INTEGER ::= 9
id-BlockingPriorityIndicator                 INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD              INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD              INTEGER ::= 12
id-Cause                                    INTEGER ::= 13
id-CCP-InformationItem-AuditRsp             INTEGER ::= 14
id-CCP-InformationList-AuditRsp             INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd     INTEGER ::= 16
id-Cell-InformationItem-AuditRsp            INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd    INTEGER ::= 18
id-Cell-InformationList-AuditRsp            INTEGER ::= 19
id-CellItem-CM-Rprt                         INTEGER ::= 20
id-CellItem-CM-Rqst                         INTEGER ::= 21
id-CellItem-CM-Rsp                          INTEGER ::= 22
id-CellParameterID                          INTEGER ::= 23
id-CFN                                       INTEGER ::= 24
id-C-ID                                      INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD      INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD          INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD          INTEGER ::= 28
    
```

id-CombiningItem-RL-SetupFailureFDD	INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD	INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt	INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst	INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp	INTEGER ::= 33
id-CommonMeasurementType	INTEGER ::= 34
id-CommonPhysicalChannelID	INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
id-CommonTransportChannelType-CTCH-SetupRsp	INTEGER ::= 39
id-CommunicationControlPortID	INTEGER ::= 40
id-CM-PatternInformationItem-CompressedModePrep	INTEGER ::= 41
id-CM-PatternInformationList-CompressedModePrep	INTEGER ::= 42
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddListIE-RL-ReconfReady	INTEGER ::= 46
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 47
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 60
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 61
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType	INTEGER ::= 66
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 71
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 74
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 75
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79

id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 110
id-DSCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 111
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-DSCH-SetupListIE-RL-ReconfReady	INTEGER ::= 114
id-DSCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 115
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 119
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
<del>id-Limited-power-increase-information-Cell-SetupRqstFDD</del>	<del>INTEGER ::= xxx</del>
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-MaxAdjustmentPeriod	INTEGER ::= 129

id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD	INTEGER ::= 142
id-NodeB-CommunicationContextID	INTEGER ::= 143
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153
id-PCH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 154
id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 157
id-PCH-InformationItem-AuditRsp	INTEGER ::= 158
id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 159
id-PD	INTEGER ::= 160
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 165
id-PICH-InformationItem-AuditRsp	INTEGER ::= 166
id-PICH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 167
id-PICH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 168
id-PowerAdjustmentType	INTEGER ::= 169
id-PRACH-InformationItem-AuditRsp	INTEGER ::= 170
id-PRACH-InformationItem-ResourceStatusInd	INTEGER ::= 171
id-PRACHItem-CTCH-SetupRqstFDD	INTEGER ::= 172
id-PRACHItem-CTCH-SetupRqstTDD	INTEGER ::= 173
id-PRACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 174
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	INTEGER ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 180

id-PrimaryScramblingCode	INTEGER ::= 181
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 182
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 183
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 189
id-RACH-InformationItem-AuditRsp	INTEGER ::= 190
id-RACH-InformationItem-ResourceStatusInd	INTEGER ::= 191
id-RACHItem-CTCH-SetupRsp	INTEGER ::= 192
id-RACHItem-CM-Rprt	INTEGER ::= 193
id-RACHItem-CM-Rqst	INTEGER ::= 194
id-RACHItem-CM-Rsp	INTEGER ::= 195
id-RACH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	INTEGER ::= 197
id-ReportCharacteristics	INTEGER ::= 198
id-Reporting-Object-RL-FailureInd	INTEGER ::= 199
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 200
id-RL-ID	INTEGER ::= 201
id-RL-InformationItem-DM-Rprt	INTEGER ::= 202
id-RL-InformationItem-DM-Rqst	INTEGER ::= 203
id-RL-InformationItem-DM-Rsp	INTEGER ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	INTEGER ::= 205
id-RL-informationItem-RL-DeletionRqst	INTEGER ::= 206
id-RL-InformationItem-RL-FailureInd	INTEGER ::= 207
id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 212
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 213
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 215
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 221
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 227
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 229
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 230
id-RLItem-DM-Rprt	INTEGER ::= 231

id-RLItem-DM-Rqst	INTEGER ::= 232
id-RLItem-DM-Rsp	INTEGER ::= 233
id-RLItem-RL-FailureInd	INTEGER ::= 234
id-RLItem-RL-RestoreInd	INTEGER ::= 235
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 236
id-RL-ReconfigurationFailureList-RL-ReconfFailure	INTEGER ::= 237
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 238
id-RL-SetItem-DM-Rqst	INTEGER ::= 239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 266
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 267
id-SFN	INTEGER ::= 268
id-ShutdownTimer	INTEGER ::= 269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273
id-SyncCase	INTEGER ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 275
id-T-Cell	INTEGER ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	INTEGER ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
id-TransmissionDiversityApplied	INTEGER ::= 279
id-UARFCNforNt	INTEGER ::= 280
id-UARFCNforNd	INTEGER ::= 281
id-UARFCNforNu	INTEGER ::= 282



id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 283
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 286
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 287
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 292
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-USCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 311
id-USCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 312
id-USCH-SetupListIE-RL-ReconfReady	INTEGER ::= 313
id-USCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 314

END

## CHANGE REQUEST

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

**25.433 CR 107r3**

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

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

list expected approval meeting # here



for approval   
For information

strategic   
non-strategic  (for SMG use only)

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

**Proposed change affects:**

(at least one should be marked with an X)

(U)SIM     ME     UTRAN / Radio     Core Network

**Source:**

**R-WG3**

**Date:**

**May 2000**

**Subject:**

**UL Power Clarification for Node B generated SIB in TDD**

**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	<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:**

The Node B should have the ability to locally generate the SIB block for Uplink power.

**Clauses affected:**

**8.3.2.2, 8.3.5.2, 9.1.41.2, 9.1.46.2, 9.3.3, 9.3.7**

**Other specs affected:**

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

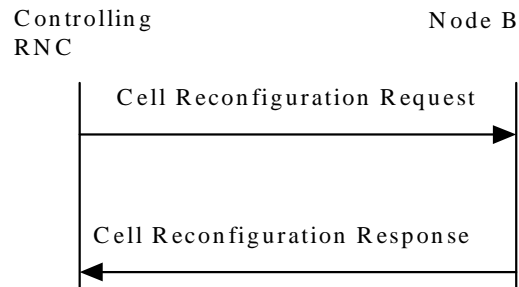
**Other comments:**

## 8.2.13 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 11: Cell Reconfiguration procedure: Successful Operation**

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 one or more *Secondary CPICH Information* IE groups the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *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.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *Constant Value* IE's, the Node B shall use these values when generating the appropriate SIB.]

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.

## 9.1.23 CELL SETUP REQUEST

## 9.1.23.1 FDD Message

IE/Group Name	Presence	Range	IE type and Reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
Local Cell Id	M				YES	reject
C-Id	M				YES	reject
Configuration Generation Id	M				YES	reject
T Cell	M				YES	reject
UARFCN	M			Corresponds to Nu [TS25.104]	YES	reject
UARFCN	M			Corresponds to Nd [TS25.104]		
Maximum transmission power	M				YES	reject
Primary scrambling code	M				YES	reject
<b>Primary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
>Primary SCH Power	M		DL Power		–	
>TSTD Indicator	M				–	
<b>Secondary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
>Secondary SCH power	M		DL Power		–	
>TSTD Indicator	M				–	
<b>Primary CPICH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
>Primary CPICH power	M				–	
>Transmit Diversity Indicator	M				–	
<b>Secondary CPICH Information</b>		0..<maxSC PICHCell>			YES	reject
>Common Physical Channel ID	M				–	
>DL Scrambling code	M				–	
>FDD DL Channelisation Code Number	M				–	
>Secondary CPICH Power	M		DL Power		–	
>Transmit Diversity Indicator	M				–	
<b>Primary CCPCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
<b>&gt;BCH Information</b>		1			–	
>>Common Transport Channel ID	M				–	
>>BCH Power	M		DL Power		–	
>STTD Indicator	M				–	

Range bound	Explanation
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

## 9.1.23.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
Local Cell Id	M				YES	reject
C-Id	M				YES	reject
Configuration Generation Id	M				YES	reject
UARFCN	M			Corresponds to Nt [TS25.105]	YES	reject
Cell Parameter ID	M				YES	reject
Maximum Transmission Power	M				YES	reject
Transmission Diversity Applied	M			On DCHs	YES	reject
Sync Case	M				YES	reject
<u>DPCH Constant Value</u>	<u>M</u>		<u>Constant Value</u>		<u>YES</u>	<u>reject</u>
<u>PUSCH Constant Value</u>	<u>M</u>		<u>Constant Value</u>		<u>YES</u>	<u>reject</u>
<u>PRACH Constant Value</u>	<u>M</u>		<u>Constant Value</u>		<u>YES</u>	<u>reject</u>
<b>SCH Information</b>		1			YES	Reject
>Common physical channel ID	M				–	
>CHOICE <i>Sync Case</i>						
>>Case 1					YES	Reject
>>>Time Slot	M				–	
>>Case 2					YES	reject
>>>SCH Time Slot	M				–	
>SCH Power	M		DL Power		–	
>TSTD Indicator	M				–	
<b>PCCPCH Information</b>		1			YES	reject
>Common physical channel ID	M				–	
>TDD Physical Channel Offset	M				–	
>Repetition Period	M				–	
>Repetition Length	M				–	
>PCCPCH Power	M				–	
>Block STTD Indicator	M				–	
<b>Time Slot Configuration</b>		1 .. 15			GLOBAL	reject
>Time Slot	M				–	
>Time Slot Status	M				–	
>Time Slot Direction	M				–	

## 9.1.24 CELL SETUP RESPONSE

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

## 9.1.25 CELL SETUP FAILURE

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

## 9.1.26 CELL RECONFIGURATION REQUEST

### 9.1.26.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
C-ID	M				YES	reject
Configuration Generation Id	M				YES	reject
Maximum transmission power	O				YES	reject
<b>Primary SCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M				–	
>Primary SCH power	M		DL Power		–	
<b>Secondary SCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M				–	
>Secondary SCH power	M		DL Power		–	
<b>Primary CPICH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M				–	
>Primary CPICH power	M				–	
<b>Secondary CPICH Information</b>		0..<maxSC PICHCell>			YES	reject
>Common Physical Channel ID	M				–	
>Secondary CPICH Power	M		DL Power		–	
<b>Primary CCPCH Information</b>		0,1			YES	reject
> <b>BCH Information</b>		1			–	
>>Common Transport Channel ID	M				–	
>>BCH Power	M		DL Power		–	

Range bound	Explanation
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

## 9.1.26.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
C-Id	M				YES	reject
Configuration Generation ID	M				YES	reject
<b>SCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M				–	
>SCH Power	M		DL Power		–	
<b>PCCPCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M				–	
>PCCPCH Power	M				–	
Maximum Transmission Power	O				YES	reject
<u>DPCH Constant Value</u>	<u>O</u>		<u>Constant Value</u>		<u>YES</u>	<u>reject</u>
<u>PUSCH Constant Value</u>	<u>O</u>		<u>Constant Value</u>		<u>YES</u>	<u>reject</u>
<u>PRACH Constant Value</u>	<u>O</u>		<u>Constant Value</u>		<u>YES</u>	<u>reject</u>
<b>Time Slot Configuration</b>		1..15			GLOBAL	reject
>Time Slot	M				–	
>Time Slot Status	M				–	
>Time Slot Direction	M				–	

### 9.2.3.x Constant Value

The Constant Value is the power margin used by a UE to set the proper uplink power for a DCH, USCH, or a RACH.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Constant Value</u>			<u>INTEGER</u> <u>(-10...10)</u>	<u>Unit dB</u> <u>Granularity 1 dB.</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
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCH-CH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    ConstantValue,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,

```

DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-ScramblingCode, DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,  
PowerResumeMode,  
PRACH-Midamble,

PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,

```
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
UL-DPCCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
USCH-ID
FROM NBAP-IEs

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

id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersList-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRLItem-Set-DM-Rprt,
id-AllRLItem-Set-DM-Rsp,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
id-C-ID,
```

id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,

id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DPCHConstant,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,

id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstFDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstFDD,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHConstant,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,

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



id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,

id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,  
id-USCH-ModifyListIE-RL-ReconfReady,  
id-USCH-ModifyListIE-RL-ReconfRsp,  
id-USCH-SetupListIE-RL-ReconfReady,  
id-USCH-SetupListIE-RL-ReconfRsp,

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

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

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

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

```
SCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
```

```

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

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

SyncCaseIndicator-Cell-SetupRqstTDD-PSCH ::= ProtocolIE-Container {{ SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH }}

SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH NBAP-PROTOCOL-IES ::= {
    { ID id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH    CRITICALITY reject    TYPE SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH    PRESENCE mandatory
    },
    ...
}

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

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

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

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

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

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

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

Case2Item-Cell-SetupRqstTDD ::= SEQUENCE {

```

```

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

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

PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    repetitionPeriod            RepetitionPeriod,
    repetitionLength            RepetitionLength,
    pCCPCH-Power                PCCPCH-Power,
    blockSTTD-Indicator         BlockSTTD-Indicator,
    iE-Extensions              ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

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

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

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

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

```

```

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

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

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

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

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

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

PCCPCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {

```

```

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

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

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

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

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

```

## 9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

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

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

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

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

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

AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete,

```



```
    ...
}

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

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
}

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..2047)
-- Time = BCCH-ModificationTime * 2
-- Range 0 to 4094, step 2
-- All even SFN values are allowed

BindingID ::= OCTET STRING (SIZE (1..4, ...))

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

BlockSTTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
```

```
BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2),
    ...
}

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

Cause ::= CHOICE {
    radioNetwork          CauseRadioNetwork,
    transport             CauseTransport,
    protocol              CauseProtocol,
    misc                  CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

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

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scramblingcode-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAlocated,
    nodeB-Resources-unavailable,
    insufficient-physical-channel-resources,
    measurement-not-supported-for-the-object,
    macrodiversity-combining-not-possible,
    reconfiguration-not-allowed,

```

```
    requested-configuration-not-supported,
    synchronisation-failure,
    sIB-Origination-in-Node-B-not-Supported,
    unspecified,
    priority-transport-channel-established,
    ...
}

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

CCTrCH-ID ::= INTEGER (0..15)

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

CFNOffset ::= INTEGER (0..255)

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

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

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

CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iscp,
    ...
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power    Transmitted-Carrier-Power-Value,
    rssi                          RSSI-Value,
    acknowledged-ra-tries        Acknowledged-RA-Tries-Value,
    time-slot-iscp                TimeSlot-ISCP-Value,
    ...
}
```

```

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

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

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

ConstantValue ::= INTEGER (-10..10)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB

CriticalityDiagnostics ::= SEQUENCE {
    procedureCode          ProcedureCode          OPTIONAL,
    triggeringMessage      TriggeringMessage      OPTIONAL,
    criticalityResponse    Criticality             OPTIONAL,
    transactionID         TransactionID          OPTIONAL,
    iEsCriticalityResponses CriticalityDiagnostics-IE-List,
    iE-Extensions         ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
SEQUENCE {
    criticalityResponse Criticality,
    iE-ID                ProtocolIE-ID,
    repetitionNumber    RepetitionNumber          OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

```



```

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp          INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd  INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD INTEGER ::= 2
id-AllRLItem-DM-Rprt                      INTEGER ::= 3
id-AllRLItem-DM-Rsp                      INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                  INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                  INTEGER ::= 6
id-BCH-InformationItem-AuditRsp          INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd  INTEGER ::= 8
id-BCCH-ModificationTime                 INTEGER ::= 9
id-BlockingPriorityIndicator              INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD           INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD           INTEGER ::= 12
id-Cause                                  INTEGER ::= 13
id-CCP-InformationItem-AuditRsp          INTEGER ::= 14
id-CCP-InformationList-AuditRsp          INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd  INTEGER ::= 16
id-Cell-InformationItem-AuditRsp          INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd  INTEGER ::= 18
id-Cell-InformationList-AuditRsp          INTEGER ::= 19
id-CellItem-CM-Rprt                      INTEGER ::= 20
id-CellItem-CM-Rqst                      INTEGER ::= 21
id-CellItem-CM-Rsp                        INTEGER ::= 22
id-CellParameterID                       INTEGER ::= 23
id-CFN                                    INTEGER ::= 24
id-C-ID                                   INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD   INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD       INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD       INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD      INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD          INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt    INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst    INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp     INTEGER ::= 33
id-CommonMeasurementType                  INTEGER ::= 34
id-CommonPhysicalChannelID               INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD INTEGER ::= 38
id-CommonTransportChannelType-CTCH-SetupRsp INTEGER ::= 39
id-CommunicationControlPortID            INTEGER ::= 40
id-CM-PatternInformationItem-CompressedModePrep INTEGER ::= 41
id-CM-PatternInformationList-CompressedModePrep INTEGER ::= 42
id-ConfigurationGenerationID             INTEGER ::= 43
id-CRNC-CommunicationContextID           INTEGER ::= 44

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id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddListIE-RL-ReconfReady	INTEGER ::= 46
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 47
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 60
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 61
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType	INTEGER ::= 66
id-DedicatedMeasurementObjectType-DM-Rprr	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 71
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 74
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 75
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
<del>id-DPCHConstant</del>	<del>INTEGER ::= 87</del>
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= <del>888</del>
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= <del>898</del>
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= <del>9089</del>
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= <del>910</del>
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= <del>921</del>
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= <del>932</del>
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= <del>943</del>
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= <del>954</del>

id-DSCH-ID	INTEGER ::= 965
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 976
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 987
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 998
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 10099
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 1010
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 1021
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 1032
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 1043
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 1054
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 1065
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 1076
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 1087
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 1098
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 11099
id-DSCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 1110
id-DSCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 1121
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 1132
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 1143
id-DSCH-SetupListIE-RL-ReconfReady	INTEGER ::= 1154
id-DSCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 1165
id-FACH-InformationItem-AuditRsp	INTEGER ::= 1176
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 1187
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 1198
id-FACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 12019
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 1210
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 1221
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 1232
id-IndicationType-ResourceStatusInd	INTEGER ::= 1243
id-Local-Cell-ID	INTEGER ::= 1254
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 1265
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 1276
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 1287
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 1298
id-MaxAdjustmentPeriod	INTEGER ::= 13099
id-MaxAdjustmentStep	INTEGER ::= 1310
id-MaximumTransmissionPower	INTEGER ::= 1321
id-MeasurementFilterCoefficient	INTEGER ::= 1332
id-MeasurementID	INTEGER ::= 1343
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 1354
id-NodeBInformation-AuditRep	INTEGER ::= 1365
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 1376
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 1387
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 1398
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 14099
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 1410
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD	INTEGER ::= 1421
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD	INTEGER ::= 1432
id-NodeB-CommunicationContextID	INTEGER ::= 1443
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 1454
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 1465



id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 1476
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 1487
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 1498
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 15049
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 1510
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 1521
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 1532
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 1543
id-PCH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 1554
id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 1565
id-PCH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 1576
id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 1587
id-PCH-InformationItem-AuditRsp	INTEGER ::= 1598
id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 16059
id-PD	INTEGER ::= 1610
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 1621
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 1632
id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 1643
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 1654
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 1665
id-PICH-InformationItem-AuditRsp	INTEGER ::= 1676
id-PICH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 1687
id-PICH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 1698
id-PowerAdjustmentType	INTEGER ::= 17069
id-PRACH-InformationItem-AuditRsp	INTEGER ::= 1710
id-PRACH-InformationItem-ResourceStatusInd	INTEGER ::= 1721
<del>id-PRACHConstant</del>	<del>INTEGER ::= 173</del>
id-PRACHItem-CTCH-SetupRqstFDD	INTEGER ::= 1742
id-PRACHItem-CTCH-SetupRqstTDD	INTEGER ::= 1753
id-PRACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 1764
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 1775
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	INTEGER ::= 1786
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 1797
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 18078
id-PrimarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 18179
id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 1820
id-PrimaryScramblingCode	INTEGER ::= 1831
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 1842
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 1853
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 1864
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 1875
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 1886
<del>id-PUSCHConstant</del>	<del>INTEGER ::= 189</del>
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 19087
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 19188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 19289
id-RACH-InformationItem-AuditRsp	INTEGER ::= 19390
id-RACH-InformationItem-ResourceStatusInd	INTEGER ::= 19491
id-RACHItem-CTCH-SetupRsp	INTEGER ::= 19592
id-RACHItem-CM-Rprt	INTEGER ::= 19693
id-RACHItem-CM-Rqst	INTEGER ::= 19794

id-RACHItem-CM-Rsp	INTEGER ::= 19895
id-RACH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 19996
id-RACH-ParameterItem-CTCH-SetupRqstTDD	INTEGER ::= 200197
id-ReportCharacteristics	INTEGER ::= 201198
id-Reporting-Object-RL-FailureInd	INTEGER ::= 202199
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 20300
id-RL-ID	INTEGER ::= 2041
id-RL-InformationItem-DM-Rprt	INTEGER ::= 2052
id-RL-InformationItem-DM-Rqst	INTEGER ::= 2063
id-RL-InformationItem-DM-Rsp	INTEGER ::= 2074
id-RL-InformationItem-RL-AdditionRqstFDD	INTEGER ::= 2085
id-RL-informationItem-RL-DeletionRqst	INTEGER ::= 2096
id-RL-InformationItem-RL-FailureInd	INTEGER ::= 21007
id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 21108
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 21209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 2130
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 2141
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 2152
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 2163
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 2174
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 2185
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 2196
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 22017
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 22118
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 22219
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 2230
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 2241
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 2252
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 2263
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 2274
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 2285
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 22926
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 23027
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 23128
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 23229
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 23330
id-RLItem-DM-Rprt	INTEGER ::= 2341
id-RLItem-DM-Rqst	INTEGER ::= 23532
id-RLItem-DM-Rsp	INTEGER ::= 23633
id-RLItem-RL-FailureInd	INTEGER ::= 23734
id-RLItem-RL-RestoreInd	INTEGER ::= 23835
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 23936
id-RL-ReconfigurationFailureList-RL-ReconfFailure	INTEGER ::= 24037
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 24138
id-RL-SetItem-DM-Rqst	INTEGER ::= 24239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 2430
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 2441
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 2452
id-RL-SetItem-DM-Rprt	INTEGER ::= 2463
id-RL-SetItem-DM-Rsp	INTEGER ::= 24744
id-RL-SetItem-RL-FailureInd	INTEGER ::= 2485

id-RL-SetItem-RL-RestoreInd	INTEGER ::= 2496
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 25047
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 25148
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 25249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 2530
id-SCH-InformationItem-AuditRsp	INTEGER ::= 2541
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 2552
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 2563
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id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 2585
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 2596
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 26057
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 26158
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 26259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 2630
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 2641
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 2652
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 2663
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 2674
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 2685
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 2696
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 27067
id-SFN	INTEGER ::= 27168
id-ShutdownTimer	INTEGER ::= 27269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 2730
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 2741
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 2752
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 2763
id-SyncCase	INTEGER ::= 2774
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 2785
id-T-Cell	INTEGER ::= 2796
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	INTEGER ::= 28077
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 28178
id-TransmissionDiversityApplied	INTEGER ::= 28279
id-UARFCNforNt	INTEGER ::= 2830
id-UARFCNforNd	INTEGER ::= 2841
id-UARFCNforNu	INTEGER ::= 2852
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 2863
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 2874
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 2885
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 2896
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 29077
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 29188
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 29289
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 29390
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 29491
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 2952
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 2963
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 2974
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 2985
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 2996

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id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= <del>301298</del>
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= <del>302299</del>
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= <del>3030</del>
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= <del>3041</del>
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= <del>3052</del>
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= <del>3063</del>
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= <del>3074</del>
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= <del>3085</del>
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= <del>3096</del>
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= <del>3107</del>
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= <del>31108</del>
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= <del>31209</del>
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= <del>3130</del>
id-USCH-ModifyListIE-RL-ReconfReady	INTEGER ::= <del>3141</del>
id-USCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= <del>3152</del>
id-USCH-SetupListIE-RL-ReconfReady	INTEGER ::= <del>3163</del>
id-USCH-SetupListIE-RL-ReconfRsp	INTEGER ::= <del>3174</del>

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 117 r2**

Current Version: **3.1.0.**

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

↑ CR number as allocated by MCC support team

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

list expected approval meeting # here ↑

for approval   
for information

Strategic   
non-strategic  (for SMG use only)

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

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

**Source:** R-WG3 **Date:** May , 2000

**Subject:** Updated CR on power control behaviour specification in NBAP

**Work item:**

**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:** Based on the discussions in the WG1/WG3 power control ad-hoc on Tdoc R3-001090, this contribution proposes the resulting changes to NBAP. In addition, it is clarified that in R99, the DPC mode is always 0.

**Clauses affected:** 8.2.17.2, 8.3.2.1

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

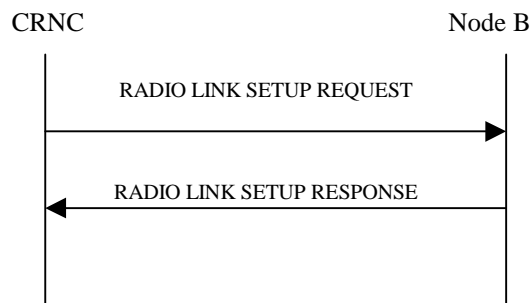
**Other comments:**

## 8.2.17 Radio Link Setup

### 8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

### 8.2.17.2 Successful Operation



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

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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

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

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE indicates, "may be combined with already existing RLs", then Node B shall decide for either of the alternatives. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall

- Treat all DCHs with the same value of this IE as a set of co-ordinated DCHs and
- Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

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

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[FDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code of the RL until either UL synchronisation is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], chapter 5.2.1.2) with DPC MODE=0 and the power control procedure (see 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code and on each Time Slot of the RL until the UL synchronisation is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], chapter 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

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

~~[FDD— For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]~~

~~[FDD— For all RLS having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]~~

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLS having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

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

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

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

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

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

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

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

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in 25.427.

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



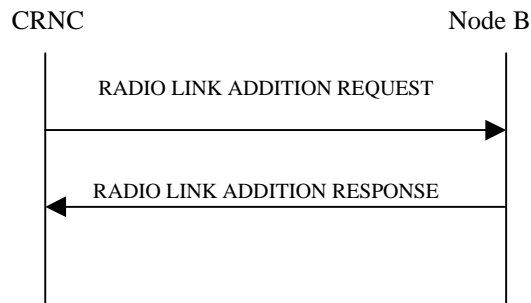
## 8.3.1 Radio Link Addition

### 8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B communication context for this UE in the Node B.

The Radio Link Addition procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.1.2 Successful Operation



**Figure: 28 Radio Link Addition procedure: Successful Operation**

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

Upon reception, the Node B shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The *Diversity Control Field* IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not. If the *Diversity Control Field* IE indicates, "may be combined with already existing RLs", then Node B shall decide for any of the alternatives. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

**[FDD –** If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL Channelisation Code of the RL when starting transmission until either UL synchronisation is achieved for the RLS or a DL POWER REQUEST message is received. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], chapter 5.2.1.2) with DPC MODE=0 and the downlink power control procedure (see 8.3.7).]

**[TDD –** If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL Channelisation Code and on each Time Slot of the RL when starting transmission until the UL synchronisation is achieved for the RL. If no Initial DL Transmission power IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], chapter 4.2.3.3).]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and never transmit with a higher power on any DL Channelisation Code of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied.

If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL power* IE, the Node B shall store this value and never transmit with a lower power on any DL Channelisation Code of the RL. If no *Minimum DL power* IE is included, any Minimum DL power stored for already existing RLs for this UE shall be applied.

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE the Node B may activate SSDT for the concerned new RL, with the indicated cell identity used for that RL.]

If all requested RLs are successfully added, the Node B shall respond with a RADIO LINK ADDITION RESPONSE message.

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

In the case of combining an RL with existing RL(s) the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

In the case of not combining an RL with existing RL(s), the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the Node B shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the coordinated DCHs.

[FDD - Irrespective of SSdT activation, the Node B shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSdT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSdT activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSdT capability is supported for this RL, SSdT is activated in the Node B.]

After sending of the RADIO LINK ADDITION RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in 25.427.

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

## 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 119r2**

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**  
*list expected approval meeting # here ↑*

for approval   
for information

strategic  (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:**  
*(at least one should be marked with an X)*

(U)SIM     ME     UTRAN / Radio     Core Network

**Source:** R-WG3

**Date:** May, 2000

**Subject:** Change of definition of the Quality Estimation (QE) for TDD

**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:**

In WG1 the BER definition has been changed to Transport channel BER and Physical channel BER.

This CR updates therefore the handling of the QE for TDD in the same way as already updated for FDD.

Changes within revised version CR119r1:

\* references have been updated indicating the reference number

Changes within revised version CR119r2:

\* BER handling for TDD same as for FDD, i.e. if no transport channel BER is available, the QE is the Physical channel BER.

**Clauses affected:**

2, 8.2.17.2, 8.2.17.3, 8.3.2.2, 8.3.2.3, 8.3.5.2, 8.3.5.3, 9.1.35.2, 9.1.41.2, 9.1.46.2, 9.2.1.x, 9.2.2.58, 9.3.3, 9.3.4

**Other specs**

Other 3G core specifications

→ List of CRs: 25.427 3.2.0 CR-023,  
25.423 3.1.0 CR-103,  
25.435 3.2.0 CR-018

**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:**



help.doc

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

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

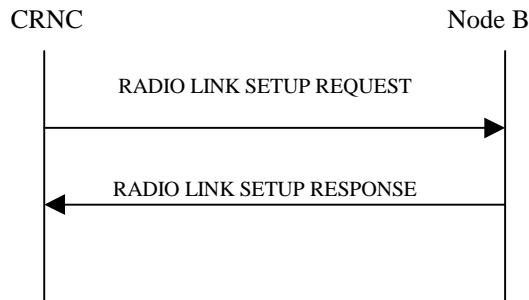
- [1] 3G TS 25.401: "UTRAN Overall Description".
- [2] 3G TS 25.426: "UTRAN  $I_{ur}$  and  $I_{ub}$  Interface Data Transport & Transport Signalling for DCH Data Streams".
- [3] CCITT Recommendation X.731 (01/92): "Information Technology – Open Systems Interconnection – Systems Management: State Management function".
- [4] 3G TS 25.215: "Physical layer – Measurements (FDD)".
- [5] 3G TS 25.225: "Physical layer – Measurements (TDD)".
- [6] 3G TS 25.430: "UTRAN  $I_{ub}$  General Aspect and Principle".
- [7] 3G TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [8] 3G TS 25.212: "Multiplexing and channel coding (FDD)".
- [9] 3G TS 25.213: "Spreading and modulation (FDD)".
- [10] 3G TS 25.214: "Physical layer procedures (FDD)".
- [11] X.691, (12/94) "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [12] X.680, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [13] X.681, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Information object specification"
- [14] 3G TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- [15] 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [16] [3G TS 25.427: "UTRAN  \$I\_{ur}\$  and  \$I\_{ub}\$  Interface User Plane Protocols for DCH Data Streams".](#)
- [17] [3G TS 25.435: "UTRAN  \$I\_{ub}\$  Interface: User Plane Protocols for Common Transport Channel Data Streams".](#)

## 8.2.17 Radio Link Setup

### 8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

### 8.2.17.2 Successful Operation



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

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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

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

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE indicates, "may be combined with already existing RLs", then Node B shall decide for either of the alternatives. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall

- Treat all DCHs with the same value of this IE as a set of co-ordinated DCHs and
- Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration

~~[FDD—For DCHs with a unique or no “DCH Combination Ind” and the *QE-Selector* IE set to “selected-DCH”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [1625.427]. If the *QE-Selector* is set to “non-selected-DCH”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [1625.427]].~~

~~[FDD—For DCHs with a unique or no “DCH Combination Ind” and the *QE-Selector* IE set to “selected”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].~~

~~[FDD—For DCHs with the same “DCH Combination Ind” the Transport channel BER from the DCH with the *QE-Selector* IE set to “selected-DCH” shall be used for the QE in the UL data frames, ref. [1625.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [1625.427]].~~

all DCHs have *QE-Selector* IE set to "non-selected-~~DCH~~" the Physical channel BER shall be used for the QE, ref. [1625.427].

~~[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [25.427].]~~

[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [17]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [1725.435]].

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

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

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

The Node B shall start the DL transmission using the initial DL power specified in the message. The DL power can then vary accordingly to the fast power control, but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.

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

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

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

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

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

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

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

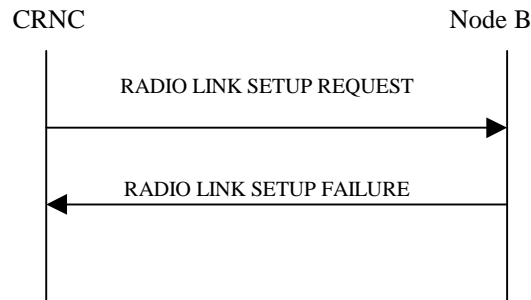
[TDD - The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

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

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16]25.427.

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

### 8.2.17.3 Unsuccessful Operation



**Figure 2: Radio Link Setup procedure: Unsuccessful Operation**

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause IE*.

If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.

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

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

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

### 8.2.17.4 Abnormal Conditions

-

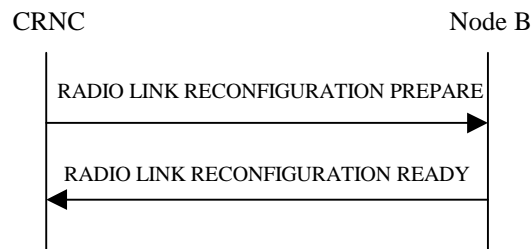
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a Node B.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.2.2 Successful Operation



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

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH to be modified, the Node B shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH to be modified, the Node B shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH to be modified, the Node B shall apply the new ToAWE in the user plane for this DCH in the new configuration.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.



If the RADIO LINK RECONFIGURATION PREPARE message includes the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall.

1. treat all DCHs with the same value of this IE as a set of coordinated DCHs and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration

~~[FDD—For DCHs with a unique or no “DCH Combination Ind” and the *QE-Selector* IE set to “selected-DCH”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [1625.427]. If the *QE-Selector* is set to “non-selected-DCH”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [1625.427]].~~

~~[TDD—For DCHs with a unique or no “DCH Combination Ind” and the *QE-Selector* IE set to “selected”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].~~

~~[FDD—For DCHs with the same “DCH Combination Ind” the Transport channel BER from the DCH with the *QE-Selector* IE set to “selected-DCH” shall be used for the QE in the UL data frames, ref. [1625.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [1625.427]. If all DCHs have *QE-Selector* IE set to “non-selected-DCH” the Physical channel BER shall be used for the QE, ref. [1625.427]].~~

~~[TDD—For DCHs with the same “DCH Combination Ind” the Transport channel BER from the DCH with the *QE-Selector* IE set to “selected” shall be used for the QE in the UL data frames, ref. [25.427]. If all DCHs have *QE-Selector* IE set to “non-selected” the Physical channel BER shall be used for the QE, ref. [25.427]].~~

~~[TDD - For USCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [17]. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [1725.435].]~~

The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

The Node B shall use the included *UL FP Mode* IE for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

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

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

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

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

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

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *UL DPCH Information* IE groups, the Node B shall apply the new UL physical channel(s) setting in the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *DL DPCH Information* IE groups, the Node B shall apply the new physical channel(s) setting in the new configuration.]

The Node B shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

The Node B shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

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

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

#### **SSDT Activation/Deactivation:**

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

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

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

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

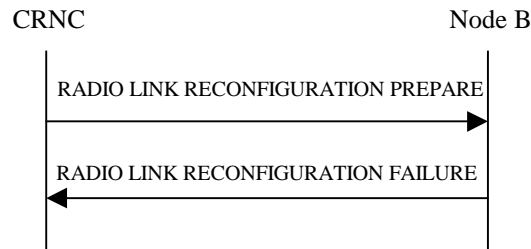
[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the NodeB shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-to-be-added group or DCH-to-be-modified group shall be included only for one of the DCH in the set of coordinated DCHs.

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

### 8.3.2.3 Unsuccessful Operation



**Figure 31: Synchronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

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

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

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

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

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

### 8.3.2.4 Abnormal Conditions

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

## 8.3.5 Unsynchronised Radio Link Reconfiguration

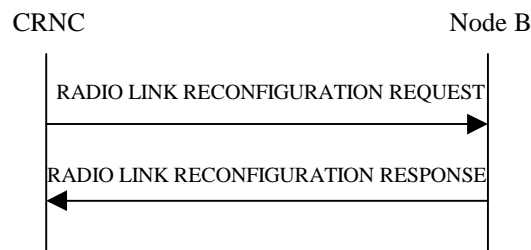
### 8.3.5.1 General

The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a Node B.

The Unsynchronised RL Reconfiguration procedure is used when there is no need to synchronise the time of the switching from the old to the new configuration in one Node B used for a UE-UTRAN connection with any other Node B also used for the UE –UTRAN connection.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.5.2 Successful Operation



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

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION REQUEST to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority* IE for a DCH to be modified, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode* IE for a DCH to be modified, the Node B shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH to be modified, the Node B shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH to be modified, the Node B shall apply the new ToAWE in the user plane for this DCH in the new configuration.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall.

1. Treat all DCHs with the same value of this IE as a set of coordinated DCHs and
2. Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

~~[FDD—For DCHs with a unique or no “DCH Combination Ind” and the *QE-Selector* IE set to “selected-DCH”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [1625.427]. If the *QE-Selector* is set to “non-selected-DCH”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [1625.427]].~~

~~[TDD—For DCHs with a unique or no “DCH Combination Ind” and the *QE-Selector* IE set to “selected”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].~~

~~[FDD—For DCHs with the same “DCH Combination Ind” the Transport channel BER from the DCH with the *QE-Selector* IE set to “selected-DCH” shall be used for the QE in the UL data frames, ref. [1625.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [1625.427]. If all DCHs have *QE-Selector* IE set to “non-selected-DCH” the Physical channel BER shall be used for the QE, ref. [1625.427]].~~

~~[TDD—For DCHs with the same “DCH Combination Ind” the Transport channel BER from the DCH with the *QE-Selector* IE set to “selected” shall be used for the QE in the UL data frames, ref. [25.427]. If all DCHs have *QE-Selector* IE set to “non-selected” the Physical channel BER shall be used for the QE, ref. [25.427]].~~

~~[TDD - For USCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [17]. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [1725.435]].~~

The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received *Frame Handling Priority* should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

The Node B shall use the included *UL FP Mode* IE for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The Node B shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS (UL)* IE, the Node B shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS (DL)* IE, the Node B shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes DSCH information for the DSCHs to be added/modified/deleted then the NodeB shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

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

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

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

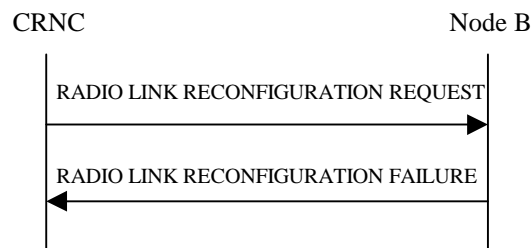
[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes USCH information for the USCHs to be added/modified/deleted then the NodeB shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. – It shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the DCH-to-be-added group or DCH-to-be-modified group shall be included for one of the DCH in the set of coordinated DCHs.

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

### 8.3.5.3 Unsuccessful Operation



**Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

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

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

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

Typical cause values are as follows:

**Radio Network Layer Cause**

- RL Already Activated/allocated

**Transport Layer Cause**

- Transport Resources Unavailable

**Protocol Cause**

- Semantic error

**Miscellaneous Cause**

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

### 8.3.5.4 Abnormal Conditions

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

## 9.1.35 RADIO LINK SETUP REQUEST

## 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				-	
<b>UL CCH Information</b>		0 to <maxno CCH>			EACH	notify
>CCH ID	M				-	
>TFCS	M				-	
>TFCI Coding	M				-	
>Puncture Limit	M				-	
<b>UL DPCH Information</b>		0 to <maxnoOf DPCH>			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				-	
<b>DL CCH Information</b>		0 to <maxno CCH>			EACH	notify
>CCH ID	M				-	
>TFCS	M				-	
>TFCI Coding	M				-	
>Puncture Limit	M				-	
>TDD TPC DL Step Size	M					
<b>DL DPCH information</b>		0 to <maxnoOf DPCH>			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				-	
<b>DCH Information</b>		0 to <maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				-	
>Limited Power Increase	M				-	
>CCH ID	M			UL CCH 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				–	
>QE-Selector	<u>M</u>				=	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DSCH Information</b>		0 to <Maxnoof DSCHs>			GLOBAL	reject
>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				–	
<b>USCH Information</b>		0 to <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M			For USCH	–	
>QE-Selector	<u>M</u>				=	
<b>RL Information</b>		1			YES	reject
>RL ID	M				–	
>C-ID	M				–	
>Frame 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 number of DCHs for one UE
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

## 9.1.41 RADIO LINK RECONFIGURATION PREPARE

## 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				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				-	
<b>UL CCTrCH Information</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				-	
>TFCS	O				-	
>TFCI Coding	O				-	
>Puncture Limit	O				-	
<b>&gt;UL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	O				-	
>>Burst Type	O				-	
>>Midamble Shift	O				-	
>>Time Slot	O				-	
>>TDD Physical channel Offset	O				-	
>>Repetition Period	O				-	
>>Repetition Length	O				-	
>>TFCI Presence	O				-	
<b>DL CCTrCH Information</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				-	
>TFCS	O				-	
>TFCI Coding	O				-	
>PunctureLimit					-	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	O				-	
>>Burst Type	O				-	
>>Midamble Shift	O				-	
>>Time Slot	O				-	
>>TDD Physical Channel Offset	O				-	
>>Repetition Period	O				-	
>>Repetition Length	O				-	
>>TFCI Presence	O				-	
<b>DCHs to Modify</b>		0..<max			GLOBAL	reject

		<i>noofDC Hs&gt;</i>				
>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				–	
<b>DCHs to Add</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>Limited Power Increase	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				–	
<u>&gt;QE-Selector</u>	<u>M</u>				<u>–</u>	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
<b>DSCH Information to modify</b>		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject
>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				–	
<b>DSCH Information to add</b>		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject
>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				–	
<b>DSCH Information to delete</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M				–	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
>Transport Format Set	O				–	
>CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	–	
<b>USCH Information to add</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M				–	
<u>&gt;QE-Selector</u>	<u>M</u>				<u>–</u>	
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
<b>RL Information</b>		0..1			YES	reject
>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>MaxnoofDPCHs</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

## 9.1.46 RADIO LINK RECONFIGURATION REQUEST

## 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				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				–	
<b>UL CCTrCH Information</b>		0..<maxn oofCCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O				–	
>Puncture Limit	O				–	
<b>DL CCTrCH Information</b>		0..<maxn oofCCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O				–	
>Puncture Limit	O				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>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				–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M				–	
>Limited Power Increase	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				–	
>QE-Selector	<u>M</u>				<u>–</u>	

>ToAWS	M				-	
>ToAWE	M				-	
<b>DCHs to Delete</b>		0..<maxn oofDSCH s>			GLOBAL	reject
>DCH ID	M				-	
<b>DSCH Information to modify</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>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				-	
<b>DSCH Information to add</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>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				-	
<b>DSCH Information to delete</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M				-	
<b>USCH Information to modify</b>		0 .. <Maxnoo f USCHs>			GLOBAL	reject
>USCH ID	M				-	
>CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	O				-	
<b>USCH Information to add</b>		0 .. <Maxnoo f USCHs>			GLOBAL	reject
>USCH ID	M				-	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	M				-	
<u>&gt;QE-Selector</u>	<u>M</u>				<u>=</u>	
<b>USCH Information to delete</b>		0 .. <Maxnoo f USCHs>			GLOBAL	reject
>USCH ID	M				-	
<b>RL Information</b>		0..1			YES	reject
>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

9.2.1.x QE-Selector

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

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



9.2.2.58 QE-Selector (VOID)

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

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

### 9.3.3 NBAP PDU Content Definitions

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

- 
- partly omitted
- 

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

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

```
RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          PRESENCE    CRITICALITY reject          TYPE
      CRNC-CommunicationContextID                    PRESENCE    mandatory    }|
    { ID      id-UL-CCTrCH-InformationList-RL-SetupRqstTDD  PRESENCE    CRITICALITY notify         TYPE
      UL-CCTrCH-InformationList-RL-SetupRqstTDD      PRESENCE    optional     }|
    { ID      id-UL-DPCH-InformationList-RL-SetupRqstTDD    PRESENCE    CRITICALITY notify         TYPE
      UL-DPCH-InformationList-RL-SetupRqstTDD        PRESENCE    optional     }|
    { ID      id-DL-CCTrCH-InformationList-RL-SetupRqstTDD  PRESENCE    CRITICALITY notify         TYPE
      DL-CCTrCH-InformationList-RL-SetupRqstTDD      PRESENCE    optional     }|
    { ID      id-DL-DPCH-InformationList-RL-SetupRqstTDD    PRESENCE    CRITICALITY notify         TYPE
      DL-DPCH-InformationList-RL-SetupRqstTDD        PRESENCE    optional     }|
    { ID      id-DCH-InformationList-RL-SetupRqstTDD       PRESENCE    CRITICALITY reject          TYPE
      DCH-InformationList-RL-SetupRqstTDD            PRESENCE    optional     }|
    { ID      id-DSCH-InformationList-RL-SetupRqstTDD      PRESENCE    CRITICALITY reject          TYPE
      DSCH-InformationList-RL-SetupRqstTDD          PRESENCE    optional     }|
    { ID      id-USCH-InformationList-RL-SetupRqstTDD      PRESENCE    CRITICALITY reject          TYPE
      USCH-InformationList-RL-SetupRqstTDD          PRESENCE    optional     }|
    { ID      id-RL-Information-RL-SetupRqstTDD           PRESENCE    CRITICALITY reject          TYPE
      RL-Information-RL-SetupRqstTDD                PRESENCE    mandatory    },
    ...
}
```

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

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

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

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

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

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

```
UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    burstType        BurstType,
    midambleShift    MidambleShift,
    timeslot         Timeslot,
}
```

```

    tdd-PhysicalChannelOffset      TDD-PhysicalChannelOffset,
    repetitionPeriod              RepetitionPeriod,
    repetitionLength              RepetitionLength,
    tFCI-Presence                 TFCI-Presence,
    iE-Extensions                 ProtocolExtensionContainer { { UL-DPCH-InformationItem-
RL-SetupRqstTDD-ExtIEs} }      OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

```

- 
- partly omitted
-

```

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

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

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

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

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

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

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

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

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

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

UL-DPCH-InformationItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode      OPTIONAL,
    burstType          BurstType          OPTIONAL,
    midambleShift      MidambleShift      OPTIONAL,
}

```

```

    timeSlot                TimeSlot                OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    repetitionPeriod        RepetitionPeriod    OPTIONAL,
    repetitionLength        RepetitionLength      OPTIONAL,
    tFCI-Presence           TFCI-Presence       OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { UL-DPCH-
InformationItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-cCTrCH-ID         CCTrCH-ID                OPTIONAL,
    dl-cCTrCH-ID         CCTrCH-ID                OPTIONAL,
    ul-TransportFormatSet TransportFormatSet    OPTIONAL,
    dl-TransportFormatSet TransportFormatSet    OPTIONAL,
    frameHandlingPriority FrameHandlingPriority    OPTIONAL,
    ul-FP-Mode           UL-FP-Mode                OPTIONAL,
    toAWS                ToAWS                    OPTIONAL,
    toAWE                ToAWE                    OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DCH-ModifyItem-RL-
ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

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

```

}

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

```

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID,
    limitedPowerIncrease,
    ul-CCTrCH-ID,
    dl-CCTrCH-ID,
    dCH-CombinationIndication,
    ul-TransportFormatSet,
    dl-TransportFormatSet,
    frameHandlingPriority,
    payloadCRC-PresenceIndicator,
    ul-FP-Mode,
    qE-Selector,
    toAWS,
    toAWE,
    iE-Extensions
ReconfPrepTDD-ExtIEs } OPTIONAL,
    ...
}

```

```

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

```

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

```

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

```

```

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

```

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

```

DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID,
    cCTrCH-ID,
    transportFormatSet,
    frameHandlingPriority,
    toAWS,
    toAWE,
    iE-Extensions
ModifyItem-RL-ReconfPrepTDD-ExtIEs } OPTIONAL,
    ...
}

```

```

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

```

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

```

DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID,
    cCTrCH-ID,
    transportFormatSet,
    frameHandlingPriority,
    toAWS,
    toAWE,
    iE-Extensions
AddItem-RL-ReconfPrepTDD-ExtIEs } OPTIONAL,
    ...
}

```

```

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

```

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

```

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

```

```

}
...
}
DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-
Information-ModifyItem-RL-ReconfPrepTDD
USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet     TransportFormatSet      OPTIONAL,
    cTrCH-ID               CCTrCH-ID              OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-
ModifyItem-RL-ReconfPrepTDD-ExtIEs} }      OPTIONAL,
    ...
}
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-
Information-AddItem-RL-ReconfPrepTDD
USCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cTrCH-ID               CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    qE-Selector            QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-
AddItem-RL-ReconfPrepTDD-ExtIEs} }      OPTIONAL,
    ...
}
USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-
Information-DeleteItem-RL-ReconfPrepTDD
USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-
DeleteItem-RL-ReconfPrepTDD-ExtIEs} }      OPTIONAL,
    ...
}
USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
RL-Information-RL-ReconfPrepTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    maxDL-Power          DL-Power      OPTIONAL,
    minDL-Power          DL-Power      OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { RL-Information-RL-
ReconfPrepTDD-ExtIEs} }      OPTIONAL,
    ...
}
RL-Information-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- RADIO LINK RECONFIGURATION READY
--
-- *****

```

- 
- partly omitted
-



```

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

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

RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID          CRITICALITY   reject
    TYPE     NodeB-CommunicationContextID             PRESENCE      mandatory } |
    { ID      id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD CRITICALITY   notify
    TYPE     UL-CCTrCH-InformationList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD CRITICALITY   notify
    TYPE     DL-CCTrCH-InformationList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-DCH-ModifyList-RL-ReconfRqstTDD          CRITICALITY   reject
    TYPE     DCH-ModifyList-RL-ReconfRqstTDD            PRESENCE      optional } |
    { ID      id-DCH-AddList-RL-ReconfRqstTDD             CRITICALITY   reject
    TYPE     DCH-AddList-RL-ReconfRqstTDD              PRESENCE      optional } |
    { ID      id-DCH-DeleteList-RL-ReconfRqstTDD         CRITICALITY   reject
    TYPE     DCH-DeleteList-RL-ReconfRqstTDD          PRESENCE      optional } |
    { ID      id-DSCH-Information-ModifyList-RL-ReconfRqstTDD CRITICALITY   reject
    TYPE     DSCH-Information-ModifyList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-DSCH-Information-AddList-RL-ReconfRqstTDD CRITICALITY   reject
    TYPE     DSCH-Information-AddList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-DSCH-Information-DeleteList-RL-ReconfRqstTDD CRITICALITY   reject
    TYPE     DSCH-Information-DeleteList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-USCH-Information-ModifyList-RL-ReconfRqstTDD CRITICALITY   reject
    TYPE     USCH-Information-ModifyList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-USCH-Information-AddList-RL-ReconfRqstTDD CRITICALITY   reject
    TYPE     USCH-Information-AddList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-USCH-Information-DeleteList-RL-ReconfRqstTDD CRITICALITY   reject
    TYPE     USCH-Information-DeleteList-RL-ReconfRqstTDD PRESENCE      optional } |
    { ID      id-RL-Information-RL-ReconfRqstTDD          CRITICALITY   ignore
    TYPE     RL-Information-RL-ReconfRqstTDD           PRESENCE      optional },
    ...
}

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

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

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

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

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

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

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

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

```

```

}

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

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

DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID                OPTIONAL,
    dl-CCTrCH-ID          CCTrCH-ID                OPTIONAL,
    ul-TransportFormatSet TransportFormatSet        OPTIONAL,
    dl-TransportFormatSet TransportFormatSet        OPTIONAL,
    frameHandlingPriority FrameHandlingPriority     OPTIONAL,
    ul-FP-Mode            UL-FP-Mode                OPTIONAL,
    toAWS                 ToAWS                    OPTIONAL,
    toAWE                 ToAWE                    OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DCH-ModifyItem-
RL-ReconfRqstTDD-ExtIEs} }          OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- 
- partly omitted
-

## 9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

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

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

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

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

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

AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete,
    ...
}

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

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
}

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..2047)
-- Time = BCCH-ModificationTime * 2
-- Range 0 to 4094, step 2
-- All even SFN values are allowed

BindingID ::= OCTET STRING (SIZE (1..4, ...))

```

```

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

BlockSTTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2),
    ...
}

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

Cause ::= CHOICE {
    radioNetwork          CauseRadioNetwork,
    transport             CauseTransport,
    protocol              CauseProtocol,
    misc                  CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

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

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scramblingcode-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAllocated,
    nodeB-Resources-unavailable,
    insufficient-physical-channel-resources,
    measurement-not-supported-for-the-object,
    macrodiversity-combining-not-possible,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    sIB-Origination-in-Node-B-not-Supported,
    unspecified,
    priority-transport-channel-established,
    ...
}

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

CCTrCH-ID ::= INTEGER (0..15)

```

```

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

CFNOffset ::= INTEGER (0..255)

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

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

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

CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iscp,
    ...
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power  Transmitted-Carrier-Power-Value,
    rssi                        RSSI-Value,
    acknowledged-ra-tries     Acknowledged-RA-Tries-Value,
    time-slot-iscp             TimeSlot-ISCP-Value,
    ...
}

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

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

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

CriticalityDiagnostics ::= SEQUENCE {
    procedureCode          ProcedureCode          OPTIONAL,
    triggeringMessage      TriggeringMessage      OPTIONAL,
    criticalityResponse    Criticality             OPTIONAL,
    transactionID         TransactionID          OPTIONAL,
    iEsCriticalityResponses CriticalityDiagnostics-IE-List,
    iE-Extensions         ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
    OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
SEQUENCE {
    criticalityResponse Criticality,
    iE-ID               ProtocolIE-ID,
    repetitionNumber   RepetitionNumber          OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-
ExtIEs} }          OPTIONAL,
    ...
}

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

```

```

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

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

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

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

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

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

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

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

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closed-loop-mode1,
    closed-loop-mode2,
    ...
}

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

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

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

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

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

DPCH-ID ::= INTEGER (0..239)

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

-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TFS ::= INTEGER

-- =====
-- E
-- =====

```



```

-- =====
-- F
-- =====

FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 255)
-- The maximum value is equal to the DL spreading factor -1--

FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [TS 25.211] --

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

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

FrameOffset ::= INTEGER (0..255)

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

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

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

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

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

IB-SG-DATA ::= BIT STRING

IB-SG-POS ::= INTEGER (0..2064)
-- Only even positions allowed

IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024,
rep2048}

IB-Type ::= ENUMERATED {
    mib,
    sib1,
    sib2,
    sIB3,
    sIB4,
    sIB5,
    sIB6,
    sIB7,
    sIB8,
    sIB9,
    sIB10,
    sIB11,
    sib12,
    sIB13,
    sIB13dot1,
    sIB13dot2,
    sIB13dot3,
    sIB13dot4,
    sIB14,
    ...
}

IndicationType ::= ENUMERATED {
    noFailure,
    serviceImpacting,
    ...
}

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

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

```

```

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

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

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

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

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

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

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

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- Measurement Filter Coefficient to be used for measurement

MeasurementID ::= INTEGER (0..1048575)

MidambleShift ::= INTEGER (0..15)

MinSpreadingFactor ::= ENUMERATED {
    v4,
    v16,
    v32,
    v64,
    v128,
    v256,
    v512,
    ...
}

MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

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

-- =====
-- N
-- =====

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

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

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

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

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    CRC-Included,
    CRC-NotIncluded,
    ...
}

PCCPCH-Power ::= INTEGER (-150..400)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400

```

-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

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

```
PDSCH-CodeMapping ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    signallingMethod           CHOICE {
        code-Range             PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
        tFCI-Range             PDSCH-CodeMapping-DSCH-MappingInformationList,
        explicit                PDSCH-CodeMapping-PDSCH-CodeInformationList
    },
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-
ExtIEs} } OPTIONAL,
    ...
}
```

```
PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0..maxCodeNrComp-1)

```
PDSCH-CodeMapping-SpreadingFactor ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}
```

```
PDSCH-CodeMapping-PDSCH-CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF
SEQUENCE {
    spreadingFactor             PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo             PDSCH-Multi-CodeInfo,
    start-CodeNumber           PDSCH-CodeMapping-CodeNumberComp,
    stop-CodeNumber            PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-
CodeMappingInformationList-ExtIEs} } OPTIONAL,
    ...
}
```

```
PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
PDSCH-CodeMapping-DSCH-MappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
SEQUENCE {
    maxTFCI-field2-Value       PDSCH-CodeMapping-MaxTFCI-Field2-Value,
    spreadingFactor            PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo             PDSCH-Multi-CodeInfo,
    codeNumber                 PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-DSCH-
MappingInformationList-ExtIEs} } OPTIONAL,
    ...
}
```

```
PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

PDSCH-CodeMapping-MaxTFCI-Field2-Value ::= INTEGER (1..1023)

```
PDSCH-CodeMapping-PDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
SEQUENCE {
    spreadingFactor             PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo             PDSCH-Multi-CodeInfo,
    codeNumber                 PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-
CodeInformationList-ExtIEs} } OPTIONAL,
    ...
}
```

```
PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

PDSCH-Multi-CodeInfo ::= INTEGER (1..16)

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

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

PICH-Mode ::= ENUMERATED {

```

    v18,
    v36,
    v72,
    v144,
    ...
}

PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}

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

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

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

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

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

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

PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = 0chip, 1 = 3chips

SCH-TimeSlot ::= INTEGER (0..6)

PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%

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

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

-- =====
-- Q
-- =====

QE-Selector ::= ENUMERATED {
    selected-DCH,
    non-selected-DCH
}

-- =====
-- R
-- =====

```

## 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 121R1**

Current Version: **3.1.0.**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**  
 list expected approval meeting # here ↑

for approval   
 for information

Strategic   
 non-strategic  (for SMG use only)

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

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

**Source:** R-WG3 **Date:** May , 2000

**Subject:** Range bounds related to TFCS, TFS and PDSCH code mapping

**Work item:**

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

**Reason for change:**

CR121R1

- Corrected 1677215 to 16777215 (2<sup>24</sup>-1);
- In line with ref[2], the range for the Reference TFC (part of the gain factor) has been updated from 0..3 in stead of 0..15;

CR121

During R3#12, Ericsson provided a contribution concerning many range bounds present in the protocol. This contribution did not include Range bounds related to TFCS, TFS and PDSCH code mapping IEs which we want to add in this contribution.

The values proposed in this contribution are based on:

- R2-000812, agreed (with mod) during R2#12 (ref [1]);
- R2-00933, agreed during R2#12 (ref[2]);
- Existig specifications;

An overview on the concerning range bounds is indicated in the following table:

Range bound:	MaxnoofTFCs
Present in:	PDSCH code mapping
Description:	Max number of transport format combinations
Proposed value:	1024
Source:	25.433 v.3.1.0
Range bound:	MaxCTFC
Present in:	TFCS
Description:	Max value of CTFC
Proposed value:	16777215 (24 bits: 16777216-1)

Source: ref [2]

The separate range bounds for MaxCTFC\_DCH and MaxCTFC-DSCH were removed by [2] and are set to the same value as MaxCTFC.

Range bound: MaxNoTFCIGroups  
Present in: PDSCH code mapping & TFCS  
Description: Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.  
Proposed value: 256  
Source: ref [1]

Range bound: MaxTFCI\_1\_Combs  
Present in: TFCS  
Description: Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI field 1)  
Proposed value: 512  
Source: 25.433 v3.1.0: based on min TFCI2 length of 1

Range bound: MaxTFCI\_2\_Combs  
Present in: PDSCH code mapping  
Description: Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)  
Proposed value: 1024  
Source: 25.433 v3.1.0: based on max TFCI2 length of 10

Range bound: MaxTFcount  
Present in: TFS  
Description: Maximum number of different transport formats that can be included in the Transport format set for one transport channel  
Proposed value: 32  
Source: 25.331 v.3.2.0 / ref [1]

Range bound: MaxTTIcount  
Present in: TFS  
Description: The amount of different TTI that are possible for that transport format [TDD].  
Proposed value: 4  
Source: 25.433 v3.1.0

Range bound: MaxRM  
Present in: TFS  
Description: Maximum rate matching attribute value for a transport channel  
Proposed value: 256  
Source: 25.331 v3.2.0

Range bound: MaxNoCodeGroups  
Present in: PDSCH code mapping  
Description: Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.  
Proposed value: 256  
Source: ref [1]

Range bound: MaxCodeNumbComp  
Present in: PDSCH code mapping  
Description: Maximum number of codes at the defined spreading factor, within the complete code tree.  
Proposed value: 256  
Source: 25.433 v3.1.0: 256 channelisation codes at highest SF

Note that for many of these range bounds, the ASN.1 specification does not indicate the actual value, but the value – 1 !

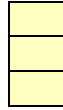
**Clauses affected:** 9.2.1.53; 9.2.1.54; 9.3.4; 9.3.7

**Other specs affected:**

Other 3G core specifications  
Other GSM core specifications


→ List of CRs:  
→ List of CRs:


MS test specifications  
BSS test specifications  
O&M specifications



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



**Other  
comments:**

- A similar contribution should be provided for RNSAP in the future, however was not provided now since the DSCH has not been introduced in RNSAP signalling yet.

- PDSCH seems to be inconsistent in NBAP and RRC: RRC provides a replacement option which is not provided in NBAP.

### 9.2.1.53 TFCS (Transport Format Combination Set)

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

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

#### Method #1 - TFCI range

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

#### Method #2 - Explicit

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

]

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

#### Method #1 - TFCI range

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

#### Method #2 - Explicit

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



IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>DSCH</i>				
> <i>No split in TFCI</i>				This choice is made if : a) The TFCS refers to the uplink OR b) The mode is FDD and none of the Node B communication contexts are assigned any DSCH transport channels OR c) The mode is TDD
>>TFCS		1 to <maxnoofTFCs>		The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.
>>>CTFC	M		INTEGER(0..MaxCTFC-4)	Integer number calculated according to TS 25.331
>>>CHOICE Gain Factors	C-PhysChan			
>>>>Signalled Gain Factors				
>>>>>Gain Factor $\beta_c$	M		Integer (0..15)	For UL DPCCCH or control part of PRACH in FDD; mapping in accordance to TS 25.213
>>>>>Gain Factor $\beta_D$	M		Integer (0..15)	For UL DPDCH or data part of PRACH in FDD; mapping in accordance to TS 25.213
>>>>>Reference TFC nr	O		Integer (0..453)	If this TFC is a reference TFC, this IE indicates the reference number
>>>>>Computed Gain Factors				
>>>>>Reference TFC nr	M		Integer (0..453)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
> <i>There is a split in the TFCI</i>				This choice is made if : a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Node B communication contexts is assigned one or more DSCH transport channels
>>Transport format combination_DCH		1 to <MaxTFCI_1_Comb>		The first instance of the parameter <i>Transport format combination_DCH</i> corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC_DSCHCTFC (field1)	M		Integer(0..MaxCTFC_DSCH-4)	Integer number calculated according to TS 25.331. The calculation of CTFC ignores any DSCH transport channels which may be assigned
>>Choice Signalling method				
>>>TFCI range				
>>>>TFC mapping on DSCH		1 to <MaxNoTFCIGroups>		
>>>>>Max TFCI(field2) value	M		Integer(1..1023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC_DSCHCTFC(field2) applies
>>>>>CTFC_DSCHCTFC(field2)	M		Integer(0..MaxCTFC_DSCH-4)	Integer number calculated according to TS 25.331. The calculation of CTFC ignores any

				DCH transport channels which may be assigned
>>>Explicit				
>>>>Transport format combination_DSCH		1 to <MaxTFCI_2_Combs>		The first instance of the parameter <i>Transport format combination_DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC_DSCHCTFC(field2)	M		Integer(0..MaxCTFC_DSCH+1)	Integer number calculated according to TS 25.331. The calculation of CTFC ignores any DCH transport channels which may be assigned

Condition	Explanation
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH or PRACH channel in FDD, not when the TFCS is used for other physical channels.

Range bound	Explanation
MaxnoofTFCs	The maximum number of Transport Format Combinations (1024).
MaxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC_DSCHCTFC(field2) applies
MaxCTFC	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to TS 25.331
MaxCTFC_DCH	Maximum value of CTFC_DCH is calculated according to the following: $\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to TS25.331 where only the DCH transport channels are taken into account in the calculation.
MaxCTFC_DSCH	Maximum value of CTFC_DSCH is calculated according to the following: $\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to TS 25.331 where only the DSCH transport channels are taken into account in the calculation.

### 9.2.1.54 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Set				
<b>Dynamic Transport Format Information</b>		1 to <maxTFcount>		
>Number of Transport blocks	M		INTEGER (0..4095)	
>Transport Block Size	C – Blocks		INTEGER (1..5000)	Bits
>CHOICE mode				
>>TDD				
>>>Transmission time interval	C-TTIdynamic	1 to <maxTTIcount>	Enumerated(10, 20, 40, 80)	
<b>Semi-static Transport Format Information</b>				
>Transmission time interval	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80)	msec
>Type of channel coding	M		ENUMERATED (No coding, Convolutional, Turbo)	
>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3)	
>Rate matching attribute	M		INTEGER (1..maxRM)	
>CRC size	M		ENUMERATED (0, 8, 12, 16, 24)	
>CHOICE mode				
>>TDD				
>>>2 <sup>nd</sup> interleaving mode	M		Enumerated(Frame related, Timeslot related)	

Condition	Explanation
Blocks	This IE is only present if "Number of Transport Blocks" is greater than 0.
Coding	This IE is only present if IE "Type of channel coding" is "Convolutional" or "Turbo"
<i>TTIdynamic</i>	This IE is mandatory if not defined as semistatic parameter. Otherwise it is absent.
<i>TTIsemistatic</i>	This IE is mandatory if not defined as dynamic parameter. Otherwise it is absent.

Range bound	Explanation
MaxTFcount	Maximum number of different transport formats that can be included in the Transport format set for one transport channel <a href="#">is-32</a> .
MaxRM	Maximum number that could be set as rate matching attribute for a transport channel.
MaxTTIcount	The amount of different TTI that are possible for that transport format <a href="#">is-4</a> .

### 9.3.4 NBAP Information Elements

```

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

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCs ,
    maxNrOfErrors ,
    maxCTFC-1 ,
    maxNrOfTFs ,
    maxTTI-count ,
    maxRateMatching ,
    maxCodeNrComp-1 ,
    maxNrOfCodeGroups ,
    maxNrOfTFCIGroups ,
    maxNrOfTFCI1Combs ,
    maxNrOfTFCI2Combs ,
    maxNrOfTFCI2Combs-1 ,
    maxCTFC-DCH-1 ,
    maxCTFC-DSCH-1 ,
    maxNrOfSF
FROM NBAP-Constants

.....

```

```
-- =====
-- R
-- =====
```

```
RACH-SlotFormat ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    ...
}
```

```
RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, ..., Bit 11=Sub Channel Number 11
```

```
RepetitionLength ::= INTEGER (1..63)
```

```
RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64,
    ...
}
```

```
RepetitionNumber ::= INTEGER (0..255)
```

```
| RefTFCNumber ::= INTEGER (0..315)
```

```
ReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          ReportCharacteristicsType-ReportPeriodicity,
    event-a           ReportCharacteristicsType-EventA,
    event-b           ReportCharacteristicsType-EventB,
    event-c           ReportCharacteristicsType-EventC,
    event-d           ReportCharacteristicsType-EventD,
    event-e           ReportCharacteristicsType-EventE,
    event-f           ReportCharacteristicsType-EventF,
    ...
}
.....
```

```
-- =====
-- T
-- =====
```

```
T-Cell ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    v4,
    v5,
    v6,
    v7,
    v8,
    v9,
    ...
}
```

```
TDD-ChannelisationCode ::= ENUMERATED {
    chCode1div1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
    ...
}
```

```
TDD-PhysicalChannelOffset ::= INTEGER (0..63)
```

```
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    ...
}
```

```
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors      SEQUENCE {
        betaC                  BetaCD,
        betaD                  BetaCD,
        refTFCNumber           RefTFCNumber OPTIONAL
    },
    computedGainFactors       RefTFCNumber
}
```

```
TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    ...
}
```

```

TFCI-Presence ::= ENUMERATED {
    present,
    not-present,
    ...
}

TFCI-SignallingMode ::= SEQUENCE {
    tFCI-SignallingOption      TFCI-SignallingMode-TFCI-SignallingOption,
    splitType                  TFCI-SignallingMode-SplitType                OPTIONAL,
    -- This IE is only present if TFCI signalling option is split --
    lengthOfTFCI2              TFCI-SignallingMode-LengthOfTFCI2          OPTIONAL,
    -- This IE is only present if split type is logical --
    iE-Extensions              ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs } }
    OPTIONAL,
    ...
}

TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)

TFCI-SignallingMode-SplitType ::= ENUMERATED {
    hard,
    logical,
    ...
}

TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    split,
    ...
}

TGD ::= INTEGER (0..3839)

TGL ::= INTEGER (3| 4| 7| 10| 14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

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

TimeSlot-ISCP-Value-IncrDecrThres ::= INTEGER (0..80)

TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
    ...
}

ToAWE ::= INTEGER (0..2559)
-- Unit ms

ToAWS ::= INTEGER (0..1279)
-- Unit ms

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

TransmitDiversityIndicator ::= ENUMERATED {
    active,

```

```

    inactive,
    ...
}

TFCS ::= SEQUENCE {
    dschTFCValues CHOICE {
        no-Split-in-TFCI          TFCS-TFCSList,
        split-in-TFCI            SEQUENCE {
            transportFormatCombination-DCH    TFCS-DCHList,
            signallingMethod                  CHOICE {
                tFCI-Range                    TFCS-TFC-MappingOnDSCHList,
                explicit                       TFCS-TFC-DSCHList
            }
        }
    },
    iE-Extensions          ProtocolExtensionContainer { { TFCS-ExtIEs } }    OPTIONAL,
    ...
}

TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
    SEQUENCE {
        cTFC          TFCS-CTFC,
        tFC-Beta      TransportFormatCombination-Beta    OPTIONAL,
        iE-Extensions ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }    OPTIONAL,
        ...
    }

TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-CTFC ::= INTEGER (01..maxCTFC1)

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
    SEQUENCE {
        cTFC          TFCS-CTFC-DCH,
        iE-Extensions ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } }    OPTIONAL,
        ...
    }

TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-CTFC-DCH ::= INTEGER (0..maxCTFC-DCH-1)

TFCS-TFC-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
    SEQUENCE {
        maxTFCI-field2-Value    TFCS-MaxTFCI-field2-Value,
        cTFC-DSCH                TFCS-CTFC-DSCH,
        iE-Extensions            ProtocolExtensionContainer { { TFCS-TFC-MappingOnDSCHList-
ExtIEs } }    OPTIONAL,
        ...
    }

TFCS-TFC-MappingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs-1511)

TFCS-CTFC-DSCH ::= INTEGER (0..maxCTFC-DSCH-1)

TFCS-TFC-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
    SEQUENCE {
        cTFC-DSCH                TFCS-CTFC-DSCH,
        iE-Extensions            ProtocolExtensionContainer { { TFCS-TFC-DSCHList-ExtIEs } }
OPTIONAL,
        ...
    }

TFCS-TFC-DSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```
TransportFormatSet ::= SEQUENCE {
    dynamicParts      TransportFormatSet-DynamicPartList,
    semi-staticPart  TransportFormatSet-Semi-staticPart,
    iE-Extensions    ProtocolExtensionContainer { { TransportFormatSet-ExtIEs} }
    OPTIONAL,
    ...
}
```

.....

```

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

maxNrOfCodes                INTEGER ::= 10
maxNrOfCmpatterns          INTEGER ::= 8
maxNrOfDLCodes             INTEGER ::= 10
maxNrOfErrors              INTEGER ::= 10
maxNrOfTFs                 INTEGER ::= 101032
maxNrOfTFCs                INTEGER ::= 101024
maxNrOfRLs                 INTEGER ::= 10
maxNrOfRLSets             INTEGER ::= 10
maxNrOfDPCHs              INTEGER ::= 10
maxNrOfSCCPCHs            INTEGER ::= 10
maxNrOfPRACHs             INTEGER ::= 10
maxNrOfDCHs               INTEGER ::= 10
maxNrOfDSCHs              INTEGER ::= 10
maxNrOfFACHs              INTEGER ::= 10
maxNrOfCCTrCHs            INTEGER ::= 10
maxNrOfPDSCHs             INTEGER ::= 10
maxNrOfPUSCHs             INTEGER ::= 10
maxNrOfPDSCHSets          INTEGER ::= 10
maxNrOfPUSCHSets          INTEGER ::= 10
maxNrOfULTSs              INTEGER ::= 15
maxNrOfUSCHs              INTEGER ::= 10
maxSF                      INTEGER ::= 10
maxCellinNodeB            INTEGER ::= 10
maxCCPinNodeB             INTEGER ::= 10
maxCTFC-1                 INTEGER ::= 101677215
maxLocalCellinNodeB       INTEGER ::= 10
maxRACHCell               INTEGER ::= 10
maxPRACHCell              INTEGER ::= 10
maxSCCPCHCell             INTEGER ::= 10
maxSCPICHCell             INTEGER ::= 10
maxTTI-count              INTEGER ::= 10104
maxIBSEG                  INTEGER ::= 10
maxIB                      INTEGER ::= 10
maxFACHCell               INTEGER ::= 10
maxRateMatching           INTEGER ::= 10256
maxCodeNrComp-1          INTEGER ::= 10255
maxNrOfCodeGroups         INTEGER ::= 10256
maxNrOfTFCIGroups         INTEGER ::= 10256
maxNrOfTFCI1Combs         INTEGER ::= 10512
maxNrOfTFCI2Combs         INTEGER ::= 101024
maxNrOfTFCI2Combs-1       INTEGER ::= 1023
maxCTFC-DCH-1             INTEGER ::= 10
maxCTFC-DSCH-1           INTEGER ::= 10
maxNrOfSF                 INTEGER ::= 8

```

**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 123r3**

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#8**  
*list expected approval meeting # here*

for approval   
for information

strategic   
non-strategic  (for SMG use only)

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

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

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

**Subject:** Downlink power balancing

**Work item:**

**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:** To clarify/correct how the downlink power adjustments shall be applied in Node B.

**Clauses affected:** 8.3.7.2; 9.1.1.50; 9.2.2.52; 9.2.2.53; 9.3.3; 9.3.4; 9.3.7

**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.

### 8.3.7.2 Successful Operation



**Figure 37: Downlink Power Control procedure: Successful Operation**

The procedure is initiated by the CRNC sending a DL POWER CONTROL REQUEST message to the Node B.

The *Power Adjustment Type* IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is *Common*, the Node B shall perform the power adjustment (see below) for all radio links associated with the context identified by the *Node B Communication Context Id* IE using a common DL reference power level.

If the value of the *Power Adjustment Type* IE is *Individual*, the Node B shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Powers per RL.

~~The Node B performs the power balancing by using the received power.~~

If the value of the *Power Adjustment Type* IE is *None*, the Node B shall suspend on going power adjustments for all radio links for the UE context.

#### Power Adjustment

~~The power balancing adjustment superimposed on the inner loop power control adjustment (see Ref. [10]) shall be such that:~~

$$\sum P_{bal} = (1 - r)(P_{ref} - P_{init}) \text{ with an accuracy of } \pm 0.5 \text{ dB}$$

~~where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the *Adjustment Period* IE,  $P_{ref}$  is the value of the *DL Reference Power* IE,  $P_{init}$  is the power at the beginning of the adjustment period and  $r$  is given by the *Adjustment Ratio* IE.~~

~~The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE.~~

~~The power adjustments shall be repeated for every adjustment period, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted~~

~~The Node B performs the power balancing by using the received *DL Reference Power* IE as a reference for adjusting the applied DL power.~~

~~The adjustment of the power shall be done with constrains given by the included parameters *Max Adjustment Step* IE and *Adjustment Period* IE. The Power adjustment is repeated for every adjustment period.~~

~~Node B shall suspend on going power adjustment operations at the reception of a new DL POWER CONTROL REQUEST message, and then performs the adjustment based on the new parameters.~~

### 8.3.7.3 Abnormal Conditions

9.1.50 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				-	
Message Type	M				YES	ignore
Node B Communication Context ID	M				YES	ignore
Transaction ID	M				-	
Power Adjustment Type	M				YES	ignore
DL Reference Power	C-Common		DL power		<del>YES</del>	<u>ignore</u>
<b>DL Reference Power Information</b>	C-Individual	1..<maxnoof RLs>			GLOBAL	ignore
>RL ID	M				-	
>DL Reference Power	M		DL power		-	
Max Adjustment Step	C-CommonOrIndividual				<u>YES</u>	<u>ignore</u>
<del>Max</del> -Adjustment Period	C-CommonOrIndividual				<u>YES</u>	<u>ignore</u>
<u>Adjustment Ratio</u>	<u>C-CommonOrIndividual</u>				<u>YES</u>	<u>ignore</u>

Condition	Explanation
Common	This IE is present only "Adjustment Type " equals to 'Common'
Individual	This IE is present only "Adjustment Type " equals to 'Individual'
CommonOrIndividual	This IE is present only "Adjustment Type " equals to 'Common' or 'Individual'

Range Bound	Explanation
MaxnoofRLs	Maximum number of Radio Links for a UE

### 9.2.2.52 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level ~~during a certain number of slots in one slot period~~ that can be utilised by the ~~downlink pPower balancingdrifting prevention~~ algorithm. Max Adjustment Step IE defines a time period, in terms of number of slots, in which the accumulated power adjustment shall be maximum 1dB. This value does not include the DL inner loop PC adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<del>Maximum</del> Adjustment Step			INTEGER ( <del>0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 11 .. 10</del> )	<del>dB</del> Slots

**9.2.2.53 — Max Adjustment Period**

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

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

**9.2.2.X — Adjustment Period**

*Adjustment Period* IE defines the period to be used for power balancing..

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Adjustment Period</u>			INTEGER (1 .. 300)	Frames

**9.2.2.X — Adjustment Ratio**

*Adjustment Ratio* IE (*Radj*) defines the convergence rate used for the associated Adjustment Period.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Adjustment Ratio</u>			INTEGER (0 .. 100)	The Adjustment Ratio is given with a granularity of 0.01  0 -> 0.00 1 -> 0.01 ... 100 -> 1.00

### 9.3.3 NBAP PDU Content Definitions

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

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

BEGIN

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

IMPORTS
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CTrCH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
```



```
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-ScramblingCode,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,  
PowerResumeMode,
```

PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
~~ScaledMax~~AdjustmentPeriod,  
ScaledAdjustmentRatio,  
~~ScaledMax~~AdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,

TransmissionDiversityApplied,  
 TransmitDiversityIndicator,  
 TransportFormatSet,  
 TransportLayerAddress,  
 TSTD-Indicator,  
 UARFCN,  
 UL-CapacityCredit,  
 UL-DL-CompressedModeSelection,  
 UL-DeltaSIR,  
 UL-DeltaSIR-after,  
 UL-DPCCCH-SlotFormat,  
 UL-SIR,  
 UL-FP-Mode,  
 UL-InterferenceLevel,  
 UL-ScramblingCode,  
 USCH-ID  
 FROM NBAP-IEs

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

id-AdjustmentRatio,

id-AICH-InformationItem-AuditRsp,  
 id-AICH-InformationItem-ResourceStatusInd,  
 id-AICH-ParametersList-CTCH-ReconfRqstFDD,  
 id-AllRLItem-DM-Rprt,  
 id-AllRLItem-DM-Rsp,  
 id-AllRLItem-Set-DM-Rprt,  
 id-AllRLItem-Set-DM-Rsp,  
 id-BCH-InformationItem-AuditRsp,  
 id-BCH-InformationItem-ResourceStatusInd,  
 id-BCCH-ModificationTime,  
 id-BlockingPriorityIndicator,  
 id-Case1Item-Cell-SetupRqstTDD,  
 id-Case2Item-Cell-SetupRqstTDD,  
 id-Cause,  
 id-CCP-InformationItem-AuditRsp,  
 id-CCP-InformationList-AuditRsp,  
 id-CCP-InformationItem-ResourceStatusInd,  
 id-Cell-InformationItem-AuditRsp,  
 id-Cell-InformationItem-ResourceStatusInd,  
 id-Cell-InformationList-AuditRsp,  
 id-CellItem-CM-Rprt,  
 id-CellItem-CM-Rqst,  
 id-CellItem-CM-Rsp,

id-CellParameterID,  
id-CFN,  
id-C-ID,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,

id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,

id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstFDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstFDD,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,

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

id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,



```

id-TimeSlotConfigurationList-Cell-SetupRqstTDD,
id-TransmissionDiversityApplied,
id-UARFCNforNt,
id-UARFCNforNd,
id-UARFCNforNu,
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,
id-UL-DPCH-InformationList-RL-SetupRqstTDD,
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,
id-USCH-information-AddList-RL-ReconfPrepTDD,
id-USCH-Information-AddList-RL-ReconfRqstTDD,
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,
id-USCH-InformationResponseListIE-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,
id-USCH-ModifyListIE-RL-ReconfReady,
id-USCH-ModifyListIE-RL-ReconfRsp,
id-USCH-SetupListIE-RL-ReconfReady,
id-USCH-SetupListIE-RL-ReconfRsp,

```

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

```

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

```

```

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

```

```

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

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

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

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

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

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

-- partly omitted --

```

### 9.3.4 NBAP Information Elements

```

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

```

```
-----
```

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

```
SealedMaxAdjustmentPeriod ::= INTEGER(1..30050)
-- Unit FrameMaxAdjustmentPeriod (slots) = 10 * SealedMaxAdjustmentPeriod
```

```
ScaledAdjustmentRatio ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
```

```
SealedMaxAdjustmentStep ::= INTEGER(1..10)
-- Unit SlotMaxAdjustmentStep (dB) = SealedMaxAdjustmentStep / 10
```

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

### 9.3.7 Constant Definitions for NBAP

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

```
-- *****
--
-- IEs
--
-- *****
```

id-AICH-InformationItem-AuditRsp	INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd	INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 2
id-AllRLItem-DM-Rprt	INTEGER ::= 3
id-AllRLItem-DM-Rsp	INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt	INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp	INTEGER ::= 6
id-BCH-InformationItem-AuditRsp	INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd	INTEGER ::= 8
id-BCCH-ModificationTime	INTEGER ::= 9
id-BlockingPriorityIndicator	INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD	INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD	INTEGER ::= 12
id-Cause	INTEGER ::= 13
id-CCP-InformationItem-AuditRsp	INTEGER ::= 14
id-CCP-InformationList-AuditRsp	INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd	INTEGER ::= 16
id-Cell-InformationItem-AuditRsp	INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 18
id-Cell-InformationList-AuditRsp	INTEGER ::= 19
id-CellItem-CM-Rprt	INTEGER ::= 20
id-CellItem-CM-Rqst	INTEGER ::= 21

id-CellItem-CM-Rsp  
 id-CellParameterID  
 id-CFN  
 id-C-ID  
 id-CombiningItem-RL-AdditionFailureFDD  
 id-CombiningItem-RL-AdditionRspFDD  
 id-CombiningItem-RL-AdditionRspTDD  
 id-CombiningItem-RL-SetupFailureFDD  
 id-CombiningItem-RL-SetupRspFDD  
 id-CommonMeasurementObjectType-CM-Rprt  
 id-CommonMeasurementObjectType-CM-Rqst  
 id-CommonMeasurementObjectType-CM-Rsp  
 id-CommonMeasurementType  
 id-CommonPhysicalChannelID  
 id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  
 id-CommonPhysicalChannelType-CTCH-SetupRqstTDD  
 id-CommonTransportChannelType-CTCH-ReconfRqstTDD  
 id-CommonTransportChannelType-CTCH-SetupRsp  
 id-CommunicationControlPortID  
 id-CM-PatternInformationItem-CompressedModePrep  
 id-CM-PatternInformationList-CompressedModePrep  
 id-ConfigurationGenerationID  
 id-CRNC-CommunicationContextID  
 id-CriticalityDiagnostics  
 id-DCH-AddListIE-RL-ReconfReady  
 id-DCH-AddListIE-RL-ReconfRsp  
 id-DCH-AddList-RL-ReconfPrepFDD  
 id-DCH-AddList-RL-ReconfPrepTDD  
 id-DCH-AddList-RL-ReconfRqstFDD  
 id-DCH-AddList-RL-ReconfRqstTDD  
 id-DCH-DeleteList-RL-ReconfPrepFDD  
 id-DCH-DeleteList-RL-ReconfPrepTDD  
 id-DCH-DeleteList-RL-ReconfRqstFDD  
 id-DCH-DeleteList-RL-ReconfRqstTDD  
 id-DCH-InformationList-RL-SetupRqstFDD  
 id-DCH-InformationList-RL-SetupRqstTDD  
 id-DCH-InformationResponseItem-RL-SetupRspTDD  
 id-DCH-InformationResponseListIE-RL-SetupRspTDD  
 id-DCH-ModifyListIE-RL-ReconfReady  
 id-DCH-ModifyListIE-RL-ReconfRsp  
 id-DCH-ModifyList-RL-ReconfPrepFDD  
 id-DCH-ModifyList-RL-ReconfPrepTDD  
 id-DCH-ModifyList-RL-ReconfRqstFDD  
 id-DCH-ModifyList-RL-ReconfRqstTDD  
 id-DedicatedMeasurementObjectType  
 id-DedicatedMeasurementObjectType-DM-Rprt  
 id-DedicatedMeasurementObjectType-DM-Rqst  
 id-DedicatedMeasurementObjectType-DM-Rsp  
 id-DedicatedMeasurementType  
 id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD  
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD

INTEGER ::= 22  
 INTEGER ::= 23  
 INTEGER ::= 24  
 INTEGER ::= 25  
 INTEGER ::= 26  
 INTEGER ::= 27  
 INTEGER ::= 28  
 INTEGER ::= 29  
 INTEGER ::= 30  
 INTEGER ::= 31  
 INTEGER ::= 32  
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 INTEGER ::= 63  
 INTEGER ::= 64  
 INTEGER ::= 65  
 INTEGER ::= 66  
 INTEGER ::= 67  
 INTEGER ::= 68  
 INTEGER ::= 69  
 INTEGER ::= 70  
 INTEGER ::= 71  
 INTEGER ::= 72

id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 74
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 75
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 110
id-DSCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 111
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-DSCH-SetupListIE-RL-ReconfReady	INTEGER ::= 114
id-DSCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 115
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 119
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123

id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id- <del>Max</del> AdjustmentPeriod	INTEGER ::= 129
id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD	INTEGER ::= 142
id-NodeB-CommunicationContextID	INTEGER ::= 143
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153
id-PCH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 154
id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 157
id-PCH-InformationItem-AuditRsp	INTEGER ::= 158
id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 159
id-PD	INTEGER ::= 160
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 165
id-PICH-InformationItem-AuditRsp	INTEGER ::= 166
id-PICH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 167
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id-PowerAdjustmentType	INTEGER ::= 169
id-PRACH-InformationItem-AuditRsp	INTEGER ::= 170
id-PRACH-InformationItem-ResourceStatusInd	INTEGER ::= 171
id-PRACHItem-CTCH-SetupRqstFDD	INTEGER ::= 172
id-PRACHItem-CTCH-SetupRqstTDD	INTEGER ::= 173
id-PRACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 174

id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	INTEGER ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 180
id-PrimaryScramblingCode	INTEGER ::= 181
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 182
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 183
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 189
id-RACH-InformationItem-AuditRsp	INTEGER ::= 190
id-RACH-InformationItem-ResourceStatusInd	INTEGER ::= 191
id-RACHItem-CTCH-SetupRsp	INTEGER ::= 192
id-RACHItem-CM-Rprt	INTEGER ::= 193
id-RACHItem-CM-Rqst	INTEGER ::= 194
id-RACHItem-CM-Rsp	INTEGER ::= 195
id-RACH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	INTEGER ::= 197
id-ReportCharacteristics	INTEGER ::= 198
id-Reporting-Object-RL-FailureInd	INTEGER ::= 199
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 200
id-RL-ID	INTEGER ::= 201
id-RL-InformationItem-DM-Rprt	INTEGER ::= 202
id-RL-InformationItem-DM-Rqst	INTEGER ::= 203
id-RL-InformationItem-DM-Rsp	INTEGER ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	INTEGER ::= 205
id-RL-informationItem-RL-DeletionRqst	INTEGER ::= 206
id-RL-InformationItem-RL-FailureInd	INTEGER ::= 207
id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 212
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 213
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 215
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 221
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 225

id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 227
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 229
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 230
id-RLItem-DM-Rprt	INTEGER ::= 231
id-RLItem-DM-Rqst	INTEGER ::= 232
id-RLItem-DM-Rsp	INTEGER ::= 233
id-RLItem-RL-FailureInd	INTEGER ::= 234
id-RLItem-RL-RestoreInd	INTEGER ::= 235
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 236
id-RL-ReconfigurationFailureList-RL-ReconfFailure	INTEGER ::= 237
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 238
id-RL-SetItem-DM-Rqst	INTEGER ::= 239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 266
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 267
id-SFN	INTEGER ::= 268
id-ShutdownTimer	INTEGER ::= 269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273
id-SyncCase	INTEGER ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 275
id-T-Cell	INTEGER ::= 276



id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	INTEGER ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
id-TransmissionDiversityApplied	INTEGER ::= 279
id-UARFCNforNt	INTEGER ::= 280
id-UARFCNforNd	INTEGER ::= 281
id-UARFCNforNu	INTEGER ::= 282
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 283
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 286
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 287
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 292
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-USCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 311
id-USCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 312
id-USCH-SetupListIE-RL-ReconfReady	INTEGER ::= 313
id-USCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 314
<a href="#">id-AdjustmentRatio</a>	INTEGER ::= xxx

<b>CHANGE REQUEST</b>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>						
<b>25.433</b>	<b>CR</b>	<b>124R1</b>						
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>						
For submission to: <b>TSG RAN #8</b> <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;"><b>X</b></td></tr> <tr><td style="text-align: center;"></td></tr> </table> strategic <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;"></td></tr> <tr><td style="text-align: center;"></td></tr> </table> (for SMG use only) non-strategic <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;"></td></tr> <tr><td style="text-align: center;"></td></tr> </table>	<b>X</b>					
<b>X</b>								
Current Version: <b>3.1.0</b>								

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:** May 2000

**Subject:** Alignment of the Handling of the Diversity Indication IE between the Tabular Format and the ASN.1

**Work item:**

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

**Reason for change:** Currently the *Diversity Indication* IE is present in the (Successful) RL Response Information in the messages RL SETUP RESPONSE, RL SETUP FAILURE [FDD], RL ADDITION RESPONSE, and RL ADDITION FAILURE [FDD]. In these messages there is also a choice based on the value of the *Diversity Indication* IE. However, in the ASN.1 both the *Diversity Indication* IE and the choice based on the *Diversity Indication* IE is represented by an ASN.1 choice thus transferring BOTH the value of the *Diversity Indication* IE and the IE resulting from the choice. This is a way to represent the Tabular format in a more efficient way. Unfortunately there is an error in the ASN.1. In the ASN.1 the *Diversity Indication* choice is optional. This is incorrect since there shall always be either a reference *RL ID* IE or the *DCH Information Response* IE group. The *Diversity Indication* choice shall thus be mandatory.

Further more, when translated to the ASN.1 this resulted in a comment that "This IE is present only if the RL is not the first one in the RL Information". However, the choice shall be mandatory (as described above) but the *Diversity Indication* IE (which is not present on its own in the ASN.1) is optional (in the Tabular Format). The comment becomes misleading since when representing the IE and the choice it has to be mandatory. The current alternative "IE not present" is thus ambiguous. Instead it is proposed to have a choice alternative which uses the same type of explanation as the condition for the *Diversity Indication* IE, i.e. first or not first RL.

This CR corrects the above-described errors/ambiguities.

**Clauses affected:** 9.1.36.1, 9.1.37.1, 9.3.3, and 9.3.7

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

O&M specifications

→ List of CRs:

**Other  
comments:**

## 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
<b>RL Information Response</b>		1 to <maxnoofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M					
>UL interference level	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>Non Combining or <del>IE not present</del> First RL					YES	Ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		0 to <maxnoofDCHs>		Only one DCH per set of coordinated DCH shall be included	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;DSCH Information Response</b>		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
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.

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

## 9.1.37 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
<b>Unsuccessful RL Information Response</b>		1 to <maxnoo fRLs>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		0 to <maxnoo fRLs–1>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>UL interference level	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>					–	
>>Combining					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>Non Combining or <del>IE not present</del> First RL					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		0 to <maxnoo fDCHs>		Only one DCH per set of coordinated DCH shall be included	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;DSCH Information Response</b>		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

<b>Condition</b>	<b>Explanation</b>
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.

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

### 9.3.3 NBAP PDU Content Definitions

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

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

BEGIN

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

IMPORTS
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
    DedicatedMeasurementType,
```



```
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-ScramblingCode,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,  
PowerResumeMode,  
PRACH-Midamble,
```

PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,

```
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
UL-DPCCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
USCH-ID
FROM NBAP-IEs

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

id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersList-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRLItem-Set-DM-Rprt,
id-AllRLItem-Set-DM-Rsp,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
id-C-ID,
```

id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,

id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,

id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrFirstRLIENotPresentItem-RL-SetupFailureFDD,  
id-NonCombiningOrFirstRLIENotPresentItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstFDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstFDD,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,

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

id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,



id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,  
id-USCH-ModifyListIE-RL-ReconfReady,  
id-USCH-ModifyListIE-RL-ReconfRsp,  
id-USCH-SetupListIE-RL-ReconfReady,  
id-USCH-SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,  
maxNrOfCodes,  
maxNrOfCMPatterns,  
maxNrOfDCHs,  
maxNrOfDLCodes,  
maxNrOfDPCHs,  
maxNrOfDSCHs,  
maxNrOfFACHs,  
maxNrOfRLs,  
maxNrOfRLSets,  
maxNrOfPRACHs,  
maxNrOfPDSCHs,  
maxNrOfPUSCHs,  
maxNrOfPDSCHSets,  
maxNrOfPUSCHSets,  
maxNrOfSCCPCHs,

```

maxNrOfULTSs,
maxNrOfUSCHs,
maxFACHCell,
maxRACHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxLocalCellinNodeB,
maxSF,
maxIB,
maxIBSEG
FROM NBAP-Constants;

.
.
.
Several messages omitted.
.
.
.

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

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

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

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

```

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

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

```
RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  rL-ID RL-ID,
  rL-Set-ID RL-Set-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  diversityIndication-RL-SetupRspFDD DiversityIndication-RL-SetupRspFDD OPTIONAL,
  This IE is present only if the RL is not the first one in the RL Information
  dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspFDD OPTIONAL,
  sSDT-SupportIndicator SSDT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
  ...
}
```

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

```
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
  combining Combining-RL-SetupRspFDD,
  nonCombiningOrFirstRLIENotPresent NonCombiningOrFirstRLIENotPresent-RL-SetupRspFDD,
  ...
}
```

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

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

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

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

```
NonCombiningOrFirstRLIENotPresent-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIENotPresentIE-RL-SetupRspFDD }}
```

```
NonCombiningOrIENotPresentIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
```

```

| { ID id-NonCombiningOrFirstRLIENotPresentItem-RL-SetupRspFDD CRITICALITY ignore TYPE NonCombiningOrFirstRLIENotPresentItem-RL-SetupRspFDD
  PRESENCE mandatory },
| ...
| }

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

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

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

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

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

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

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

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

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

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

```

```

•
•
•
One message omitted.
•
•
•
-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****

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

RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID          CRITICALITY    ignore    TYPE    CRNC-CommunicationContextID
      PRESENCE    mandatory    }|
    { ID    id-NodeB-CommunicationContextID        CRITICALITY    ignore    TYPE    NodeB-CommunicationContextID
      PRESENCE    optional    }|
    { ID    id-CommunicationControlPortID         CRITICALITY    ignore    TYPE    CommunicationControlPortID
      PRESENCE    mandatory    }|
    { ID    id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
SetupFailureFDD    PRESENCE    mandatory    }|
    { ID    id-Successful-RL-InformationRespList-RL-SetupFailureFDD
SetupFailureFDD    PRESENCE    optional    }|
    { ID    id-CriticalityDiagnostics              CRITICALITY    ignore    TYPE    CriticalityDiagnostics
      PRESENCE    optional    },
    ...
}

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

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

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

Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID          RL-ID,

```

```

cause
iE-Extensions
OPTIONAL,
...
}

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

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

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

Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
rL-ID RL-ID,
rL-Set-ID RL-Set-ID,
ul-InterferenceLevel UL-InterferenceLevel,
diversityIndication DiversityIndication-RL-SetupFailureFDD OPTIONAL,
This IE is present if at least one of the RL is not the first one in the RL information
dSCH-InformationResponseList DSCH-InformationRespList-RL-SetupFailureFDD OPTIONAL,
sSDT-SupportIndicator SSDT-SupportIndicator,
iE-Extensions ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
OPTIONAL,
...
}

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

DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
combining Combining-RL-SetupFailureFDD,
nonCombiningOrFirstRLIENotPresent NonCombiningOrFirstRLIENotPresent-RL-SetupFailureFDD,
...
}

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

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

CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
rL-ID RL-ID,

```

```

    iE-Extensions
    ...
}

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

NonCombiningOrFirstRLIENotPresent-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIENotPresentIE-RL-SetupFailureFDD }}

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

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

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

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

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

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

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

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

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

```

```

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

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

.
.
.
Several messages omitted.
.
.
.

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

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

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

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

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

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

```



```

}
...
}
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                               RL-ID,
    rL-Set-ID                           RL-Set-ID,
    ul-InterferenceLevel                UL-InterferenceLevel,
    diversityIndication                 DiversityIndication-RL-AdditionRspFDD,
    sSDT-SupportIndicator               SSDT-SupportIndicator,
    iE-Extensions                       ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } }    OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uL-InterferenceList-RL-AdditionRspTDD          UL-InterferenceList-RL-AdditionRspTDD,
    diversityIndication  DiversityIndication-RL-AdditionRspTDD,
    dSCH-InfomationResponseList                    DSCH-InformationResponseList-RL-AdditionRspTDD    OPTIONAL,

```

```

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

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-USCH-InformationResponseListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE USCH-InformationResponseListIE-RL-AdditionRspTDD PRESENCE
mandatory },
    ...
}

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

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

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

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

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

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

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

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

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {

```

```

{ ID id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD
AdditionFailureFDD PRESENCE mandatory},
...
}

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

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

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

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

Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID RL-ID,
    rL-Set-ID RL-Set-ID,
    ul-InterferenceLevel UL-InterferenceLevel,
    diversityIndication DiversityIndication-RL-AdditionFailureFDD,
    sSDT-SupportIndicator SSDT-SupportIndicator,
    iE-Extensions ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs} }
    OPTIONAL,
    ...
}

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

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

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

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

```

```

}
...
}
CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                               RL-ID,
    iE-Extensions                       ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} }    OPTIONAL,
    ...
}
CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
Non-Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionFailureFDD }}
Non-CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore    TYPE Non-CombiningItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}
Non-CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponseList         DCH-InformationResponseList-RL-AdditionFailureFDD,
    iE-Extensions                       ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs} }    OPTIONAL,
    ...
}
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD
DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-ID                               DCH-ID,
    bindingID                             BindingID,
    transportLayerAddress                 TransportLayerAddress,
    iE-Extensions                       ProtocolExtensionContainer { { DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs} }
    OPTIONAL,
    ...
}
DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

## 9.3.7 Constant Definitions for NBAP

```

-- *****
--
-- Constant definitions
--
-- *****

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

BEGIN

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

id-audit                    INTEGER ::= 0
id-auditRequired           INTEGER ::= 1
id-blockResource           INTEGER ::= 2
id-cellDeletion            INTEGER ::= 3
id-cellReconfiguration     INTEGER ::= 4
id-cellSetup               INTEGER ::= 5
id-commonMeasurementFailure INTEGER ::= 6
id-commonMeasurementInitiation INTEGER ::= 7
id-commonMeasurementReport INTEGER ::= 8
id-commonMeasurementTermination INTEGER ::= 9
id-commonTransportChannelDelete INTEGER ::= 10
id-commonTransportChannelReconfigure INTEGER ::= 11
id-commonTransportChannelSetup INTEGER ::= 12
id-compressedModeCancellation INTEGER ::= 13
id-compressedModeCommit   INTEGER ::= 14
id-compressedModePreparation INTEGER ::= 15
id-dedicatedMeasurementFailure INTEGER ::= 16
id-dedicatedMeasurementInitiation INTEGER ::= 17
id-dedicatedMeasurementReport INTEGER ::= 18
id-dedicatedMeasurementTermination INTEGER ::= 19
id-downlinkPowerControl   INTEGER ::= 20
id-errorIndication        INTEGER ::= 21
id-physicalSharedChannelReconfiguration INTEGER ::= 37
id-privateMessage         INTEGER ::= 22
id-radioLinkAddition      INTEGER ::= 23
id-radioLinkDeletion      INTEGER ::= 24
id-radioLinkFailure       INTEGER ::= 25
id-radioLinkRestoration   INTEGER ::= 26
id-radioLinkSetup         INTEGER ::= 27
id-resourceStatusIndication INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation INTEGER ::= 29
id-synchronisedRadioLinkReconfigurationCommit INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation INTEGER ::= 31
id-systemInformationUpdate INTEGER ::= 32
id-unblockResource        INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration INTEGER ::= 34

-- *****
--
-- Extension constants
--
-- *****

maxPrivateIEs              INTEGER ::= 65535
maxProtocolExtensions      INTEGER ::= 65535
maxProtocolIEs            INTEGER ::= 65535

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

maxNrOfCodes              INTEGER ::= 10
maxNrOfCmpatterns        INTEGER ::= 8
maxNrOfDLCodes           INTEGER ::= 10
maxNrOfErrors            INTEGER ::= 10

```



```

maxNrOfTFs                INTEGER ::= 10
maxNrOfTFCs               INTEGER ::= 10
maxNrOfRLs                INTEGER ::= 10
maxNrOfRLSets            INTEGER ::= 10
maxNrOfDPCHs             INTEGER ::= 10
maxNrOfSCCPCHs          INTEGER ::= 10
maxNrOfPRACHs            INTEGER ::= 10
maxNrOfDCHs              INTEGER ::= 10
maxNrOfDSCHs            INTEGER ::= 10
maxNrOfFACHs            INTEGER ::= 10
maxNrOfCCTrCHs          INTEGER ::= 10
maxNrOfPDSCHs           INTEGER ::= 10
maxNrOfPUSCHs           INTEGER ::= 10
maxNrOfPDSCHSets        INTEGER ::= 10
maxNrOfPUSCHSets        INTEGER ::= 10
maxNrOfULTSs            INTEGER ::= 15
maxNrOfUSCHs            INTEGER ::= 10
maxSF                    INTEGER ::= 10
maxCellInNodeB          INTEGER ::= 10
maxCCPinNodeB           INTEGER ::= 10
maxCTFC-1               INTEGER ::= 10
maxLocalCellInNodeB    INTEGER ::= 10
maxRACHCell             INTEGER ::= 10
maxPRACHCell            INTEGER ::= 10
maxSCCPCHCell          INTEGER ::= 10
maxSCPICHCell           INTEGER ::= 10
maxTTI-count            INTEGER ::= 10
maxIBSEG                INTEGER ::= 10
maxIB                   INTEGER ::= 10
maxFACHCell             INTEGER ::= 10
maxRateMatching         INTEGER ::= 10
maxCodeNrComp-1        INTEGER ::= 10
maxNrOfCodeGroups      INTEGER ::= 10
maxNrOfTFCIGroups      INTEGER ::= 10
maxNrOfTFCI1Combs      INTEGER ::= 10
maxNrOfTFCI2Combs      INTEGER ::= 10
maxCTFC-DCH-1          INTEGER ::= 10
maxCTFC-DSCH-1         INTEGER ::= 10
maxNrOfSF               INTEGER ::= 8

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp                INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd      INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD     INTEGER ::= 2
id-AllRLItem-DM-Rprt                           INTEGER ::= 3
id-AllRLItem-DM-Rsp                             INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                       INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                       INTEGER ::= 6
id-BCH-InformationItem-AuditRsp                INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd      INTEGER ::= 8
id-BCH-ModificationTime                       INTEGER ::= 9
id-BlockingPriorityIndicator                   INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD                 INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD                 INTEGER ::= 12
id-Cause                                       INTEGER ::= 13
id-CCP-InformationItem-AuditRsp                INTEGER ::= 14
id-CCP-InformationList-AuditRsp               INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd      INTEGER ::= 16
id-Cell-InformationItem-AuditRsp              INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd     INTEGER ::= 18
id-Cell-InformationList-AuditRsp              INTEGER ::= 19
id-CellItem-CM-Rprt                            INTEGER ::= 20
id-CellItem-CM-Rqst                            INTEGER ::= 21
id-CellItem-CM-Rsp                             INTEGER ::= 22
id-CellParameterID                            INTEGER ::= 23
id-CFN                                         INTEGER ::= 24
id-C-ID                                        INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD        INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD            INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD            INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD           INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD              INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt        INTEGER ::= 31

```

id-CommonMeasurementObjectType-CM-Rqst	INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp	INTEGER ::= 33
id-CommonMeasurementType	INTEGER ::= 34
id-CommonPhysicalChannelID	INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
id-CommonTransportChannelType-CTCH-SetupRsp	INTEGER ::= 39
id-CommunicationControlPortID	INTEGER ::= 40
id-CM-PatternInformationItem-CompressedModePrep	INTEGER ::= 41
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id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddListIE-RL-ReconfReady	INTEGER ::= 46
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 47
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 60
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 61
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
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id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
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id-DedicatedMeasurementType	INTEGER ::= 70
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id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
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id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 74
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 75
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
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id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
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id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
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id-DSCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 111
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id-DSCH-SetupListIE-RL-ReconfReady	INTEGER ::= 114
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id-NodeBInformation-AuditRep	INTEGER ::= 135
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id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
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id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
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id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
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id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153
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id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
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id-PCH-InformationItem-AuditRsp	INTEGER ::= 158
id-PTCH-InformationItem-ResourceStatusInd	INTEGER ::= 159
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id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 163
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id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 178
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id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 180
id-PrimaryScramblingCode	INTEGER ::= 181
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 182
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 183
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187

id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 189
id-RACH-InformationItem-AuditRsp	INTEGER ::= 190
id-RACH-InformationItem-ResourceStatusInd	INTEGER ::= 191
id-RACHItem-CTCH-SetupRsp	INTEGER ::= 192
id-RACHItem-CM-Rprt	INTEGER ::= 193
id-RACHItem-CM-Rqst	INTEGER ::= 194
id-RACHItem-CM-Rsp	INTEGER ::= 195
id-RACH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	INTEGER ::= 197
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id-Reporting-Object-RL-FailureInd	INTEGER ::= 199
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 200
id-RL-ID	INTEGER ::= 201
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id-RL-InformationItem-DM-Rqst	INTEGER ::= 203
id-RL-InformationItem-DM-Rsp	INTEGER ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	INTEGER ::= 205
id-RL-informationItem-RL-DeletionRqst	INTEGER ::= 206
id-RL-InformationItem-RL-FailureInd	INTEGER ::= 207
id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 212
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 213
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 215
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 221
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 227
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 229
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 230
id-RLItem-DM-Rprt	INTEGER ::= 231
id-RLItem-DM-Rqst	INTEGER ::= 232
id-RLItem-DM-Rsp	INTEGER ::= 233
id-RLItem-RL-FailureInd	INTEGER ::= 234
id-RLItem-RL-RestoreInd	INTEGER ::= 235
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 236
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id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 238
id-RL-SetItem-DM-Rqst	INTEGER ::= 239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265

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id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273
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id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
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id-UARFCNforNd	INTEGER ::= 281
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id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 283
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 286
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 287
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 292
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
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id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-USCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 311
id-USCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 312
id-USCH-SetupListIE-RL-ReconfReady	INTEGER ::= 313
id-USCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 314

END

## CHANGE REQUEST

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

**25.433 CR 128R1**

Current Version: **3.1.0.**

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

↑ CR number as allocated by MCC support team

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

list expected approval meeting # here

↑

for approval

For information

Strategic

non-strategic

(for SMG use only)

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

**Proposed change affects:**

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

**Source:**

R-WG3

**Date:**

May , 2000

**Subject:**

Introduction of *First RLS Indicator 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

**Release:**

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

**Reason for change:**

CR128 R1

In addition to the previous revision of the CR, the value of "n" is signalled to the node-B in the Cell Setup procedure.

CR128

Already during several meetings the need for a First RL indicator IE in the NBAP/RNSAP RADIO LINK SETUP REQUEST message has been discussed, however so far this has not resulted in any updates to the standards.

With this CR, we propose inclusion of a *First RLS indicator IE* in the 2 indicated messages for controlling the DL TPC pattern before UL sync is achieved.

If a TPC pattern has to be sent on the DL when there is no UL sync, the most sensible pattern to use is all "1"s since this will not disturb any already ongoing innerloop signalling towards this UE.

However, there will most likely be a delay of several frames between the start of the DL and obtaining UL sync in the Node B for the first RL. (Note that this is a 2 step approach: the UE can only start UL transmission after it has received DL sync. The Node B can only obtain UL sync after the UE has started UL transmission.) Using an all "1"s pattern in this case, e.g. during 2 frames, could cause an increase of UE UL power by e.g. 30dB assuming a step size of 1dB. Such behaviour would seriously impact system performance.

In order to avoid these large power increases, it is proposed to introduce the *First RLS indicator IE* with the following behaviour:

- If the *First RLS indicator IE* is set to "first RLS", the Node B shall use a TPC pattern of n\*"01" + "1" in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The variable n is a

locally configured variable.

- For all other RLSs, the Node B shall use a TPC pattern of all "1"s in the DL until UL synchronisation is achieved on the Uu.

The first RLS indicator IE is proposed to be present at RL level since this will enable an SRNC to e.g. only use it for the RL which it assumes to achieve the earliest UL sync.

**Clauses affected:** 8.2.17, 9.1.23, 9.1.35, 9.2.2.x, 9.2.2.x, 9.3.3, 9.3.4, 9.3.7

**Other specs affected:**

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

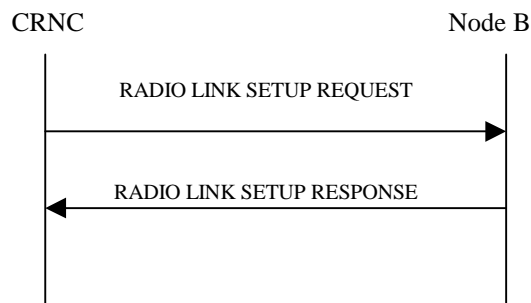
**Other comments:**

## 8.2.17 Radio Link Setup

### 8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

### 8.2.17.2 Successful Operation



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

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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

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

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

[FDD - The *Diversity Control Field IE* indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field IE* indicates, "may be combined with already existing RLs", then Node B shall decide for either of the alternatives. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator IE* for a DCH to be added, the Node B shall

- Treat all DCHs with the same value of this IE as a set of co-ordinated DCHs and
- Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator IE* in the new configuration

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector IE* set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].



[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

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

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

The Node B shall start the DL transmission using the initial DL power specified in the message. The DL power can then vary accordingly to the fast power control, but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.

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

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

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

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

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

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

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

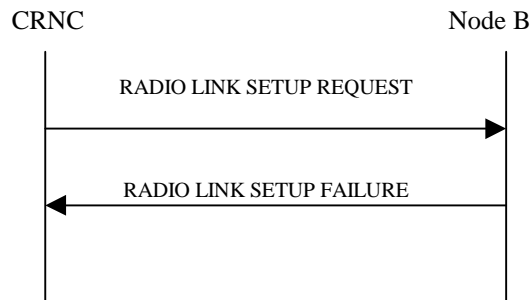
[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

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

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in 25.427.

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

### 8.2.17.3 Unsuccessful Operation



**Figure 2: Radio Link Setup procedure: Unsuccessful Operation**

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.

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

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

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

### 8.2.17.4 Abnormal Conditions

-

## 9.1.23 CELL SETUP REQUEST

## 9.1.23.1 FDD Message

IE/Group Name	Presence	Range	IE type and Reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
Local Cell Id	M				YES	reject
C-Id	M				YES	reject
Configuration Generation Id	M				YES	reject
T Cell	M				YES	reject
UARFCN	M			Corresponds to Nu [TS25.104]	YES	reject
UARFCN	M			Corresponds to Nd [TS25.104]		
Maximum transmission power	M				YES	reject
Primary scrambling code	M				YES	reject
DL TPC pattern 01 count	M				YES	reject
<b>Primary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
>Primary SCH Power	M		DL Power		–	
>TSTD Indicator	M				–	
<b>Secondary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
>Secondary SCH power	M		DL Power		–	
>TSTD Indicator	M				–	
<b>Primary CPICH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
>Primary CPICH power	M				–	
>Transmit Diversity Indicator	M				–	
<b>Secondary CPICH Information</b>		0..<maxSC PICHCell>			YES	reject
>Common Physical Channel ID	M				–	
>DL Scrambling code	M				–	
>FDD DL Channelisation Code Number	M				–	
>Secondary CPICH Power	M		DL Power		–	
>Transmit Diversity Indicator	M				–	
<b>Primary CCPCH Information</b>		1			YES	reject
>Common Physical Channel ID	M				–	
<b>&gt;BCH Information</b>		1			–	
>>Common Transport Channel ID	M				–	
>>BCH Power	M		DL Power		–	
>STTD Indicator	M				–	

<b>Range bound</b>	<b>Explanation</b>
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

## 9.1.35 RADIO LINK SETUP REQUEST

## 9.1.35.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	reject
Transaction ID	M				–	
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M				–	
>Min UL Channelisation Code length	M				–	
>Max Number of UL DPDCHs	C – CodeLen				–	
>puncture limit	M			For UL	–	
>TFCS	M			for UL	–	
>UL DPCCH Slot Format	M				–	
> UL SIR Target	M		UL SIR		–	
>Diversity mode	M				–	
>D Field Length	C – FB				–	
>SSDT cell ID Length	O				–	
>S Field Length	O				–	
<b>DL DPCH Information</b>					YES	reject
>TFCS	M			For DL	–	
>DL DPCH Slot Format	M				–	
>TFCI signalling mode	M				–	
>TFCI presence	C- SlotFormat				–	
>Multiplexing Position	M				–	
>PDSCH RL ID	C-DSCH		RL ID		–	
>PDSCH code mapping	C-DSCH				–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset	Power offset for the TFCI bits	–	
>>PO2	M		Power Offset	Power offset for the TPC bits	–	
>>PO3	M		Power Offset	Power offset for the pilot bits	–	
>FDD TPC DL Step Size	M				–	
<b>DCH Information</b>		1 to <maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Ind	O				–	
>Limited Power Increase	M				–	
>Transport Format Set	M			For UL	–	
>Transport Format Set	M			For DL	–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP mode	M				–	

>QE-Selector	M					
>ToAWS	M				-	
>ToAWE	M				-	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M				-	
>Transport Format Set	M			For DSCH	-	
>Frame handling Priority	M				-	
>ToAWS	M				-	
>ToAWE	M				-	
<b>RL Information</b>		1 to <maxnoof RLs>			EACH	notify
>RL ID	M				-	
>C-ID	M				-	
>First RLS Indicator	M				-	
>Frame Offset	M				-	
>Chip Offset	M				-	
>Propagation Delay	O				-	
>Diversity Control Field	C – NotFirstRL				-	
<b>&gt;DL Code Information</b>		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				-	
>Transmit Diversity Indicator	C – Diversity mode					

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

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

### 9.2.2.x First RLS Indicator

The First RLS Indicator IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>First RLS Indicator</u>			<u>ENUMERATED (first RLS, not first RLS)</u>	

### 9.2.2.x DL TPC pattern 01 count

The *DL TPC pattern 01 count* IE contains the value of the parameter *n*, which is used for determining the DL TPC pattern on Radio Links marked with “first RLS” by the *First RLS indicator* IE before UL synchronisation is achieved.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>DL TPC pattern 01 count</u>			<u>INTEGER(0..30,....)</u>	



```

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

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

BEGIN

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

IMPORTS
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
    DedicatedMeasurementType,
    DedicatedMeasurementValue,
    D-FieldLength,
    DiversityControlField,
    DiversityMode,
    DL-DPCH-SlotFormat,
    DL-FrameType,
    DL-or-Global-CapacityCredit,
    DL-Power,
    DL-ScramblingCode,
    DL-TPC-Pattern01Count,
    DPCH-ID,
    DSCH-ID,
-- to do
    DSCH-TFS,
    FDD-DL-ChannelisationCodeNumber,
    FDD-S-CCPCH-Offset,
    FDD-TPC-DownlinkStepSize,
    FirstRLS-Indicator,
    FrameHandlingPriority,
    FrameOffset,
    GapPeriod,
    GapPositionMode,
    IB-SG-DATA,
    IB-SG-POS,
    IB-SG-REP,
    IB-Type,

```

.....

FROM NBAP-Containers

id-AICH-InformationItem-AuditRsp,  
id-AICH-InformationItem-ResourceStatusInd,  
id-AICH-ParametersList-CTCH-ReconfRqstFDD,  
id-AllRLItem-DM-Rprt,  
id-AllRLItem-DM-Rsp,  
id-AllRLItem-Set-DM-Rprt,  
id-AllRLItem-Set-DM-Rsp,  
id-BCH-InformationItem-AuditRsp,  
id-BCH-InformationItem-ResourceStatusInd,  
id-BCCH-ModificationTime,  
id-BlockingPriorityIndicator,  
id-Case1Item-Cell-SetupRqstTDD,  
id-Case2Item-Cell-SetupRqstTDD,  
id-Cause,  
id-CCP-InformationItem-AuditRsp,  
id-CCP-InformationList-AuditRsp,  
id-CCP-InformationItem-ResourceStatusInd,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellItem-CM-Rprt,  
id-CellItem-CM-Rqst,  
id-CellItem-CM-Rsp,  
id-CellParameterID,  
id-CFN,  
id-C-ID,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,

id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DL-TPC-Pattern01Count,  
id-DSCH-AddItem-RL-ReconfPrepFDD,

.....

```

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

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

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-Local-Cell-ID                CRITICALITY  reject
    TYPE   Local-Cell-ID                    PRESENCE     mandatory  }|
    { ID    id-C-ID                          CRITICALITY  reject
    TYPE   C-ID                              PRESENCE     mandatory  }|
    { ID    id-ConfigurationGenerationID     CRITICALITY  reject
    TYPE   ConfigurationGenerationID         PRESENCE     mandatory  }|
    { ID    id-T-Cell                        CRITICALITY  reject
    TYPE   T-Cell                            PRESENCE     mandatory  }|
    { ID    id-UARFCNforNu                   CRITICALITY  reject
    TYPE   UARFCN                             PRESENCE     mandatory  }|
    { ID    id-UARFCNforNd                   CRITICALITY  reject
    TYPE   UARFCN                             PRESENCE     mandatory  }|
    { ID    id-MaximumTransmissionPower     CRITICALITY  reject
    TYPE   MaximumTransmissionPower         PRESENCE     mandatory  }|
    { ID    id-PrimaryScramblingCode         CRITICALITY  reject
    TYPE   PrimaryScramblingCode            PRESENCE     mandatory  }|
    { ID    id-DL-TPC-Pattern01Count        CRITICALITY  reject
    TYPE   DL-TPC-Pattern01Count            PRESENCE     mandatory  }|
    { ID    id-PrimarySCH-Information-Cell-SetupRqstFDD
    TYPE   PrimarySCH-Information-Cell-SetupRqstFDD
    PRESENCE     mandatory  }|
    { ID    id-SecondarySCH-Information-Cell-SetupRqstFDD
    TYPE   SecondarySCH-Information-Cell-SetupRqstFDD
    PRESENCE     mandatory  }|
    { ID    id-PrimaryCPICH-Information-Cell-SetupRqstFDD
    TYPE   PrimaryCPICH-Information-Cell-SetupRqstFDD
    PRESENCE     mandatory  }|
    { ID    id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD
    TYPE   SecondaryCPICH-InformationList-Cell-SetupRqstFDD
    PRESENCE     optional    }}
    { ID    id-PrimaryCCPCH-Information-Cell-SetupRqstFDD
    TYPE   PrimaryCCPCH-Information-Cell-SetupRqstFDD
    PRESENCE     mandatory  },
    ...
}
.....

```

```

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

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

RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE
      CRNC-CommunicationContextID          PRESENCE      mandatory } |
    { ID      id-UL-DPCH-Information-RL-SetupRqstFDD  CRITICALITY reject          TYPE
      UL-DPCH-Information-RL-SetupRqstFDD  PRESENCE      mandatory } |
    { ID      id-DL-DPCH-InformationList-RL-SetupRqstFDD  CRITICALITY reject          TYPE
      DL-DPCH-InformationList-RL-SetupRqstFDD  PRESENCE      mandatory } |
    { ID      id-DCH-InformationList-RL-SetupRqstFDD      CRITICALITY reject          TYPE
      DCH-InformationList-RL-SetupRqstFDD      PRESENCE      mandatory } |
    { ID      id-DSCH-InformationList-RL-SetupRqstFDD      CRITICALITY reject          TYPE
      DSCH-InformationList-RL-SetupRqstFDD      PRESENCE      optional } |
    { ID      id-RL-InformationList-RL-SetupRqstFDD      CRITICALITY notify          TYPE
      RL-InformationList-RL-SetupRqstFDD      PRESENCE      mandatory } ,
    ...
}

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

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

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

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                      TFCS,
    dl-DPCH-SlotFormat      DL-DPCH-SlotFormat,
    tFCI-SignallingMode      TFCI-SignallingMode,
    tFCI-Presence            TFCI-Presence          OPTIONAL,
    -- this IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16 --

    multiplexingPosition      MultiplexingPosition,
    pDSCH-RL-ID              RL-ID          OPTIONAL,
    -- This IE is present only if the DSCH Information group is present --
    pDSCH-CodeMapping        PDSCH-CodeMapping          OPTIONAL,
    -- This IE is present only if the DSCH Information group is present --
    powerOffsetInformation    PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize  FDD-TPC-DownlinkStepSize,
    iE-Extensions            ProtocolExtensionContainer { { DL-DPCH-Information-RL-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

```

```

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

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

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

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

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

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

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

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

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

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

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    c-ID                       C-ID,
    firstRLS-indicator         FirstRLS-Indicator,
    frameOffset                FrameOffset,
    chipOffset                 ChipOffset,
    propagationDelay           PropagationDelay          OPTIONAL,
    diversityControlField      DiversityControlField    OPTIONAL,
    -- This IE is present only if the RL is not the first one in the RL Information
    dl-CodeInformationList     DL-CodeInformationList-RL-SetupRqstFDD,
    initialDL-transmissionPower DL-Power,
    maximumDL-power           DL-Power,
    minimumDL-power           DL-Power,
}

```

```

sSDT-Cell-Identity          SSdT-Cell-Identity          OPTIONAL,
transmitDiversityIndicator  TransmitDiversityIndicator  OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions              ProtocolExtensionContainer { { RL-InformationItem-RL-
SetupRqstFDD-ExtIEs} }    OPTIONAL,
...
}

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```



```
DL-TPC-Pattern01Count ::= INTEGER (0..30,...)
```

```
DPCH-ID ::= INTEGER (0..239)
```

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

```
-- to do
```

```
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
```

```
DSCH-TFS ::= INTEGER
```

```
-- =====
-- F
-- =====

FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 255)
-- The maximum value is equal to the DL spreading factor -1--

FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [TS 25.211] --

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

FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS,
    ...
}

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

FrameOffset ::= INTEGER (0..255)
```

```
.....
id-DL-DPCH-InformationList-RL-SetupRqstTDD          INTEGER ::= 79
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD      INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD           INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD           INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD           INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst     INTEGER ::= 84
id-DLReferencePower                               INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst                INTEGER ::= 86
| id-DL-TPC-Pattern01Count                         INTEGER ::= xx
id-DSCH-AddItem-RL-ReconfPrepFDD                  INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD                  INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD                  INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD                  INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD               INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD               INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD               INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD               INTEGER ::= 94
id-DSCH-ID                                         INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD      INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD      INTEGER ::= 97
.....
```

## 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 133r2**

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN #8**  
list expected approval meeting # here ↑

for approval   
for information

strategic   
non-strategic  (for SMG use only)

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

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

**Source:** R-WG3 **Date:** May, 2000

**Subject:** Transport bearer related parameters.

**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 following parameters are considered transport bearer related rather than transport channel related: *CRC Presence Indicator, UL FP Mode, TOAWS, TOAWE.*

In the current version of the NBAP specification the above parameters are provided by the DRNC in RL SETUP REQUEST, RL RECONFIGURATION PREPARE and RL RECONFIGURATION REQUEST for every DCH to be set up, added or modified. In case of co-ordinated DCHs these parameters should apply to the set of co-ordinated DCHs and not to individual DCHs within the set. For a set of co-ordinated DCHs the DRNC should therefore only include these parameters once in the above mentioned messages. This CR proposes the necessary modifications to the procedure texts, message tabular formats and ASN.1.

**Clauses affected:** 8.2.17.2, 8.3.2.2, 8.3.5.2, 9.1.35.1, 9.1.35.2, 9.1.41.1, 9.1.41.2, 9.1.46.1, 9.1.46.2, 9.1.1.18, 9.3.3, 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:**

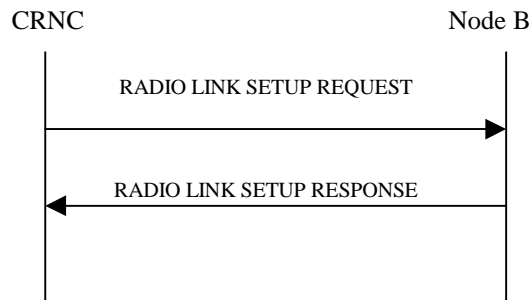


help.doc

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

## 8.2.17 Radio Link Setup

### 8.2.17.2 Successful Operation



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

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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

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

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE indicates, "may be combined with already existing RLs", then Node B shall decide for either of the alternatives. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Info IE* with multiple *DCH Specific Info* IEs then the *DCH Combination Indicator* IE for a DCH to be added, the Node B shall treat the DCHs in the *DCH Info IE* as a set of co-ordinated DCHs. The ~~DRNS~~Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

~~— Treat all DCHs with the same value of this IE as a set of co-ordinated DCHs and~~

~~— Include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration~~

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with a unique or no "*DCH Combination Ind*" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For a set of co-ordinated DCHs with the same "*DCH Combination Ind*" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

The *DRNSNode B* shall use the included *UL FP Mode IE* for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The *DRNSNode B* shall use the included *ToAWS IE* for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The *DRNSNode B* shall use the included *ToAWE IE* for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration

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

[FDD - The *UL SIR Target IE* included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

The Node B shall start the DL transmission using the initial DL power specified in the message. The DL power can then vary accordingly to the fast power control, but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.

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

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID IE* included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID IE* included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID IE* included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID IE* included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

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

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

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

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

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

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

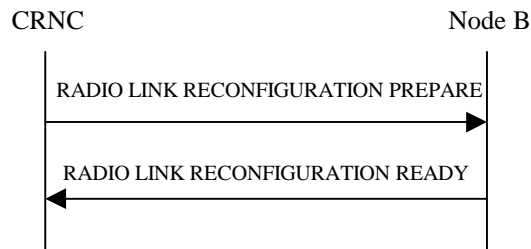
In case of coordinated DCH, the *Binding ID IE* and the *Transport Layer Address IE* shall be specify for only one of the coordinated DCHs.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in 25.427.

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

## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.2 Successful Operation



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

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

#### DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the Node B shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the Node B shall apply the new FP Mode in the Uplink of the user plane for ~~this~~ the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the Node B shall apply the new ToAWS in the user plane for ~~this~~ the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the Node B shall apply the new ToAWE in the user plane for ~~this~~ the DCH or the set of co-ordinated DCHs in the new configuration.

#### DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to InfoAdd* IE with multiple *DCH Specific Info* IEs then ~~the *DCH Combination Indicator* IE for a DCH to be added~~, the Node B shall treat the DCHs in



~~the DCHs to InfoAdd IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.~~

~~1. treat all DCHs with the same value of this IE as a set of coordinated DCHs and~~

~~2. include this DCH in the new configuration only if it can include all DCHs with the same value of the DCH Combination Indicator IE in the new configuration~~

[FDD - For DCHs ~~which do not belong to a set of co-ordinated DCHs~~ with ~~a unique or no "DCH Combination Ind"~~ and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427].]

[FDD - For ~~a set of co-ordinated~~ DCHs ~~with the same "DCH Combination Ind"~~ the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427].]

The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

The Node B shall use the included *UL FP Mode* IE for a DCH ~~or a set of co-ordinated DCHs~~ to be added as the new FP Mode in the Uplink of the user plane for ~~this the~~ DCH ~~or the set of co-ordinated DCHs~~ in the new configuration.

The Node B shall use the included *ToAWS* IE for a DCH ~~or a set of co-ordinated DCHs~~ to be added as the new Time of Arrival Window Start Point in the user plane for ~~this the~~ DCH ~~or the set of co-ordinated DCHs~~ in the new configuration.

The Node B shall use the included *ToAWE* IE for a DCH ~~or a set of co-ordinated DCHs~~ to be added as the new Time of Arrival Window End Point in the user plane for ~~this the~~ DCH ~~or the set of co-ordinated DCHs~~ in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

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

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

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

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

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

[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* IE for the UL when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

The Node B shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

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

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

#### **SSDT Activation/Deactivation:**

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

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

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

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

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the NodeB shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

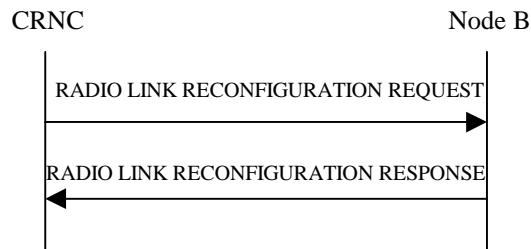
If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-to-be-added group or DCH-to-be-modified group shall be included only for one of the DCH in the set of coordinated DCHs.

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

## 8.3.5 Unsynchronised Radio Link Reconfiguration

### 8.3.5.2 Successful Operation



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

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION REQUEST to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

#### DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority IE* for a DCH to be modified, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify IE* with multiple *DCH Specific Info IEs* then the Node B shall treat the DCHs in the *DCHs to Modify IE* as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode IE* for a DCH or a set of co-ordinated DCHs to be modified, the Node B shall apply the new FP Mode in the Uplink of the user plane for ~~this the~~ DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS IE* for a DCH or a set of co-ordinated DCHs to be modified, the Node B shall apply the new ToAWS in the user plane for ~~this the~~ DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE IE* for a DCH or a set of co-ordinated DCHs to be modified, the Node B shall apply the new ToAWE in the user plane for ~~this the~~ DCH or the set of co-ordinated DCHs in the new configuration.

#### DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to InfoAdd IE* with multiple *DCH Specific Info IEs* then ~~the DCH Combination Indicator IE for a DCH to be added,~~ the Node B shall treat the DCHs in

~~the DCHs to InfoAdd IE as a set of co-ordinated DCHs. The DRNSNode B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.~~

~~1. Treat all DCHs with the same value of this IE as a set of coordinated DCHs and~~

~~2. Include this DCH in the new configuration only if it can include all DCHs with the same value of the DCH Combination Indicator IE in the new configuration.~~

[FDD - For DCHs ~~which do not belong to a set of co-ordinated DCHs~~ with ~~a unique or no "DCH Combination Ind"~~ and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For ~~a set of co-ordinated~~ DCHs ~~with the same "DCH Combination Ind"~~ the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

The Node B shall use the included *UL FP Mode* IE for a DCH ~~or a set of co-ordinated DCHs~~ to be added as the new FP Mode in the Uplink of the user plane for ~~this the~~ DCH ~~or the set of co-ordinated DCHs~~ in the new configuration.

The Node B shall use the included *ToAWS* IE for a DCH ~~or a set of co-ordinated DCHs~~ to be added as the new Time of Arrival Window Start Point in the user plane for ~~this the~~ DCH ~~or the set of co-ordinated DCHs~~ in the new configuration.

The Node B shall use the included *ToAWE* IE for a DCH ~~or a set of co-ordinated DCHs~~ to be added as the new Time of Arrival Window End Point in the user plane for ~~this the~~ DCH ~~or the set of co-ordinated DCHs~~ in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS (UL)* IE, the Node B shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS (DL)* IE, the Node B shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes DSCH information for the DSCHs to be added/modified/deleted then the NodeB shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

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

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

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

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes USCH information for the USCHs to be added/modified/deleted then the NodeB shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. – It shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the DCH-to-be-added group or DCH-to-be-modified group shall be included for one of the DCH in the set of coordinated DCHs.

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

## 9.1.35 RADIO LINK SETUP REQUEST

## 9.1.35.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				-	
Message Type	M				YES	reject
CRNC Communication Context ID	M				YES	reject
Transaction ID	M				-	
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M				-	
>Min UL Channelisation Code length	M				-	
>Max Number of UL DPDCHs	C – CodeLen				-	
>puncture limit	M			For UL	-	
>TFCS	M			for UL	-	
>UL DPCCH Slot Format	M				-	
> UL SIR Target	M		UL SIR		-	
>Diversity mode	M				-	
>D Field Length	C – FB				-	
>SSDT cell ID Length	O				-	
>S Field Length	O				-	
<b>DL DPCH Information</b>					YES	reject
>TFCS	M			For DL	-	
>DL DPCH Slot Format	M				-	
>TFCI signalling mode	M				-	
>TFCI presence	C- SlotFormat				-	
>Multiplexing Position	M				-	
>PDSCH RL ID	C-DSCH		RL ID		-	
>PDSCH code mapping	C-DSCH				-	
<b>&gt;Power Offset Information</b>		1			-	
>>PO1	M		Power Offset	Power offset for the TFCI bits	-	
>>PO2	M		Power Offset	Power offset for the TPC bits	-	
>>PO3	M		Power Offset	Power offset for the pilot bits	-	
>FDD TPC DL Step Size	M				-	
<b>DCH Information</b>		1 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	<u>M</u>				=	
>UL FP mode	<u>M</u>				=	
>ToAWS	<u>M</u>				=	
>ToAWE	<u>M</u>				=	
> <b>DCH Specific Info</b>		<u>1..&lt;maxno ofDCHs&gt;</u>			=	
>>DCH ID	M				-	
> <b>DCH Combination Ind</b>	<u>Q</u>				-	

>>Limited Power Increase	M				-	
>>Transport Format Set	M			For UL	-	
>>Transport Format Set	M			For DL	-	
>>Frame Handling Priority	M				-	
>>QE-Selector	M				=	
> Transport Bearer Info		±			=	
>>>Payload CRC Presence Indicator	M				-	
>>>UL FP mode	M				-	
>QE-Selector	M				-	
>>>ToAWS	M				-	
>>>ToAWE	M				-	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M				-	
>Transport Format Set	M			For DSCH	-	
>Frame handling Priority	M				-	
>ToAWS	M				-	
>ToAWE	M				-	
<b>RL Information</b>		1 to <maxnoof RLs>			EACH	notify
>RL ID	M				-	
>C-ID	M				-	
>Frame Offset	M				-	
>Chip Offset	M				-	
>Propagation Delay	O				-	
>Diversity Control Field	C – NotFirstRL				-	
<b>&gt;DL Code Information</b>		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				-	
>Transmit Diversity Indicator	C – Diversity mode					

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

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



## 9.1.35.2 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				–	
<b>UL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M				–	
>TFCI Coding	M				–	
>Puncture Limit	M				–	
<b>UL DPCH Information</b>		0 to <maxnoOf DPCH>			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				–	
<b>DL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M				–	
>TFCI Coding	M				–	
>Puncture Limit	M				–	
>TDD TPC DL Step Size	M				–	
<b>DL DPCH information</b>		0 to <maxnoOf DPCH>			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				–	
<b>DCH Information</b>		0 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	<u>M</u>				=	
>UL FP mode	<u>M</u>				=	

>ToAWS	M				=	
>ToAWE	M				=	
>DCH Specific Info		1..<maxno ofDCHs>			=	
>>DCH ID	M				-	
>>Limited Power Increase	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				-	
>Transport Bearer Info		1			=	
>>>Payload CRC Presence Indicator	M				-	
>>>UL FP mode	M				-	
>>>ToAWS	M				-	
>>>ToAWE	M				-	
<b>DSCH Information</b>		0 to <Maxnoof DSCHs>			GLOBAL	reject
>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				-	
<b>USCH Information</b>		0 to <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M				-	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	M			For USCH	-	
<b>RL Information</b>		1			YES	reject
>RL ID	M				-	
>C-ID	M				-	
>Frame Offset	M				-	
>Initial DL transmission Power	M		DL Power		-	
>Maximum DL power	M		DL Power		-	
>Minimum DL power	M		DL Power		-	

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

## 9.1.41 RADIO LINK RECONFIGURATION PREPARE

## 9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O				–	
>UL SIR Target	O		UL SIR			
>Min UL Channelisation Code Length	O				–	
>Max Number of UL DPDCHs	C – CodeLen				–	
>Puncture Limit	O			For UL	–	
>TFCS	O				–	
>UL DPCCH Slot Format	O				–	
>SSDT Cell Identity Length	O				–	
>S-Field Length	O				–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O				–	
>DL DPCH Slot Format	O				–	
>TFCI Signalling Mode	O				–	
>TFCI presence	C-Slot Format				–	
>Multiplexing Position	O				–	
>PDSCH code mapping	O					
>PDSCH RL ID	O		RL ID			
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	<u>O</u>				=	
>ToAWS	<u>O</u>				=	
>ToAWE	<u>O</u>				=	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			=	
>>DCH ID	M				–	
>>Transport Format Set	O			For the UL.	–	
>>Transport Format Set	O			For the DL.	–	
>>Frame Handling Priority	O				–	
<b>&gt;Transport Bearer Info</b>		1				
>>>UL FP Mode	<u>O</u>				–	
>>>ToAWS	<u>O</u>				–	
>>>ToAWE	<u>O</u>				–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	<u>M</u>				=	
>UL FP Mode	<u>M</u>				=	
>ToAWS	<u>M</u>				=	
>ToAWE	<u>M</u>				=	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			=	

		<i>Hs</i> >				
>>DCH ID	M				-	
>DCH Combination Ind	O				-	
>>Limited Power Increase	M				-	
>>Transport Format Set	M			For the UL.	-	
>>Transport Format Set	M			For the DL.	-	
>>Frame Handling Priority	M				-	
>>QE-Selector	M				=	
>Transport Bearer Info		$\pm$				
>>>Payload CRC Presence Indicator	M				-	
>>>UL FP Mode	M				-	
>QE-Selector	M					
>>>ToAWS	M				-	
>>>ToAWE	M				-	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M				-	
<b>DSCH to modify</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M				-	
>Transport Format Set	O			For the DL.	-	
>Frame Handling Priority	O				-	
>ToAWS	O				-	
>ToAWE	O				-	
<b>DSCH to add</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M				-	
>Transport Format Set	M			For the DL.	-	
>Frame Handling Priority	M				-	
>ToAWS	M				-	
>ToAWE	M				-	
<b>DSCH to Delete</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M				-	
<b>RL Information</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	reject
>RL ID	M				-	
<b>&gt;DL Code Information</b>		<i>0..&lt;max noofDL Codes&lt;</i>			-	
>>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 - SSSTIndON				-	

Condition	Explanation
SSTDIIndON	The IE may be present if the SSST Indication is set to 'SSST 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>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

## 9.1.41.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				–	
<b>UL CCTrCH Information</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;UL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	O				–	
>>Burst Type	O				–	
>>Midamble Shift	O				–	
>>Time Slot	O				–	
>>TDD Physical channel Offset	O				–	
>>Repetition Period	O				–	
>>Repetition Length	O				–	
>>TFCI Presence	O				–	
<b>DL CCTrCH Information</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>PunctureLimit					–	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	O				–	
>>Burst Type	O				–	
>>Midamble Shift	O				–	
>>Time Slot	O				–	
>>TDD Physical Channel Offset	O				–	
>>Repetition Period	O				–	
>>Repetition Length	O				–	
>>TFCI Presence	O				–	
<b>DCHs to Modify</b>		0..<max noofDC			GLOBAL	reject

		<i>Hs&gt;</i>				
>UL FP Mode	<u>O</u>				=	
>ToAWS	<u>O</u>				=	
>ToAWE	<u>O</u>				=	
>DCH Specific Info		<i>1..&lt;max noofDC Hs&gt;</i>			=	
__>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				-	
>Transport Bearer Info		<i>1</i>				
__>>UL FP Mode	<u>O</u>				-	
__>>ToAWS	<u>O</u>				-	
__>>ToAWE	<u>O</u>				-	
DCHs to Add		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	<u>M</u>				=	
>UL FP Mode	<u>M</u>				=	
>ToAWS	<u>M</u>				=	
>ToAWE	<u>M</u>				=	
>DCH Specific Info		<i>1..&lt;max noofDC Hs&gt;</i>			=	
__>DCH ID	M				-	
__>Limited Power Increase	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	<u>O</u>				-	
__>Transport Format Set	M			For the UL.	-	
__>Transport Format Set	M			For the DL.	-	
__>Frame Handling Priority	M				-	
>Transport Bearer Info		<i>1</i>				
__>>Payload CRC Presence Indicator	<u>M</u>				-	
__>>UL FP Mode	<u>M</u>				-	
__>>ToAWS	<u>M</u>				-	
__>>ToAWE	<u>M</u>				-	
DCHs to Delete		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M				-	
DSCH Information to modify		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject



>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				–	
<b>DSCH Information to add</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>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				–	
<b>DSCH Information to delete</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M				–	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
>Transport Format Set	O				–	
>CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	–	
<b>USCH Information to add</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M				–	
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M				–	
>Maximum Downlink Power	O		DL Power		–	
>Minimum Downlink Power	O		DL Power		–	

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

## 9.1.46 RADIO LINK RECONFIGURATION REQUEST

### 9.1.46.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M				-	
Message Type	M				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				-	
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O			For the UL.	-	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O			For the DL.	-	
>TFCI Signalling Mode	O				-	
>PDSCH code mapping	O					
>PDSCH RL ID	O		RL ID			
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O				=	
>ToAWS	O				=	
>ToAWE	O				=	
>DCH Specific Info		1..<maxn oofDCHs >			=	
>>DCH ID	M				-	
>>Transport Format Set	O			For the UL.	-	
>>Transport Format Set	O			For the DL.	-	
>>Frame Handling Priority	O				-	
>>Transport Bearer Info		1				
>>>UL FP Mode	O				-	
>>>ToAWS	O				-	
>>>ToAWE	O				-	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M				=	
>UL FP mode	M				=	
>ToAWS	M				=	
>ToAWE	M				=	
>DCH Specific Info		1..<maxn oofDCHs >			=	
>>DCH ID	M				-	
>>DCH Combination Ind	O				-	
>>Limited Power Increase	M				-	
>>Transport Format Set	M			For the UL.	-	
>>Transport Format Set	M			For the DL.	-	
>>Frame Handling Priority	M				-	
>>>QE-Selector	M				=	
>>>Transport Bearer Info		1				
>>>>Payload CRC Presence Indicator	M				-	
>>>>UL FP mode	M				-	
>>>>QE-Selector	M					
>>>>ToAWS	M				-	

<u>→→ToAWE</u>	M				–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
<b>DSCH to Modify</b>		<i>0..&lt;maxnoofDSCHs&gt;</i>			YES	reject
>DSCH ID	M				–	
>Transport Format Set	O			For the DL.	–	
>Frame Handling Priority	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
<b>DSCH to Add</b>		<i>0..&lt;maxnoofDSCHs&gt;</i>			YES	reject
>DSCH ID	M				–	
>Transport Format Set	M			For the DL.	–	
>Frame Handling Priority	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DSCH to Delete</b>		<i>0..1</i>			YES	reject
>DSCH ID	M				–	
<b>Radio Link Information</b>		<i>0..&lt;maxnoofRLs&gt;</i>			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>MaxnoofDSCHs</i>	Maximum number of DSCHs 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				YES	reject
Node B Communication Context ID	M				YES	reject
Transaction ID	M				-	
<b>UL CCTrCH Information</b>		0..<maxn oofCCTrCHs>			EACH	notify
>CCTrCH ID	M				-	
>TFCS	O				-	
>Puncture Limit	O				-	
<b>DL CCTrCH Information</b>		0..<maxn oofCCTrCHs>			EACH	notify
>CCTrCH ID	M				-	
>TFCS	O				-	
>Puncture Limit	O				-	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	<u>O</u>				=	
>ToAWS	<u>O</u>				=	
>ToAWE	<u>O</u>				=	
>DCH Specific Info		1..<maxn oofDCHs >			=	
>>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				-	
>Transport Bearer Info		1				
>>>UL FP Mode	<u>O</u>				-	
>>>ToAWS	<u>O</u>				-	
>>>ToAWE	<u>O</u>				-	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	<u>M</u>				=	
>UL FP Mode	<u>M</u>				=	
>ToAWS	<u>M</u>				=	
>ToAWE	<u>M</u>				=	
>DCH Specific Info		1..<maxn oofDCHs >			=	
>>DCH ID	M				-	
>>Limited Power Increase	M				-	
>>CCTrCH ID	M			UL CCTrCH in which the	-	

				DCH is mapped.		
<u>    </u> >CCTrCH ID	M			DL CCTrCH in which the DCH is mapped	–	
<u>    </u> >DCH Combination Ind	⊖				–	
<u>    </u> >Transport Format Set	M			For the UL.	–	
<u>    </u> >Transport Format Set	M			For the DL.	–	
<u>    </u> >Frame Handling Priority	M				–	
<u>    </u> >Transport Bearer Info		<u>    </u> ≠				
<u>    </u> >>Payload CRC Presence Indicator	M				–	
<u>    </u> >>UL FP Mode	M				–	
<u>    </u> >>ToAWS	M				–	
<u>    </u> >>ToAWE	M				–	
<b>DCHs to Delete</b>		0..<max number of DSCHs>			GLOBAL	reject
>DCH ID	M				–	
<b>DSCH Information to modify</b>		0 .. <Max number of DSCHs>			GLOBAL	reject
>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				–	
<b>DSCH Information to add</b>		0 .. <Max number of DSCHs>			GLOBAL	reject
>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				–	
<b>DSCH Information to delete</b>		0 .. <Max number of DSCHs>			GLOBAL	reject
>DSCH ID	M				–	
<b>USCH Information to modify</b>		0 .. <Max number of USCHs>			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	O				–	
<b>USCH Information to add</b>		0 .. <Max number of USCHs>			GLOBAL	reject

		USCHs>				
>USCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M				–	
<b>USCH Information to delete</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M				–	
<b>RL Information</b>		0..1			YES	reject
>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

### 9.2.1.18 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)	



### 9.3.3 NBAP PDU Content Definitions

```

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

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

BEGIN

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

IMPORTS
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CTrCH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
    DedicatedMeasurementType,

```

DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-ScramblingCode,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,  
PowerResumeMode,  
PRACH-Midamble,

PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,

```
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
UL-DPCCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
USCH-ID
FROM NBAP-IEs

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

id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersList-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRLItem-Set-DM-Rprt,
id-AllRLItem-Set-DM-Rsp,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
id-C-ID,
```

id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,

id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,

id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstFDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstFDD,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,

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



id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,

id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,  
id-USCH-ModifyListIE-RL-ReconfReady,  
id-USCH-ModifyListIE-RL-ReconfRsp,  
id-USCH-SetupListIE-RL-ReconfReady,  
id-USCH-SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,  
maxNrOfCodes,  
maxNrOfCMPatterns,  
maxNrOfDCHs,  
maxNrOfDLCodes,  
maxNrOfDPCHs,  
maxNrOfDSCHs,  
maxNrOfFACHs,  
maxNrOfRLs,  
maxNrOfRLSets,  
maxNrOfPRACHs,  
maxNrOfPDSCHs,  
maxNrOfPUSCHs,  
maxNrOfPDSCHSets,  
maxNrOfPUSCHSets,  
maxNrOfSCCPCHs,

```
maxNrOfULTSs,  
maxNrOfUSCHs,  
maxFACHCell,  
maxRACHCell,  
maxPRACHCell,  
maxSCCPCHCell,  
maxSCPICHCell,  
maxCellinNodeB,  
maxCCPinNodeB,  
maxLocalCellinNodeB,  
maxSF,  
maxIB,  
maxIBSEG  
FROM NBAP-Constants;
```

**[CR writer's comment: Unmodified message modules are not included in the CR.]**

```

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

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

RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE CRNC-CommunicationContextID          PRESENCE
    mandatory }|
    { ID      id-UL-DPCH-Information-RL-SetupRqstFDD  CRITICALITY reject          TYPE UL-DPCH-Information-RL-SetupRqstFDD  PRESENCE
    mandatory }|
    { ID      id-DL-DPCH-Information-RL-SetupRqstFDD  CRITICALITY reject          TYPE DL-DPCH-Information-RL-SetupRqstFDD  PRESENCE
    mandatory }|
    { ID      id-DCH-InformationList-RL-SetupRqstFDD  CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstFDD  PRESENCE
    mandatory }|
    { ID      id-DSCH-InformationList-RL-SetupRqstFDD  CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstFDD  PRESENCE
    optional  }|
    { ID      id-RL-InformationList-RL-SetupRqstFDD  CRITICALITY notify          TYPE RL-InformationList-RL-SetupRqstFDD  PRESENCE
    mandatory },
    ...
}

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

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

```

```

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

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

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

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

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

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

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                              ToAWS,
    toAWE                              ToAWE,
    dCH-SpecificInformationList       DCH-SpecificInformationList-RL-SetupRqstFDD,
    transportBearerItem               TransportBearerItem-RL-SetupRqstFDD,
    ...
}

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

```

```

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

```

```

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

```

```

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

```

```

TransportBearerItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

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

```

```

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

```

```

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

```

```

RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF

```

```

ProtocolIE-Container{{ RL-InformationItemIE-RL-SetupRqstFDD }}

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

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

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

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

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

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

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

RadioLinkSetupRequestTDD ::= SEQUENCE {

```

```

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

RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE CRNC-CommunicationContextID          PRESENCE
    mandatory }|
  { ID    id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE
    optional }|
  { ID    id-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE UL-DPCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
  { ID    id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE
    optional }|
  { ID    id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-DPCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
  { ID    id-DCH-InformationList-RL-SetupRqstTDD    CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstTDD    PRESENCE
    optional }|
  { ID    id-DSCH-InformationList-RL-SetupRqstTDD   CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstTDD   PRESENCE
    optional }|
  { ID    id-USCH-InformationList-RL-SetupRqstTDD   CRITICALITY reject          TYPE USCH-InformationList-RL-SetupRqstTDD   PRESENCE
    optional }|
  { ID    id-RL-Information-RL-SetupRqstTDD         CRITICALITY reject          TYPE RL-Information-RL-SetupRqstTDD         PRESENCE
    mandatory },
  ...
}

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

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

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

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

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

```



```

}

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

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

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

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

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

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

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

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

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,

```

```

midambleShift          MidambleShift,
timeSlot              TimeSlot,
tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
repetitionPeriod      RepetitionPeriod,
repetitionLength      RepetitionLength,
tFCI-Presence         TFCI-Presence,
iE-Extensions        ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}

```

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

```
...
}
```

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

```

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
  ul-FP-Mode                    UL-FP-Mode,
  toAWS                         ToAWS,
  toAWE                         ToAWE,
  dCH-SpecificInformationList  DCH-SpecificInformationList-RL-SetupRqstTDD,
  transportBearerItem          TransportBearerItem-RL-SetupRqstTDD,
  ...
}

```

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

```

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

```

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

```
...
}
```

```

TransportBearerItem-RL-SetupRqstTDD ::= SEQUENCE {
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,

```

```

ul-FP-Mode UL-FP-Mode,
toAWS ToAWS,
toAWE ToAWE,
iE-Extensions ProtocolExtensionContainer { { TransportBearerItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
...
}

```

```

TransportBearerItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

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

```

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

```

```

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

```

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

```

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

```

```

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

```

```

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

```

```
}  
RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

*[CR writer's comment: Unmodified message modules are not included in the CR.]*

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

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

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

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

```
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode          OPTIONAL,
    ul-SIR-Target              UL-SIR                     OPTIONAL,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
    maxNrOfUL-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL,
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4
    ul-PunctureLimit          PunctureLimit             OPTIONAL,
    tFCS                      TFCS                      OPTIONAL,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat        OPTIONAL,
    sSDT-CellIDLength          SSdT-CellID-Length         OPTIONAL,
    s-FieldLength              S-FieldLength              OPTIONAL,
```

```

    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

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

DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-TransportFormatSet  TransportFormatSet      OPTIONAL,
    dl-TransportFormatSet  TransportFormatSet      OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority    OPTIONAL,
    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-ModifyTransportBearerItem-RL-ReconfPrepFDD ::= SEQUENCE {
  ul-FP-Mode          UL-FP-Mode,
  toAWS              ToAWS,
  toAWE              ToAWE,
  iE-Extensions      ProtocolExtensionContainer { { DCH-ModifyTransportBearerItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
  ...
}

DCH-ModifyTransportBearerItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
  payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
  ul-FP-Mode                        UL-FP-Mode,
  toAWS                             ToAWS,
  toAWE                             ToAWE,
  dCH-SpecificInformationList       DCH-AddSpecificInformationList-RL-ReconfPrepFDD,
  transportBearerItem               DCH-AddTransportBearerItem-RL-ReconfPrepFDD,
  ...
}

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

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

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

DCH-AddTransportBearerItem-RL-ReconfPrepFDD ::= SEQUENCE {
  payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,

```

```

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

```

```

DCH-AddTransportBearerItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

DL-DPCH-InformationItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode  OPTIONAL,
    burstType        BurstType  OPTIONAL,
    midambleShift    MidambleShift  OPTIONAL,
    timeSlot         TimeSlot  OPTIONAL,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset  OPTIONAL,
    repetitionPeriod  RepetitionPeriod  OPTIONAL,
    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..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD
| DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {

```

```

ul-FP-Mode          UL-FP-Mode          OPTIONAL,
toAWS               ToAWS               OPTIONAL,
toAWE               ToAWE               OPTIONAL,
dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
transportBearerItem DCH-ModifyTransportBearerItem-RL-ReconfPrepTDD,
...
}

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

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-cCTrCH-ID          CCTrCH-ID                OPTIONAL,
    dl-cCTrCH-ID          CCTrCH-ID                OPTIONAL,
    ul-TransportFormatSet TransportFormatSet        OPTIONAL,
    dl-TransportFormatSet TransportFormatSet        OPTIONAL,
    frameHandlingPriority FrameHandlingPriority    OPTIONAL,
    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-ModifyTransportBearerItem-RL-ReconfPrepTDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode,
    toAWS               ToAWS,
    toAWE               ToAWE,
    iE-Extensions       ProtocolExtensionContainer { { DCH-ModifyTransportBearerItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-ModifyTransportBearerItem-RL-ReconfPrepTDD-ExtIEs  RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                UL-FP-Mode,
    toAWS                     ToAWS,
    toAWE                     ToAWE,
    dCH-SpecificInformationList DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    transportBearerItem        DCH-AddTransportBearerItem-RL-ReconfPrepTDD,
    ...
}

```

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

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

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

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

~~DCH-AddTransportBearerItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {~~  
~~...~~  
~~}~~

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

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

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

DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD

```

DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cTrCH-ID                CTrCH-ID                OPTIONAL,
    transportFormatSet      TransportFormatSet      OPTIONAL,
    frameHandlingPriority    FrameHandlingPriority    OPTIONAL,
    toAWS                    ToAWS                    OPTIONAL,
    toAWE                    ToAWE                    OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DSCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfPrepTDD

```

```

DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cTrCH-ID                CTrCH-ID,
    transportFormatSet      TransportFormatSet,
    frameHandlingPriority    FrameHandlingPriority    OPTIONAL,
    toAWS                    ToAWS,
    toAWE                    ToAWE,
    iE-Extensions           ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD

```

```

DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions           ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD

```

```

USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet      TransportFormatSet      OPTIONAL,
    cTrCH-ID                CTrCH-ID                OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
}

```

```

}
...
}
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfPrepTDD
USCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }  OPTIONAL,
    ...
}
USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfPrepTDD
USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }  OPTIONAL,
    ...
}
USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
RL-Information-RL-ReconfPrepTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    maxDL-Power          DL-Power          OPTIONAL,
    minDL-Power          DL-Power          OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { RL-Information-RL-ReconfPrepTDD-ExtIEs} }  OPTIONAL,
    ...
}
RL-Information-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

**[CR writer's comment: Unmodified message modules are not included in the CR.]**



```
-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST FDD
--
-- *****
```

```
RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationRequestFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}    OPTIONAL,
    ...
}
```

```
RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID          CRITICALITY  reject      TYPE      NodeB-CommunicationContextID          PRESENCE mandatory
    } |
    { ID      id-UL-DPCH-Information-RL-ReconfRqstFDD  CRITICALITY  reject      TYPE      UL-DPCH-Information-RL-ReconfRqstFDD    PRESENCE
    optional } |
    { ID      id-DL-DPCH-Information-RL-ReconfRqstFDD  CRITICALITY  reject      TYPE      DL-DPCH-Information-RL-ReconfRqstFDD    PRESENCE
    optional } |
    { ID      id-DCH-ModifyList-RL-ReconfRqstFDD      CRITICALITY  reject      TYPE      DCH-ModifyList-RL-ReconfRqstFDD        PRESENCE
    optional } |
    { ID      id-DCH-AddList-RL-ReconfRqstFDD         CRITICALITY  reject      TYPE      DCH-AddList-RL-ReconfRqstFDD          PRESENCE
    optional } |
    { ID      id-DCH-DeleteList-RL-ReconfRqstFDD      CRITICALITY  reject      TYPE      DCH-DeleteList-RL-ReconfRqstFDD       PRESENCE
    optional } |
    { ID      id-DSCH-ModifyList-RL-ReconfRqstFDD     CRITICALITY  reject      TYPE      DSCH-ModifyList-RL-ReconfRqstFDD      PRESENCE
    optional } |
    { ID      id-DSCH-AddList-RL-ReconfRqstFDD        CRITICALITY  reject      TYPE      DSCH-AddList-RL-ReconfRqstFDD        PRESENCE
    optional } |
    { ID      id-DSCH-DeleteList-RL-ReconfRqstFDD     CRITICALITY  reject      TYPE      DSCH-DeleteList-RL-ReconfRqstFDD     PRESENCE
    optional } |
    { ID      id-RL-InformationList-RL-ReconfRqstFDD  CRITICALITY  reject      TYPE      RL-InformationList-RL-ReconfRqstFDD    PRESENCE
    optional },
    ...
}
```

```
RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-TFCS          TFCS          OPTIONAL,
    iE-Extensions   ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}
```

```
UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    dl-TFCS                TFCS                OPTIONAL,
    tFCI-SignallingMode    TFCI-SignallingMode    OPTIONAL,
    pDSCH-CodeMapping       PDSCH-CodeMapping    OPTIONAL,
    pDSCH-RL-ID            RL-ID                OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DCH-ModifyList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstFDD
```

```
DCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-FP-Mode                UL-FP-Mode                OPTIONAL,
    toAWS                    ToAWS                    OPTIONAL,
    toAWE                    ToAWE                    OPTIONAL,
    dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfRqstFDD,
    transportBearerItem       DCH-ModifyTransportBearerItem-RL-ReconfRqstFDD,
    ...
}
```

```
DCH-ModifySpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstFDD
```

```
DCH-ModifySpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    ul-TransportFormatSet      TransportFormatSet      OPTIONAL,
    dl-TransportFormatSet      TransportFormatSet      OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority    OPTIONAL,
    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-ModifyTransportBearerItem-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-FP-Mode                UL-FP-Mode,
    toAWS                    ToAWS,
    toAWE                    ToAWE,
    iE-Extensions            ProtocolExtensionContainer { { DCH-ModifyTransportBearerItem-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
```

```

DCH-ModifyTransportBearerItem-RL-ReconfRqstFDD-ExtIEs-RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

DCH-AddList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstFDD

```

DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    dCH-SpecificInformationList       DCH-AddSpecificInformationList-RL-ReconfRqstFDD,
    transportBearerItem               DCH-AddTransportBearerItem-RL-ReconfRqstFDD,
    ...
}

```

DCH-AddSpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstFDD

```

DCH-AddSpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                            DCH-ID,
    dCH-CombinationInd                DCH-CombinationInd OPTIONAL,
    limitedPowerIncrease              LimitedPowerIncrease,
    ul-TransportFormatSet             TransportFormatSet,
    dl-TransportFormatSet             TransportFormatSet,
    frameHandlingPriority              FrameHandlingPriority,
    payloadCRC-PresenceIndicator       PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    qE-Selector                       QE-Selector,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    iE-Extensions                     ProtocolExtensionContainer { { DCH-Add-RL-ReconfRqstFDDItem-ExtIEs } } OPTIONAL,
    ...
}

```

```

DCH-Add-RL-ReconfRqstFDDItem-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DCH-AddTransportBearerItem-RL-ReconfRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    iE-Extensions                     ProtocolExtensionContainer { { DCH-AddTransportBearerItem-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DCH-AddTransportBearerItem-RL-ReconfRqstFDD-ExtIEs-RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD

DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                               DCH-ID,
    iE-Extensions                         ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-ModifyList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-ModifyItemIE-RL-ReconfRqstFDD }}

DSCH-ModifyItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DSCH-ModifyItem-RL-ReconfRqstFDD      CRITICALITY reject          TYPE      DSCH-ModifyItem-RL-ReconfRqstFDD      PRESENCE mandatory},
    ...
}

DSCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dSCH-ID                               DSCH-ID,
    dl-TransportFormatSet                 TransportFormatSet          OPTIONAL,
    frameHandlingPriority                  FrameHandlingPriority       OPTIONAL,
    toAWS                                  ToAWS                       OPTIONAL,
    toAWE                                  ToAWE                       OPTIONAL,
    iE-Extensions                         ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

DSCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-AddList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-AddItemIE-RL-ReconfRqstFDD }}

DSCH-AddItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DSCH-AddItem-RL-ReconfRqstFDD      CRITICALITY reject          TYPE      DSCH-AddItem-RL-ReconfRqstFDD      PRESENCE mandatory},
    ...
}

DSCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dSCH-ID                               DSCH-ID,
    dl-TransportFormatSet                 TransportFormatSet,
    frameHandlingPriority                  FrameHandlingPriority,
    toAWS                                  ToAWS,
    toAWE                                  ToAWE,
    iE-Extensions                         ProtocolExtensionContainer { { DSCH-AddItem-RL-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

```

```

DSCH-AddItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-DeleteItemIE-RL-ReconfRqstFDD }}

DSCH-DeleteItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DSCH-DeleteItem-RL-ReconfRqstFDD      CRITICALITY reject          TYPE      DSCH-DeleteItem-RL-ReconfRqstFDD  PRESENCE mandatory},
  ...
}

DSCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  iE-Extensions    ProtocolExtensionContainer { { DSCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs } }  OPTIONAL,
  ...
}

DSCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-RL-ReconfRqstFDD}}

RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-RL-InformationItem-RL-ReconfRqstFDD      CRITICALITY      reject          TYPE RL-InformationItem-RL-ReconfRqstFDD      PRESENCE
    mandatory},
  ...
}

RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  maxDL-Power    DL-Power      OPTIONAL,
  minDL-Power    DL-Power      OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstFDD-ExtIEs } }  OPTIONAL,
  ...
}

RL-InformationItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
  protocolIEs      ProtocolIE-Container      {{RadioLinkReconfigurationRequestTDD-IEs}},

```

```

    protocolExtensions      ProtocolExtensionContainer  {{RadioLinkReconfigurationRequestTDD-Extensions}}  OPTIONAL,
    ...
}

RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-NodeB-CommunicationContextID          CRITICALITY  reject      TYPE  NodeB-CommunicationContextID
  PRESENCE  mandatory } |
  { ID      id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD  CRITICALITY  notify      TYPE  UL-CCTrCH-InformationList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD  CRITICALITY  notify      TYPE  DL-CCTrCH-InformationList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DCH-ModifyList-RL-ReconfRqstTDD           CRITICALITY  reject      TYPE  DCH-ModifyList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DCH-AddList-RL-ReconfRqstTDD              CRITICALITY  reject      TYPE  DCH-AddList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DCH-DeleteList-RL-ReconfRqstTDD           CRITICALITY  reject      TYPE  DCH-DeleteList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-ModifyList-RL-ReconfRqstTDD  CRITICALITY  reject      TYPE  DSCH-Information-ModifyList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-AddList-RL-ReconfRqstTDD   CRITICALITY  reject      TYPE  DSCH-Information-AddList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-DeleteList-RL-ReconfRqstTDD CRITICALITY  reject      TYPE  DSCH-Information-DeleteList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-ModifyList-RL-ReconfRqstTDD CRITICALITY  reject      TYPE  USCH-Information-ModifyList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-AddList-RL-ReconfRqstTDD   CRITICALITY  reject      TYPE  USCH-Information-AddList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-DeleteList-RL-ReconfRqstTDD CRITICALITY  reject      TYPE  USCH-Information-DeleteList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-RL-Information-RL-ReconfRqstTDD           CRITICALITY  ignore     TYPE  RL-Information-RL-ReconfRqstTDD           PRESENCE
  optional },
  ...
}

RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-CCTrCH-InformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ UL-CCTrCH-InformationItemIE-RL-ReconfRqstTDD}}

UL-CCTrCH-InformationItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID      id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD  CRITICALITY  notify      TYPE  UL-CCTrCH-InformationItem-RL-ReconfRqstTDD
  PRESENCE  mandatory},
  ...
}

UL-CCTrCH-InformationItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS          OPTIONAL,
  punctureLimit     PunctureLimit  OPTIONAL,
}

```

```

iE-Extensions          ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

UL-CCTrCH-InformationItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCH-InformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-InformationItemIE-RL-
ReconfRqstTDD}}

DL-CCTrCH-InformationItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID      id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD          CRITICALITY      notify          TYPE DL-CCTrCH-InformationItem-RL-ReconfRqstTDD
PRESENCE      mandatory},
...
}

DL-CCTrCH-InformationItem-RL-ReconfRqstTDD ::= SEQUENCE {
cCTrCH-ID          CCTrCH-ID,
tFCS              TFCS          OPTIONAL,
punctureLimit     PunctureLimit  OPTIONAL,
iE-Extensions     ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

DL-CCTrCH-InformationItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstTDD

DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
ul-FP-Mode          UL-FP-Mode          OPTIONAL,
toAWS              ToAWS          OPTIONAL,
toAWE              ToAWE          OPTIONAL,
dCH-SpecificInformationList      DCH-ModifySpecificInformationList-RL-ReconfRqstTDD,
transportBearerItem      DCH-ModifyTransportBearerItem-RL-ReconfRqstTDD,
...
}

DCH-ModifySpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstTDD

DCH-ModifySpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
dCH-ID          DCH-ID,
ul-CCTrCH-ID    CCTrCH-ID          OPTIONAL,
dl-CCTrCH-ID    CCTrCH-ID          OPTIONAL,
ul-TransportFormatSet      TransportFormatSet      OPTIONAL,
dl-TransportFormatSet      TransportFormatSet      OPTIONAL,
frameHandlingPriority      FrameHandlingPriority      OPTIONAL,
ul-FP-Mode          UL-FP-Mode          OPTIONAL,
toAWS              ToAWS          OPTIONAL,

```

```

toAWE
iE-Extensions
...
}

```

~~ToAWE~~ ~~OPTIONAL,~~

```

ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs } }
OPTIONAL,

```

```

DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

DCH-ModifyTransportBearerItem-RL-ReconfRqstTDD ::= SEQUENCE {
ul-FP-Mode UL-FP-Mode,
toAWS ToAWS,
toAWE ToAWE,
iE-Extensions ProtocolExtensionContainer { { DCH-ModifyTransportBearerItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

```

```

DCH-ModifyTransportBearerItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

DCH-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstTDD

```

```

DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode UL-FP-Mode,
toAWS ToAWS,
toAWE ToAWE,
dCH-SpecificInformationList DCH-AddSpecificInformationList-RL-ReconfRqstTDD,
transportBearerItem DCH-AddTransportBearerItem-RL-ReconfRqstTDD,
...
}

```

```

DCH-AddSpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstTDD

```

```

DCH-AddSpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
dCH-ID DCH-ID,
limitedPowerIncrease LimitedPowerIncrease,
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-AddItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

```



```
DCH-AddItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DCH-AddTransportBearerItem-RL-ReconfRqstTDD ::= SEQUENCE {
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
  ul-FP-Mode UL-FP-Mode,
  toAWS ToAWS,
  toAWE ToAWE,
  iE-Extensions ProtocolExtensionContainer { { DCH-AddTransportBearerItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
DCH-AddTransportBearerItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD
```

```
DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  iE-Extensions ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DSCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfRqstTDD
```

```
DSCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  cCTrCH-ID CCTrCH-ID OPTIONAL,
  transportFormatSet TransportFormatSet OPTIONAL,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
  toAWS ToAWS OPTIONAL,
  toAWE ToAWE OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DSCH-Information-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfRqstTDD
```

```
DSCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
  dSCH-ID DSCH-ID,
```

```

cCtRCH-ID          CCTrCH-ID,
transportFormatSet TransportFormatSet,
frameHandlingPriority FrameHandlingPriority    OPTIONAL,
toAWS              ToAWS,
toAWE              ToAWE,
iE-Extensions     ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
...
}

DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfRqstTDD

DSCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
dSCH-ID          DSCH-ID,
iE-Extensions   ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
...
}

DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

USCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfRqstTDD

USCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
uSCH-ID          USCH-ID,
cCtRCH-ID        CCTrCH-ID          OPTIONAL,
transportFormatSet TransportFormatSet    OPTIONAL,
iE-Extensions   ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
...
}

USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

USCH-Information-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfRqstTDD

USCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
uSCH-ID          USCH-ID,
cCtRCH-ID        CCTrCH-ID,
transportFormatSet TransportFormatSet,
iE-Extensions   ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
...
}

USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```
}  
  
USCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfRqstTDD  
  
USCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {  
    uSCH-ID                USCH-ID,  
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,  
    ...  
}  
  
USCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {  
    rL-ID                RL-ID,  
    maxDL-Power          DL-Power OPTIONAL,  
    minDL-Power          DL-Power OPTIONAL,  
    iE-Extensions          ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,  
    ...  
}  
  
RL-InformationItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

**[CR writer's comment: Unmodified message modules are not included in the CR.]**

## 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCS,
    maxNrOfErrors,
    maxCTFC-1,
    maxNrOfTFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCodeGroups,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxCTFC-DCH-1,
    maxCTFC-DSCH-1,
    maxNrOfSF
FROM NBAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM NBAP-CommonDataTypes

    ProtocolExtensionContainer{},
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;

-- =====
-- A
-- =====

Acknowledged-RA-Tries-Value ::= INTEGER(0..240,...)
-- The number of L1 acknowledged random access tries per every 20 ms period.

AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete,

```

```
    ...
}

AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1,
    ...
}

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
}

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..2047)
-- Time = BCCH-ModificationTime * 2
-- Range 0 to 4094, step 2
-- All even SFN values are allowed

BindingID ::= OCTET STRING (SIZE (1..4, ...))

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

BlockSTTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
```

```
BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2),
    ...
}

-- =====
-- C
-- =====

Cause ::= CHOICE {
    radioNetwork          CauseRadioNetwork,
    transport             CauseTransport,
    protocol              CauseProtocol,
    misc                  CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scramblingcode-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAlocated,
    nodeB-Resources-unavailable,
    insufficient-physical-channel-resources,
    measurement-not-supported-for-the-object,
    macrodiversity-combining-not-possible,
    reconfiguration-not-allowed,

```

```
    requested-configuration-not-supported,
    synchronisation-failure,
    sIB-Origination-in-Node-B-not-Supported,
    unspecified,
    priority-transport-channel-established,
    ...
}

CauseTransport ::= ENUMERATED {
    transport-link-failure,
    transmission-port-not-available,
    transport-resource-unavailable,
    unspecified,
    ...
}

CCTrCH-ID ::= INTEGER (0..15)

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

CFNOffset ::= INTEGER (0..255)

ChipOffset ::= INTEGER (0..38399)
-- Unit Chip

C-ID ::= INTEGER (0..65535)

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
    SEQUENCE {
        dl-Cost      INTEGER (0..65535),
        ul-Cost      INTEGER (0..65536)
    }
}

CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iscp,
    ...
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power    Transmitted-Carrier-Power-Value,
    rssi                          RSSI-Value,
    acknowledged-ra-tries        Acknowledged-RA-Tries-Value,
    time-slot-iscp                TimeSlot-ISCP-Value,
    ...
}
```

```

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

CompressedModeMethod ::= ENUMERATED {
    none,
    puncturing,
    half-SF,
    higher-Layer-Scheduling,
    ...
}
-- none = restore the normal mode

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

CriticalityDiagnostics ::= SEQUENCE {
    procedureCode          ProcedureCode          OPTIONAL,
    triggeringMessage      TriggeringMessage      OPTIONAL,
    criticalityResponse    Criticality            OPTIONAL,
    transactionID         TransactionID          OPTIONAL,
    iEsCriticalityResponses CriticalityDiagnostics-IE-List,
    iE-Extensions         ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
SEQUENCE {
    criticalityResponse Criticality,
    iE-ID               ProtocolIE-ID,
    repetitionNumber   RepetitionNumber          OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CRNC-CommunicationContextID ::= INTEGER (0..1048575)

-- =====
-- D
-- =====

```



~~DCH-CombinationInd ::= INTEGER (0..255)~~

DCH-ID ::= INTEGER (0..255)

DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF  
SEQUENCE {  
    dl-Cost         INTEGER (0..65535),  
    ul-Cost         INTEGER (0..65536)  
}

DedicatedMeasurementObjectType ::= ENUMERATED {  
    rl,  
    rls,  
    all-rl,  
    all-rls,  
    ...  
}

DedicatedMeasurementType ::= ENUMERATED {  
    sir,  
    sir-error,  
    transmitted-code-power,  
    rscp,  
    ...  
}

DedicatedMeasurementValue ::= CHOICE {  
    sIR-Value                     SIR-Value,  
    sIR-ErrorValue               SIR-Error-Value,  
    transmittedCodePowerValue   Transmitted-Code-Power-Value,  
    rSCP                         RSCP-Value,  
    ...  
}

D-FieldLength ::= ENUMERATED {  
    v1,  
    v2,  
    ...  
}

DiversityControlField ::= ENUMERATED {  
    may,  
    must,  
    must-not,  
    ...  
}

DiversityMode ::= ENUMERATED {  
    none,  
    sTTD,  
    closed-loop-model,  
}

```
closed-loop-mode2,  
    ...  
}  
  
DL-DPCH-SlotFormat ::= INTEGER (0..16)  
  
DL-FrameType ::= ENUMERATED {  
    typeA,  
    typeB,  
    ...  
}  
  
DL-or-Global-CapacityCredit ::= INTEGER (0..65535)  
  
DL-Power ::= INTEGER (-350..150)  
-- DL-Power = power * 10  
-- If Power <=-35 DL-Power shall be set to -350  
-- if Power >=15 DL-Power shall be set to 150  
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB  
  
DL-ScramblingCode ::= INTEGER (0..15)  
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --  
  
DPCH-ID ::= INTEGER (0..239)  
  
DSCH-ID ::= INTEGER (0..255)  
  
-- to do  
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH  
DSCH-TFS ::= INTEGER  
  
-- =====  
-- E  
-- =====
```

**[CR writer's comment: End of modifications to ASN.1 part.]**

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.433 CR 134 R1</b>		Current Version: <b>3.1.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN #8</b>	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG use only)
list expected approval meeting # here ↑	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:** R-WG3 **Date:** April 2000

**Subject:** Clarification of the Node B Communication Context ID value "All NBCC"

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** CR134R1

- Updated text in tabular format in 9.1.51 to indicate that ALLNBCC shall not be used in combination with an on-demand measurement.
- Semantic and syntax is normally reflected in tabular format/ASN1: text in 8.3.8.4 is removed.

CR134

The current NBAP specification allows the use of a reserved value (All NBCC) of the Node B Communication Context ID IE. However, the intention with this was only to allow initiation of measurements for all current and future Node B Communication Contexts on one Node B Communication Control Port.

Currently there is no restriction to the use of this reserved value. Furthermore, if the reserved value is used in combination with requesting "On-demand" reporting for a measurement there is no way for the Node B to fulfill the request, especially not for future Node B Communication Contexts. In the case of a measurement that was initiated with the reserved value "All NBCC" fails in a Node B it is not clear what happens, since the DEDICATED MEASUREMENT FAILURE INDICATION message is directed towards one specific CRNC Communication Context ID.

This CR clarifies when the reserved value is allowed to be used and when it cannot be used. This also CR also clarifies how the Node B shall react if the reserved value is used in combination with the Report Characteristics "On-demand". Furthermore, the CR also clarifies that in case of a measurement that was initiated with the reserved value "All NBCC" fails in a Node B, the Node B shall terminate reporting for this measurement for all (current and future) Node B Communication Contexts.

**Clauses affected:** 8.3.8, 8.3.11.2, 9.1.36, 9.1.37.1, 9.1.38, 9.1.41, 9.1.44, 9.1.45, 9.1.46, 9.1.48, 9.1.50, 9.1.51, 9.1.55, 9.1.59, 9.1.61, 9.1.63, and 9.1.64.

**Other specs affected:**

Other 3G core specifications  
Other GSM core specifications  
MS test specifications  
BSS test specifications  
O&M specifications


→ List of CRs:  
→ List of CRs:  
→ List of CRs:  
→ List of CRs:  
→ List of CRs:

--

**Other comments:**

--

<----- [double-click here for help and instructions on how to create a CR.](#)

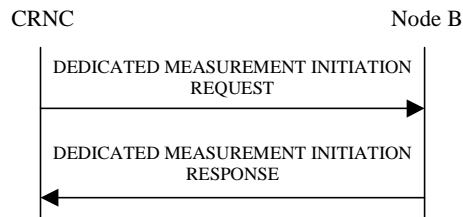
## 8.3.8 Dedicated Measurement Initiation

### 8.3.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on dedicated resources in a Node B.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.8.2 Successful Operation



**Figure 38: Dedicated Measurement Initiation procedure: Successful Operation**

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the communication control port assigned to the Node B communication context.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below the meaning of the parameters are given in other specifications.

If the *Node B Communication Context ID* ~~Node B Communication Context Id~~ IE equals the reserved value 'All NBCC', this measurement request shall apply for all current and future Node B Communication Contexts ~~that can be contacted via the current controlled via the communication control port~~ that can be contacted via the communication control port on which the DEDICATED MEASUREMENT INITIATION REQUEST message was received. Otherwise, this measurement request shall apply for the requested Node B Communication Context ~~ID Id~~ only.

If the *Dedicated Measurement Object* IE is set to "RL", the measurement reports shall give the measurement result for each of the indicated Radio Links.

[FDD - If the *Dedicated Measurement Object* IE is set to "RLS", the measurement reports shall give the measurement result for each of the indicated Radio Link Sets.]

If the *Dedicated Measurement Object* IE is set to "ALL RL", the measurement reports shall give the measurement result for each of the current and future Radio Links within the Node B Communication Context.

[FDD - If the *Dedicated Measurement Object* IE is set to "ALL RLS", the measurement reports shall give the measurement result for each of the existing and future Radio Link Sets within the Node B Communication Context.]

[TDD - If DPCH Id is provided within the RL Information the measurement request shall apply for the requested physical channel individually.]

The *Report Characteristics* IE is set to how the reporting of the measurement shall be performed.

If the *Report Characteristics* IE is set to 'On-Demand', the Node B shall return the result of the measurement immediately.

If the *Report Characteristics* IE is set to 'Periodic', the Node B shall periodically initiate a Measurement Report procedure for this measurement, with the requested report frequency.

If the *Report Characteristics* IE is set to 'Event A', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event B', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event C', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'Event F', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows

$F_n$  is the updated filtered measurement result

$F_{n-1}$  is the old filtered measurement result

$M_n$  is the latest received measurement result from physical layer measurements

$a$  = one divided by the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present,  $a$  shall be set to 1 (no filtering)

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

If the Node B was able to initiate the measurement requested by the CRNC it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message using the communication control port assigned to the Node B communication context. The message shall include the same Measurement Id that was used in the measurement request.

Only in the case when *Report Characteristics* IE is set to "On-Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall contain the measurement result. In this case also the *Dedicated Measurement Object* IE shall be included if it was included in the request message.

## 8.3.11 Dedicated Measurement Failure

### 8.3.11.1 General

This procedure is used by the Node B to notify the CRNC that a measurement previously requested by the Measurement Initiation procedure can no longer be reported. The Node B is allowed to initiate the DEDICATED MEASUREMENT FAILURE INDICATION message at any time after having sent the RADIO LINK SETUP RESPONSE message, as long as the Node B communication context exists.

### 8.3.11.2 Successful Operation



**Figure 42: Dedicated Measurement Failure procedure: Successful Operation**

This procedure is initiated with a DEDICATED MEASUREMENT FAILURE INDICATION message, sent from the Node B to the CRNC using the communication control port assigned to the Node B communication context, to inform the CRNC that a previously requested measurement no longer can be reported. If the failed measurement was initiated with the Node B Communication Context ID IE set to the reserved value "All NBCC" the Node B shall terminate the measurement reporting of the measurement corresponding to the Measurement Id provided in the DEDICATED MEASUREMENT FAILURE INDICATION message.

### 8.3.11.3 Abnormal Conditions

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## 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			The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	M				YES	ignore
<b>RL Information Response</b>		1 to <maxnoofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>UL interference level	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>Non Combining or IE not present					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
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.



Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCH per UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.

## 9.1.36.2 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			The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	M				YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link		
>Time Slot	M					
>UL interference level	M					
<b>&gt;DCH Information Response</b>		1 to <maxnoofDCH>		Only one DCH per set of coordinated DCH shall be included.	GLOBAL	ignore
>>DCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
<b>&gt;DSCH Information Response</b>		0 .. <MaxnoofDSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
<b>&gt;USCH Information Response</b>		0 .. <MaxnoofUSCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
Criticality diagnostics	O				YES	ignore

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCH per UE
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.37 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			The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	O				YES	ignore
<b>Unsuccessful RL Information Response</b>		1 to <maxnoo fRLs>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		0 to <maxnoo fRLs-1>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>UL interference level	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>					–	
>>Combining					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>Non Combining or IE not present					YES	ignore
>>>DCH Information Response		0 to <maxnoo fDCHs>		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 number of RLs for one UE.
MaxnoofDCHs	Maximum number 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				–	
<b>Unsuccessful RL Information Response</b>		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			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>RL Information</b>		1..<maxnoofRL-1>			EACH	notify
>RL ID	M				–	
>C-Id	M				–	
>Frame Offset	M				–	
>Chip Offset	M				–	
>Diversity Control Field	M				–	
<b>&gt;DL Code Information</b>		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				–	
>Transmit Diversity Indicator	C – Diversity mode					

Condition	Explanation
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

Range bound	Explanation
<i>MaxnoofRL</i>	Maximum number of RLs for one UE
<i>MaxnoofDL Codes</i>	Maximum number of DL code information

## 9.1.38.2 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			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>UL CCH Information</b>		0 to <max number of CCH>			GLOBAL	reject
>CCH ID	M				–	
<b>UL DPCH Information</b>		0 to <max number of DPCH>			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				–	
<b>DL CCH Information</b>		0 to <max number of CCH>			GLOBAL	reject
>CCH ID	M				–	
<b>DL DPCH information</b>		0 to <max number of DPCH>			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				–	
<b>RL Information</b>		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 CCTrCH
MaxnoCCTrCH	number of CCTrCH for one UE.

## 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			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O				–	
>UL SIR Target	O		UL SIR			
>Min UL Channelisation Code Length	O				–	
>Max Number of UL DPDCHs	C – CodeLen				–	
>Puncture Limit	O			For UL	–	
>TFCS	O				–	
>UL DPCCCH Slot Format	O				–	
>SSDT Cell Identity Length	O				–	
>S-Field Length	O				–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O				–	
>DL DPCH Slot Format	O				–	
>TFCI Signalling Mode	O				–	
>TFCI presence	C-Slot Format				–	
>Multiplexing Position	O				–	
>PDSCH code mapping	O					
>PDSCH RL ID	O		RL ID			
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M				–	
>Transport Format Set	O			For the UL.	–	
>Transport Format Set	O			For the DL.	–	
>Frame Handling Priority	O				–	
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Ind	O				–	
>Limited Power Increase	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	



>QE-Selector	M					
>ToAWS	M				-	
>ToAWE	M				-	
<b>DCHs to Delete</b>		0..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M				-	
<b>DSCH to modify</b>		0..<max noofDS CHs>			YES	reject
>DSCH ID	M				-	
>Transport Format Set	O			For the DL.	-	
>Frame Handling Priority	O				-	
>ToAWS	O				-	
>ToAWE	O				-	
<b>DSCH to add</b>		0..<max noofDS CHs>			YES	reject
>DSCH ID	M				-	
>Transport Format Set	M			For the DL.	-	
>Frame Handling Priority	M				-	
>ToAWS	M				-	
>ToAWE	M				-	
<b>DSCH to Delete</b>		0..<max noofDS CHs>			YES	reject
>DSCH ID	M				-	
<b>RL Information</b>		0..<max noofRLs >			EACH	reject
>RL ID	M				-	
<b>&gt;DL Code Information</b>		0..<max noofDL Codes<			-	
>>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
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for a UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	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				YES	reject
Node B Communication Context ID	M			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>UL CCTrCH Information</b>		0.. <maxno of CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;UL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	O				–	
>>Burst Type	O				–	
>>Midamble Shift	O				–	
>>Time Slot	O				–	
>>TDD Physical channel Offset	O				–	
>>Repetition Period	O				–	
>>Repetition Length	O				–	
>>TFCI Presence	O				–	
<b>DL CCTrCH Information</b>		0.. <maxno of CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>PunctureLimit					–	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	O				–	
>>Burst Type	O				–	
>>Midamble Shift	O				–	
>>Time Slot	O				–	
>>TDD Physical Channel Offset	O				–	

>>Repetition Period	O				–	
>>Repetition Length	O				–	
>>TFCI Presence	O				–	
<b>DCHs to Modify</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>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				–	
<b>DCHs to Add</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>Limited Power Increase	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				–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
<b>DSCH Information to modify</b>		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject
>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				–	

<b>DSCH Information to add</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>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				–	
<b>DSCH Information to delete</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M				–	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
>Transport Format Set	O				–	
>CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	–	
<b>USCH Information to add</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M				–	
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M				–	
<b>RL Information</b>		0..1			YES	reject
>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

## 9.1.44 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			The reserved value "All NBCC" shall not be used.	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			The reserved value "All NBCC" shall not be used.	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			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O			For the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O			For the DL.	–	
>TFCI Signalling Mode	O				–	
>PDSCH code mapping	O					
>PDSCH RL ID	O		RL ID			
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M				–	
>Transport Format Set	O			For the UL.	–	
>Transport Format Set	O			For the DL.	–	
>Frame Handling Priority	O				–	
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Ind	O				–	
>Limited Power Increase	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP mode	M				–	
>QE-Selector	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DCHs to Delete</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M				–	
<b>DSCH to Modify</b>		0..<maxn oofDSCHs >			YES	reject
>DSCH ID	M				–	
>Transport Format Set	O			For the DL.	–	
>Frame Handling Priority	O				–	
>ToAWS	O				–	

>ToAWE	O				–	
<b>DSCH to Add</b>		<i>0..&lt;maxnoofDSCHs&gt;</i>			YES	reject
>DSCH ID	M				–	
>Transport Format Set	M			For the DL.	–	
>Frame Handling Priority	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DSCH to Delete</b>		<i>0..1</i>			YES	reject
>DSCH ID	M				–	
<b>Radio Link Information</b>		<i>0..&lt;maxnoofRLs&gt;</i>			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>MaxnoofDSCHs</i>	Maximum number of DSCHs 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				YES	reject
Node B Communication Context ID	M			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>UL CTrCH Information</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M				–	
>TFCS	O				–	
>Puncture Limit	O				–	
<b>DL CTrCH Information</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M				–	
>TFCS	O				–	
>Puncture Limit	O				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>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				–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M				–	
>Limited Power Increase	M				–	
>CTrCH ID	M			UL CTrCH in which the DCH is mapped.	–	
>CTrCH ID	M			DL CTrCH 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	M				–	

Indicator						
>UL FP Mode	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DCHs to Delete</b>		0..<maxnoofDSCHs>			GLOBAL	reject
>DCH ID	M				–	
<b>DSCH Information to modify</b>		0 .. <Maxnoof DSCHs>			GLOBAL	reject
>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				–	
<b>DSCH Information to add</b>		0 .. <Maxnoof DSCHs>			GLOBAL	reject
>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				–	
<b>DSCH Information to delete</b>		0 .. <Maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M				–	
<b>USCH Information to modify</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	O			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	O				–	
<b>USCH Information to add</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M				–	
<b>USCH Information to delete</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject

>USCH ID	M				–	
<b>RL Information</b>		<i>0..1</i>			YES	reject
>RL ID	M				–	
>Maximum Downlink Power	O		DL Power		–	
>Minimum Downlink Power	O		DL Power		–	

<b>Range bound</b>	<b>Explanation</b>
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

## 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			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>RL Information</b>		1..<maxnoofRLs>			EACH	notify
RL ID	M				–	

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of radio links for one UE

## 9.1.50 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	ignore
Node B Communication Context ID	M			The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M				–	
Power Adjustment Type	M				YES	ignore
DL Reference Power	C-Common		DL power		–	
<b>DL Reference Power Information</b>	C-Individual	1..<maxnoof RLs>			GLOBAL	ignore
>RL ID	M				–	
>DL Reference Power	M		DL power		–	
Max Adjustment Step	C-CommonOrIndividual					
Max. Adjustment Period	C-CommonOrIndividual					

Condition	Explanation
Common	This IE is present only "Adjustment Type " equals to 'Common'
Individual	This IE is present only "Adjustment Type " equals to 'Individual'
CommonOrIndividual	This IE is present only "Adjustment Type " equals to 'Common' or 'Individual'

Range Bound	Explanation
MaxnoofRLs	Maximum number of Radio Links for a UE

### 9.1.51 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
Node B Communication Context Id	M			The reserved value "All NBCC" shall not be used when the Report characteristics type is set to "On-Demand".	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..<maxnoofRLs>			EACH	reject
>>>RL-id	M				–	
>>>DPCH ID	O				–	
>"RLS"						
>>RL Set Information		1..<maxnoofRLSets>				
>>>RL Set ID	M					
Dedicated Measurement Type	M				YES	reject
Measurement Filter Coefficient	O				YES	reject
Report Characteristics	M				YES	reject

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's a measurement can be started on.
<i>MaxnoofRLSets</i>	Maximum number of individual RL Sets a measurement can be started on.

## 9.1.55 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	ignore
Node B Communication Context Id	M			<u>The reserved value "All NBCC" shall only be used if this value was used when initiating the measurement.</u>	YES	ignore
Transaction Id	M				–	
Measurement Id	M				YES	ignore

## 9.1.59 COMPRESSED MODE PREPARE [FDD]

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			The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M				–	
<b>CM Pattern Information</b>		1 to 8		Range defined ref. [4]		
>CFN Offset	M					
>TGP1	M		Gap Period	Refer to [4]	YES	reject
>TGP2	O		Gap Period	Refer to [4]	YES	reject
>TGL	M				YES	reject
>TGD	M				YES	reject
>PD	M				YES	reject
>UL/DL compressed mode selection	M				YES	reject
>Compressed mode method	M				YES	reject
>Gap Position Mode	M				YES	reject
>SN	C-Flex		TimeSlot		YES	reject
>Downlink Frame Type	M				YES	reject
>Scrambling Code Change	C-SF/2				YES	reject
>Power Control Mode	M				YES	reject
>Power Resume Mode	M				YES	reject
>UL delta SIR	M				YES	reject
>UL delta SIR after	M				YES	reject

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



## 9.1.61 COMPRESSED MODE COMMIT [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	ignore
Node B communication context ID	M			The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M				–	
CFN	M				YES	ignore

## 9.1.63 COMPRESSED MODE CANCEL [FDD]

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			The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M				–	

## 9.1.64 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				–	
Message Discriminator	M				YES	ignore
CRNC Communication Context Id	C-ifUL				–	
Node B Communication Context Id	C-ifDL			The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction Id	M				YES	ignore
Cause	C-ifalone				YES	ignore
Criticality diagnostics	C-ifalone				YES	ignore

Condition	Explanation
IfDL	This IE is only present when message is transmitted by the CRNC on a signalling bearer corresponding to a communication control port.
IfUL	This IE is only present when message is transmitted by the Node B on a signalling bearer corresponding to a communication control port.
Ifalone	At least either of Cause IE or Criticality Diagnostics IE shall be present.

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
<b>25.433</b>	<b>CR</b>	<b>136r1</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>TSG RAN#8</b>		Current Version: <b>3.1.0</b>
<i>list expected approval meeting # here</i>	for approval for information	strategic non-strategic
↑	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**    (U)SIM     ME     UTRAN / Radio     Core Network   
(at least one should be marked with an X)

**Source:**    R-WG3    **Date:**    2000-05-22

**Subject:**    PRACH Scrambling code in Common Transport Channel Setup

**Work item:**    \_\_\_\_\_

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

**Reason for change:**    The Scrambling code word for PRACH has been aligned with 25.213 v3.2.0 and 25.331 v3.2.0. Agenda item 18.5.g.

**Clauses affected:**    9.1.2, 9.2.2.30, 9.3.3 and 9.3.4

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	
------------------------------	---	--	--

**Other comments:**    Some editorial correction is added.



<----- double-click here for help and instructions on how to create a CR.

## 9.1.2 COMMON TRANSPORT CHANNEL SETUP REQUEST

## 9.1.2.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
<b>CHOICE common physical channel to be configured</b>					YES	ignore
>Secondary CCPCH					YES	reject
<b>&gt;Secondary CCPCH</b>		1				
>>Common Physical Channel ID	M				–	
>>FDD S-CCPCH Offset	M			Corresponds to 25.211: s-CCPCH.k	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>>TFCI Presence	C - SlotFormat				–	
>>Multiplexing Position	M				–	
>>STTD Indicator	M				–	
<b>&gt;&gt;FACH Parameters</b>	C-choiceCh	0..maxnoofFACHs			GLOBAL	reject
>>>Common transport channel ID	M				–	
>>>Transport Format Set	M			For the DL.	–	
>>>ToAWS	M				–	
>>>ToAWE	M				–	
>>>Max FACH Power	M		DL Power	Maximum allowed power on the FACH.	–	
<b>&gt;&gt;PCH Parameters</b>	C-choiceCh	0..1			YES	reject
>>>Common Transport Channel ID	M				–	
>>>Transport Format Set	M			For the DL.	–	
>>>ToAWS	M				–	
>>>ToAWE	M				–	
>>>PCH Power	M		DL Power		–	
<b>&gt;&gt;&gt;PICH Parameters</b>		1			–	
>>>>Common Physical Channel ID	M				–	
>>>>DL Scrambling	M				–	

Code						
>>>>FDD DL Channelisation Code Number	M				-	
>>>>PICH Power	M		DL Power	Power to be used on the PICH.	-	
>>>>PICH Mode	M			Number of PI per frame	-	
>>>>STTD Indicator	M				-	
>PRACH					YES	reject
>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			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
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
ChoiceCh	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
MaxnoofFACHs	Maximum number of FACHs that can be defined on a Secondary CCPCH.
MaxSF	Maximum number of SF for a PRACH

9.2.2.30 Scrambling Code ~~Word~~ Number

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code <del>Word</del> Number			INTEGER (0..25515)	<a href="#">Identification of scrambling code see Ref. [9].</a>

### 9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCH-CH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
    DedicatedMeasurementType,
```



DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-ScramblingCode,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,  
PowerResumeMode,  
PRACH-Midamble,

PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,

```
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
UARFCN,  
UL-CapacityCredit,  
UL-DL-CompressedModeSelection,  
UL-DeltaSIR,  
UL-DeltaSIR-after,  
UL-DPCCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-InterferenceLevel,  
UL-ScramblingCode,  
USCH-ID  
FROM NBAP-IEs  
  
PrivateIE-Container{ },  
ProtocolExtensionContainer{ },  
ProtocolIE-Container{ },  
ProtocolIE-ContainerList{ },  
NBAP-PRIVATE-IES,  
NBAP-PROTOCOL-IES,  
NBAP-PROTOCOL-EXTENSION  
FROM NBAP-Containers  
  
id-AICH-InformationItem-AuditRsp,  
id-AICH-InformationItem-ResourceStatusInd,  
id-AICH-ParametersList-CTCH-ReconfRqstFDD,  
id-AllRLItem-DM-Rprt,  
id-AllRLItem-DM-Rsp,  
id-AllRLItem-Set-DM-Rprt,  
id-AllRLItem-Set-DM-Rsp,  
id-BCH-InformationItem-AuditRsp,  
id-BCH-InformationItem-ResourceStatusInd,  
id-BCCH-ModificationTime,  
id-BlockingPriorityIndicator,  
id-Case1Item-Cell-SetupRqstTDD,  
id-Case2Item-Cell-SetupRqstTDD,  
id-Cause,  
id-CCP-InformationItem-AuditRsp,  
id-CCP-InformationList-AuditRsp,  
id-CCP-InformationItem-ResourceStatusInd,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellItem-CM-Rprt,  
id-CellItem-CM-Rqst,  
id-CellItem-CM-Rsp,  
id-CellParameterID,  
id-CFN,  
id-C-ID,
```

id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,

id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,

id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstFDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstFDD,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,

id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-RACH-InformationItem-AuditRsp,  
id-RACH-InformationItem-ResourceStatusInd,  
id-RACHItem-CTCH-SetupRsp,  
id-RACHItem-CM-Rprt,  
id-RACHItem-CM-Rqst,  
id-RACHItem-CM-Rsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,

id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,



id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,  
id-USCH-ModifyListIE-RL-ReconfReady,  
id-USCH-ModifyListIE-RL-ReconfRsp,  
id-USCH-SetupListIE-RL-ReconfReady,  
id-USCH-SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,  
maxNrOfCodes,  
maxNrOfCMPatterns,  
maxNrOfDCHs,  
maxNrOfDLCodes,  
maxNrOfDPCHs,  
maxNrOfDSCHs,  
maxNrOfFACHs,  
maxNrOfRLs,  
maxNrOfRLSets,  
maxNrOfPRACHs,  
maxNrOfPDSCHs,  
maxNrOfPUSCHs,  
maxNrOfPDSCHSets,  
maxNrOfPUSCHSets,  
maxNrOfSCCPCHs,

```

maxNrOfULTSs,
maxNrOfUSCHs,
maxFACHCell,
maxRACHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxLocalCellinNodeB,
maxSF,
maxIB,
maxIBSEG
FROM NBAP-Constants;

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD,
--
-- *****

CommonTransportChannelSetupRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{CommonTransportChannelSetupRequestFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer  {{CommonTransportChannelSetupRequestFDD-Extensions}}  OPTIONAL,
    ...
}

CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID          CRITICALITY    reject      TYPE C-ID          PRESENCE mandatory
    }|
    { ID      id-ConfigurationGenerationID  CRITICALITY    reject      TYPE ConfigurationGenerationID          PRESENCE
    mandatory }|
    { ID      id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  CRITICALITY    ignore     TYPE CommonPhysicalChannelType-CTCH-SetupRqstFDD
    PRESENCE  mandatory },
    ...
}

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters  Secondary-CCPCH-CTCH-SetupRqstFDD,
    PRACH-parameters           PRACH-CTCH-SetupRqstFDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHIE-CTCH-SetupRqstFDD }}

Secondary-CCPCHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHItem-CTCH-SetupRqstFDD  CRITICALITY reject  TYPE Secondary-CCPCHItem-CTCH-SetupRqstFDD  PRESENCE mandatory },

```

```

}
...
}
Secondary-CCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset                FDD-S-CCPCH-Offset,
    dl-ScramblingCode                 DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber   FDD-DL-ChannelisationCodeNumber,
    tFCS                               TFCS,
    secondary-CCPCH-SlotFormat        SecondaryCCPCH-SlotFormat,
    tFCI-Presence                      TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any value 8 to 17
    multiplexingPosition              MultiplexingPosition,
    sTTD-Indicator                    STTD-Indicator,
    fACH-Parameters                   FACH-ParametersList-CTCH-SetupRqstFDD OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    pCH-Parameters                    PCH-Parameters-CTCH-SetupRqstFDD OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    iE-Extensions                     ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstFDD }}

FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory },
    ...
}

FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD

FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    transportFormatSet                TransportFormatSet,
    toAWS                              ToAWS,
    toAWE                              ToAWE,
    maxFACH-Power                     DL-Power,
    iE-Extensions                     ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}

```

```

PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersItem-CTCH-SetupRqstFDD  CRITICALITY reject  TYPE PCH-ParametersItem-CTCH-SetupRqstFDD  PRESENCE mandatory },
  ...
}

PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  transportFormatSet            TransportFormatSet,
  toAWS                          ToAWS,
  toAWE                          ToAWE,
  pCH-Power                      DL-Power, -- R3-000655, CR24r1
  pICH-Parameters                PICH-Parameters-CTCH-SetupRqstFDD,

  iE-Extensions                 ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }  OPTIONAL,
  ...
}

PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  dl-ScramblingCode            DL-ScramblingCode,
  fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
  pICH-Power                    DL-Power,
  pICH-Mode                      PICH-Mode,
  sTTD-Indicator                STTD-Indicator,
  iE-Extensions                 ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }  OPTIONAL,
  ...
}

PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PRACHIE-CTCH-SetupRqstFDD }}

PRACHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACHItem-CTCH-SetupRqstFDD  CRITICALITY reject  TYPE PRACHItem-CTCH-SetupRqstFDD  PRESENCE mandatory },
  ...
}

PRACHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,
  scramblingCodeWordNumber     ScramblingCodeWordNumber,
  tFCS                          TFCS,
  preambleSignatures            PreambleSignatures,
  allowedSlotFormatInformation  AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
  rACH-SubChannelNumbers        RACH-SubChannelNumbers,
  ul-punctureLimit              PunctureLimit,

```

```

    preambleThreshold          PreambleThreshold,
    rACH-Parameters            RACH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions              ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSF)) OF AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    rACHSlotFormat              RACH-SlotFormat,
    iE-Extensions              ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs } }
    OPTIONAL,
    ...
}

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Container { { RACH-ParametersIE-CTCH-SetupRqstFDD } }

RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE RACH-ParametersItem-CTCH-SetupRqstFDD    PRESENCE mandatory },
    ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    transportFormatSet          TransportFormatSet,
    aICH-Parameters             AICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions              ProtocolExtensionContainer { { RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID     CommonPhysicalChannelID,
    dl-ScramblingCode           DL-ScramblingCode,
    aICH-TransmissionTiming     AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    aICH-Power                  DL-Power,
    sTTD-Indicator              STTD-Indicator,
    iE-Extensions              ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

```

```
}  
AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

## 9.3.4 NBAP Information Elements

```

-- =====
-- S
-- =====

ScaledMaxAdjustmentPeriod      ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep        ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

ScramblingCodeChange ::= ENUMERATED {
    code-change,
    no-code-change,
    ...
}

| ScramblingCodeWordNumber ::= INTEGER (0..25515)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)

S-FieldLength ::= ENUMERATED {
    v1,
    v2,
    ...
}

-- to do, This parameter is present in NBAP tabular but not defined in IE(TS25.433v3.0.0)
SFN ::= INTEGER

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

SIB-DeletionIndicator ::= ENUMERATED {
    noDeletion,
    deletion,
    ...
}

SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
    ...
}

SIR-Error-Value ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

```

```
SIR-Value ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SSDT-Cell-Identity ::= ENUMERATED {a, b, c, d, e, f, g, h}

SSDT-CellID-Length ::= ENUMERATED {
    short,
    medium,
    long,
    ...
}

SSDT-Indication ::= ENUMERATED {
    ssdt-active-in-the-UE,
    ssdt-not-active-in-the-UE,
    ...
}

STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-Supported,
    sSDT-not-supported,
    ...
}

SyncCase ::= INTEGER (1..2)
```



## 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 137r1** Current Version: **3.1.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#8**

list expected approval meeting # here ↑

for approval   
for information

strategic   
non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** 2000-05-22

**Subject:** Ambiguous Common Transport Channel Setup Response message

**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:** CR137r1:  
The conditions in the tabular format are removed. The semantics description is added to clarify the message structure. The changes are highlighted in yellow.  
CR137:  
The choice in Common Transport Channel Setup Response message is not consistent with the choice in the Common Transport Channel Setup Request message.  
The ASN.1 doesn't implement the RACH choice correctly.

**Clauses affected:** 9.1.3, 9.3.3 and 9.3.7

**Other specs affected:** Other 3G core specifications  → List of CRs:  
Other GSM core specifications  → List of CRs:  
MS test specifications  → List of CRs:  
BSS test specifications  → List of CRs:  
O&M specifications  → List of CRs:

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

### 9.1.3 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				-	
Message Type	M				YES	reject
Transaction ID	M				-	
<i>CHOICE common transport channel configured</i>					YES	ignore
<i>&gt;FACH</i>					YES	ignore
<b>&gt;FACH Parameters</b>	<b>C</b> choiceCh	0..<maximum number of FACHs>		The FACH Parameters may be combined with PCH Parameters	-GLOBAL	ignore
<b>&gt;&gt;Common Transport Channel ID</b>	M				-	
<b>&gt;&gt;Binding ID</b>	M				-	
<b>&gt;&gt;Transport layer address</b>	M				-	
<i>&gt;PCH</i>					YES	ignore
<b>&gt;PCH Parameters</b>	<b>C</b> choiceCh	0..1		The PCH Parameters may be combined with FACH Parameters	GLOBAL-	ignore
<b>&gt;&gt;Common transport channel ID</b>	M				-	
<b>&gt;&gt;Binding ID</b>	M				-	
<b>&gt;&gt;Transport layer address</b>	M				-	
<i>&gt;RACH</i>					YES	ignore
<b>&gt;RACH parameters</b>		0..1		The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	GLOBAL	ignore
<b>&gt;&gt;Common transport channel ID</b>	M				-	
<b>&gt;&gt;Binding ID</b>	M				-	
<b>&gt;&gt;Transport layer address</b>	M				-	
Criticality Diagnostics	O				YES	ignore

Condition	Explanation
ChoiceCh	One of the channels FACH or PCH or both must be present.

<b>Range bound</b>	<b>Explanation</b>
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD].

### 9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CTrCH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
```

```
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-ScramblingCode,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,  
PowerResumeMode,
```

PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,

```
TransmitDiversityIndicator,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
USCH-ID
FROM NBAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-Container{},
ProtocolIE-ContainerList{},
NBAP-PRIVATE-IES,
NBAP-PROTOCOL-IES,
NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers

id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersList-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRLItem-Set-DM-Rprt,
id-AllRLItem-Set-DM-Rsp,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
```

id-C-ID,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
~~id-CommonTransportChannelType-CTCH-SetupRsp,~~  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,



id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,

id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-InformationItem-AuditRsp,  
id-P-CCPCH-InformationItem-ResourceStatusInd,  
id-P-CPICH-InformationItem-AuditRsp,  
id-P-CPICH-InformationItem-ResourceStatusInd,  
id-P-SCH-InformationItem-AuditRsp,  
id-P-SCH-InformationItem-ResourceStatusInd,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-InformationItem-ResourceStatusInd,  
id-PCHItem-CTCH-SetupRsp,  
id-PCH-Parameters-CTCH-ReconfRqstFDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-InformationItem-AuditRsp,  
id-PICH-InformationItem-ResourceStatusInd,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-InformationItem-AuditRsp,  
id-PICH-Parameters-CTCH-ReconfRqstFDD,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-InformationItem-AuditRsp,  
id-PRACH-InformationItem-ResourceStatusInd,  
id-PRACHItem-CTCH-SetupRqstFDD,  
id-PRACHItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersList-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,

id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-RACH-InformationItem-AuditRsp,  
id-RACH-InformationItem-ResourceStatusInd,  
id-RACHItem-CTCH-SetupRsp,  
id-RACHItem-CM-Rprt,  
id-RACHItem-CM-Rqst,  
id-RACHItem-CM-Rsp,  
id-RACH-Parameters-CTCH-SetupRsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,

id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,

id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-Information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,  
id-USCH-ModifyListIE-RL-ReconfReady,  
id-USCH-ModifyListIE-RL-ReconfRsp,  
id-USCH-SetupListIE-RL-ReconfReady,  
id-USCH-SetupListIE-RL-ReconfRsp,

maxNrOfCCTrCHs,  
maxNrOfCodes,  
maxNrOfCmpatterns,  
maxNrOfDCHs,  
maxNrOfDLCodes,  
maxNrOfDPCHs,  
maxNrOfDSCHs,  
maxNrOfFACHs,  
maxNrOfRFLs,  
maxNrOfRFLSets,  
maxNrOfPRACHs,  
maxNrOfPDSCHs,

```
maxNrOfPUSCHs,  
maxNrOfPDSCHSets,  
maxNrOfPUSCHSets,  
maxNrOfSCCPCHs,  
maxNrOfULTSs,  
maxNrOfUSCHs,  
maxFACHCell,  
maxRACHCell,  
maxPRACHCell,  
maxSCCPCHCell,  
maxSCPICHCell,  
maxCellinNodeB,  
maxCCPinNodeB,  
maxLocalCellinNodeB,  
maxSF,  
maxIB,  
maxIBSEG  
FROM NBAP-Constants;
```

A part has been removed.

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
--
-- *****

CommonTransportChannelSetupResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelSetupResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonTransportChannelSetupResponse-Extensions}}    OPTIONAL,
    ...
}

CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {

    { ID id-FACH-ParametersList-CTCH-SetupRsp    CRITICALITY reject    TYPE    FACH-ParametersList-CTCH-SetupRsp    PRESENCE optional }|
    { ID id-PCH-Parameters-CTCH-SetupRsp        CRITICALITY reject    TYPE    PCH-Parameters-CTCH-SetupRsp        PRESENCE optional }|
    { ID id-RACH-Parameters-CTCH-SetupRsp       CRITICALITY reject    TYPE    RACH-Parameters-CTCH-SetupRsp       PRESENCE optional }|
    { ID id-CommonTransportChannelType-CTCH-SetupRsp    CRITICALITY ignore    TYPE    CommonTransportChannelType-CTCH-SetupRsp    PRESENCE
    mandatory }|
    { ID id-CriticalityDiagnostics              CRITICALITY ignore    TYPE    CriticalityDiagnostics              PRESENCE
    optional },
    ...
}

CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


CommonTransportChannelType-CTCH-SetupRsp ::= SEQUENCE {
    fACH          FACH-CTCH-SetupRsp          OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    pCH          PCH-CTCH-SetupRsp          OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    rACH          RACH-CTCH-SetupRsp,
    iE-Extensions ProtocolExtensionContainer {{ CommonTransportChannelType-CTCH-SetupRsp-ExtIEs }}    OPTIONAL,
    ...
}

CommonTransportChannelType-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-CTCH-SetupRsp ::= ProtocolIE-Container {{ FACHIE-CTCH-SetupRsp }}

FACHIE-CTCH-SetupRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FACHItem-CTCH-SetupRsp    CRITICALITY ignore    TYPE    FACHItem-CTCH-SetupRsp    PRESENCE mandatory },
    ...
}

FACHItem-CTCH-SetupRsp ::= SEQUENCE {
    fACH-ParametersList-CTCH-SetupRsp    FACH-ParametersList-CTCH-SetupRsp    OPTIONAL,
    iE-Extensions ProtocolExtensionContainer {{ FACHItem-CTCH-SetupRsp-ExtIEs }}    OPTIONAL,


```

```


    ...
}

FACHItem-CTCH-SetupRsp-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-ParametersList-CTCH-SetupRsp ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRsp

FACH-ParametersItem-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bindingID                      BindingID,
    transportLayerAddress          TransportLayerAddress,
    iE-Extensions                  ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

FACH-ParametersItem-CTCH-SetupRsp-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-CTCH-SetupRsp ::= ProtocolIE-Container {{ PCHIE-CTCH-SetupRsp }}

PCHIE-CTCH-SetupRsp-NBAP-PROTOCOL-IES ::= {

    { ID id PCHItem-CTCH-SetupRsp CRITICALITY ignore TYPE PCHItem-CTCH-SetupRsp PRESENCE mandatory },
    ...
}

PCHItem-CTCH-SetupRsp ::= SEQUENCE {

    pCH-Parameters-CTCH-SetupRsp PCH-Parameters-CTCH-SetupRsp OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { PCHItem-CTCH-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

PCHItem-CTCH-SetupRsp-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bindingID                      BindingID,
    transportLayerAddress          TransportLayerAddress,
    iE-Extensions                  ProtocolExtensionContainer { { PCH-Parameters-CTCH-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

PCH-Parameters-CTCH-SetupRsp-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-CTCH-SetupRsp ::= ProtocolIE-Container {{ RACHIE-CTCH-SetupRsp }}


```



```

RACH-Item-CTCH-SetupRsp-NBAP-PROTOCOL-IES ::= {
  { ID id RACH-Item-CTCH-SetupRsp CRITICALITY ignore TYPE RACH-Item-CTCH-SetupRsp PRESENCE mandatory },
  ...
}

RACH-Item-CTCH-SetupRsp ::= SEQUENCE {
  rACH-Parameters-CTCH-SetupRsp RACH-Parameters-CTCH-SetupRsp,
  iE-Extensions ProtocolExtensionContainer { { RACH-Item-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
  ...
}

RACH-Item-CTCH-SetupRsp-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { { RACH-Parameters-CTCH-SetupRsp-ExtIEs } } OPTIONAL,
  ...
}

RACH-Parameters-CTCH-SetupRsp-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

## 9.3.7 Constant Definitions for NBAP

```

-- *****
--
-- Constant definitions
--
-- *****

NBAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-audit                INTEGER ::= 0
id-auditRequired        INTEGER ::= 1
id-blockResource        INTEGER ::= 2
id-cellDeletion         INTEGER ::= 3
id-cellReconfiguration  INTEGER ::= 4
id-cellSetup            INTEGER ::= 5
id-commonMeasurementFailure  INTEGER ::= 6
id-commonMeasurementInitiation  INTEGER ::= 7
id-commonMeasurementReport   INTEGER ::= 8
id-commonMeasurementTermination  INTEGER ::= 9
id-commonTransportChannelDelete  INTEGER ::= 10
id-commonTransportChannelReconfigure  INTEGER ::= 11
id-commonTransportChannelSetup  INTEGER ::= 12
id-compressedModeCancellation  INTEGER ::= 13
id-compressedModeCommit        INTEGER ::= 14
id-compressedModePreparation    INTEGER ::= 15
id-dedicatedMeasurementFailure  INTEGER ::= 16
id-dedicatedMeasurementInitiation  INTEGER ::= 17
id-dedicatedMeasurementReport   INTEGER ::= 18
id-dedicatedMeasurementTermination  INTEGER ::= 19
id-downlinkPowerControl        INTEGER ::= 20
id-errorIndication             INTEGER ::= 21
id-physicalSharedChannelReconfiguration  INTEGER ::= 37
id-privateMessage              INTEGER ::= 22
id-radioLinkAddition           INTEGER ::= 23
id-radioLinkDeletion           INTEGER ::= 24
id-radioLinkFailure            INTEGER ::= 25
id-radioLinkRestoration        INTEGER ::= 26
id-radioLinkSetup              INTEGER ::= 27
id-resourceStatusIndication     INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation  INTEGER ::= 29

```

```

id-synchronisedRadioLinkReconfigurationCommit      INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation  INTEGER ::= 31
id-systemInformationUpdate                         INTEGER ::= 32
id-unblockResource                                INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration          INTEGER ::= 34

```

```

-- *****
--
-- Extension constants
--
-- *****

```

```

maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs         INTEGER ::= 65535

```

```

-- *****
--
-- Lists
--
-- *****

```

```

maxNrOfCodes          INTEGER ::= 10
maxNrOfCmpatterns     INTEGER ::= 8
maxNrOfDLCodes        INTEGER ::= 10
maxNrOfErrors         INTEGER ::= 10
maxNrOfTFs            INTEGER ::= 10
maxNrOfTFCs           INTEGER ::= 10
maxNrOfRLs            INTEGER ::= 10
maxNrOfRLSets        INTEGER ::= 10
maxNrOfDPCHs          INTEGER ::= 10
maxNrOfSCCPCHs       INTEGER ::= 10
maxNrOfPRACHs         INTEGER ::= 10
maxNrOfDCHs           INTEGER ::= 10
maxNrOfDSCHs          INTEGER ::= 10
maxNrOfFACHs          INTEGER ::= 10
maxNrOfCCTrCHs        INTEGER ::= 10
maxNrOfPDSCHs         INTEGER ::= 10
maxNrOfPUSCHs         INTEGER ::= 10
maxNrOfPDSCHSets     INTEGER ::= 10
maxNrOfPUSCHSets     INTEGER ::= 10
maxNrOfULTSs          INTEGER ::= 15
maxNrOfUSCHs          INTEGER ::= 10
maxSF                  INTEGER ::= 10
maxCellInNodeB        INTEGER ::= 10
maxCCPinNodeB         INTEGER ::= 10
maxCTFC-1              INTEGER ::= 10
maxLocalCellInNodeB  INTEGER ::= 10
maxRACHCell           INTEGER ::= 10
maxPRACHCell          INTEGER ::= 10

```

```

maxSCCPCHCell          INTEGER ::= 10
maxSCPICHCell          INTEGER ::= 10
maxTTI-count           INTEGER ::= 10
maxIBSEG               INTEGER ::= 10
maxIB                  INTEGER ::= 10
maxFACHCell            INTEGER ::= 10
maxRateMatching        INTEGER ::= 10
maxCodeNrComp-1       INTEGER ::= 10
maxNrOfCodeGroups      INTEGER ::= 10
maxNrOfTFCIGroups      INTEGER ::= 10
maxNrOfTFCI1Combs      INTEGER ::= 10
maxNrOfTFCI2Combs      INTEGER ::= 10
maxCTFC-DCH-1          INTEGER ::= 10
maxCTFC-DSCH-1         INTEGER ::= 10
maxNrOfSF              INTEGER ::= 8
    
```

```

-- *****
--
-- IEs
--
-- *****
    
```

```

id-AICH-InformationItem-AuditRsp          INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd  INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD INTEGER ::= 2
id-AllRLItem-DM-Rprt                       INTEGER ::= 3
id-AllRLItem-DM-Rsp                         INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                    INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                     INTEGER ::= 6
id-BCH-InformationItem-AuditRsp             INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd     INTEGER ::= 8
id-BCCH-ModificationTime                   INTEGER ::= 9
id-BlockingPriorityIndicator                INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD              INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD              INTEGER ::= 12
id-Cause                                    INTEGER ::= 13
id-CCP-InformationItem-AuditRsp             INTEGER ::= 14
id-CCP-InformationList-AuditRsp             INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd     INTEGER ::= 16
id-Cell-InformationItem-AuditRsp            INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd    INTEGER ::= 18
id-Cell-InformationList-AuditRsp            INTEGER ::= 19
id-CellItem-CM-Rprt                         INTEGER ::= 20
id-CellItem-CM-Rqst                         INTEGER ::= 21
id-CellItem-CM-Rsp                          INTEGER ::= 22
id-CellParameterID                          INTEGER ::= 23
id-CFN                                       INTEGER ::= 24
id-C-ID                                     INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD      INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD          INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD          INTEGER ::= 28
    
```

id-CombiningItem-RL-SetupFailureFDD	INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD	INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt	INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst	INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp	INTEGER ::= 33
id-CommonMeasurementType	INTEGER ::= 34
id-CommonPhysicalChannelID	INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
<del>id-CommonTransportChannelType-CTCH-SetupRsp</del>	<del>INTEGER ::= 39</del>
id-CommunicationControlPortID	INTEGER ::= 40
id-CM-PatternInformationItem-CompressedModePrep	INTEGER ::= 41
id-CM-PatternInformationList-CompressedModePrep	INTEGER ::= 42
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddListIE-RL-ReconfReady	INTEGER ::= 46
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 47
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 60
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 61
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType	INTEGER ::= 66
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 71
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 74
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 75
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79

id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 110
id-DSCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 111
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-DSCH-SetupListIE-RL-ReconfReady	INTEGER ::= 114
id-DSCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 115
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 119
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersList-CTCH-SetupRsp	INTEGER ::= 315
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-MaxAdjustmentPeriod	INTEGER ::= 129

id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD	INTEGER ::= 142
id-NodeB-CommunicationContextID	INTEGER ::= 143
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153
id-PCH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 154
id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
id-PCH-Parameters-CTCH-SetupRsp	INTEGER ::= 316
id-PCH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 157
id-PCH-InformationItem-AuditRsp	INTEGER ::= 158
id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 159
id-PD	INTEGER ::= 160
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 165
id-PICH-InformationItem-AuditRsp	INTEGER ::= 166
id-PICH-Parameters-CTCH-ReconfRqstFDD	INTEGER ::= 167
id-PICH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 168
id-PowerAdjustmentType	INTEGER ::= 169
id-PRACH-InformationItem-AuditRsp	INTEGER ::= 170
id-PRACH-InformationItem-ResourceStatusInd	INTEGER ::= 171
id-PRACHItem-CTCH-SetupRqstFDD	INTEGER ::= 172
id-PRACHItem-CTCH-SetupRqstTDD	INTEGER ::= 173
id-PRACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 174
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	INTEGER ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 179

id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 180
id-PrimaryScramblingCode	INTEGER ::= 181
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 182
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 183
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 189
id-RACH-InformationItem-AuditRsp	INTEGER ::= 190
id-RACH-InformationItem-ResourceStatusInd	INTEGER ::= 191
id-RACHItem-CTCH-SetupRsp	INTEGER ::= 192
id-RACHItem-CM-Rprt	INTEGER ::= 193
id-RACHItem-CM-Rqst	INTEGER ::= 194
id-RACHItem-CM-Rsp	INTEGER ::= 195
id-RACH-Parameters-CTCH-SetupRsp	INTEGER ::= 317
id-RACH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	INTEGER ::= 197
id-ReportCharacteristics	INTEGER ::= 198
id-Reporting-Object-RL-FailureInd	INTEGER ::= 199
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 200
id-RL-ID	INTEGER ::= 201
id-RL-InformationItem-DM-Rprt	INTEGER ::= 202
id-RL-InformationItem-DM-Rqst	INTEGER ::= 203
id-RL-InformationItem-DM-Rsp	INTEGER ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	INTEGER ::= 205
id-RL-informationItem-RL-DeletionRqst	INTEGER ::= 206
id-RL-InformationItem-RL-FailureInd	INTEGER ::= 207
id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 212
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 213
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 215
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 221
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 227
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 229



id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 230
id-RLItem-DM-Rprt	INTEGER ::= 231
id-RLItem-DM-Rqst	INTEGER ::= 232
id-RLItem-DM-Rsp	INTEGER ::= 233
id-RLItem-RL-FailureInd	INTEGER ::= 234
id-RLItem-RL-RestoreInd	INTEGER ::= 235
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 236
id-RL-ReconfigurationFailureList-RL-ReconfFailure	INTEGER ::= 237
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 238
id-RL-SetItem-DM-Rqst	INTEGER ::= 239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 266
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 267
id-SFN	INTEGER ::= 268
id-ShutdownTimer	INTEGER ::= 269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273
id-SyncCase	INTEGER ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 275
id-T-Cell	INTEGER ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	INTEGER ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
id-TransmissionDiversityApplied	INTEGER ::= 279
id-UARFCNforNt	INTEGER ::= 280

id-UARFCNforNd	INTEGER ::= 281
id-UARFCNforNu	INTEGER ::= 282
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 283
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 286
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 287
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 292
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-SetupRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-USCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 311
id-USCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 312
id-USCH-SetupListIE-RL-ReconfReady	INTEGER ::= 313
id-USCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 314

END

## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433 CR 138r1**

Current Version: **3.1.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#8**

list expected approval meeting # here ↑

for approval   
for information

strategic   
non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** May 22<sup>nd</sup> 2000

**Subject:** Simplified fault handling for Common Transport Channel Reconfiguration

**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:** CR138r1:  
The indentation in the tabular format has been corrected.  
The use of extension protocol containers has been corrected.  
CR138:  
The option of which channels can be reconfigured simultaneously (in one message) is decreased to the same options as Common Transport Channel Setup. The reason is to decrease the fault situations that can occur.

**Clauses affected:** 8.2.2.2, 9.1.5, 9.3.3, 9.3.7

**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:

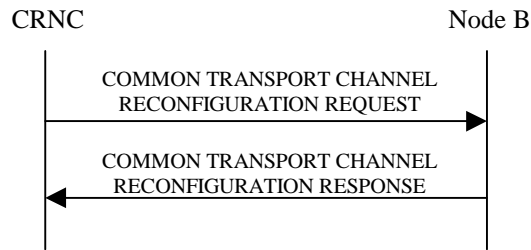
**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

## 8.2.2.2 Successful Operation



**Figure 1: Common Transport Channel Reconfiguration, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B.

One message can configure only one of the following combinations:

- [FDD- FACHes, one PCH and/or one PICH related to one Secondary CCPCH], or
- [TDD- Secondary CCPCHes and FACHes, PCH with the corresponding PICH related to that group of Secondary CCPCHes], or
- one RACH and/or one AICH(FDD) related to one PRACH,

at the time.

**[TDD S-CCPCH:** If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *S-CCPCH Power* IE, the Node B shall reconfigure the power that the indicated S-CCPCH shall use.]

**FACH:** When one or several FACHs are present Node B reconfigures the indicated FACHs.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the FACH may use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the FACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the FACH shall use.

**PCH:** When the PCH is present Node B reconfigures the indicated PCH.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

**PICH:** When a PICH is present Node B reconfigures the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

**[FDD- PRACH]:** When a PRACH is present Node B reconfigures the indicated PRACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Preamble Signatures Information, the Node B shall reconfigure the preamble signatures that the PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Slot Format Information, the Node B shall reconfigure the slot formats that the PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Sub Channel Information, the Node B shall reconfigure the sub channel numbers that the PRACH shall use.

**[FDD- AICH]:** When a AICH is present Node B reconfigures the indicated AICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power* IE, the Node B shall reconfigure the power that the AICH shall use.

After a successful procedure, the channels have adopted the new configuration in Node B. Node B shall store the value of *Configuration Generation ID* IE, and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

## 9.1.5 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
<b>CHOICE common physical channel to be reconfigured</b>					YES	reject
<b>&gt;Secondary CCPCH</b>					YES	reject
<b>&gt;&gt;FACH parameters</b>		0..<maxFACHCell>			GLOBAL	reject
>>>Common Transport Channel ID	M				–	
>>>Max FACH Power	O		DL Power	Maximum allowed power on the FACH.	–	
>>>ToAWS	O				–	
>>>ToAWE	O				–	
<b>&gt;&gt;PCH Parameters</b>		0..1			YES	reject
>>>Common Transport Channel ID	M				–	
>>>PCH Power	O		DL Power	Power to be used on the PCH.	–	
>>>ToAWS	O				–	
>>>ToAWE	O				–	
<b>&gt;&gt;PICH Parameters</b>		0..1			YES	reject
>>>Common Physical Channel ID	M				–	
>>>PICH Power	M		DL Power	Power to be used on the PICH.	–	
<b>&gt;PRACH</b>					YES	reject
<b>&gt;&gt;PRACH Parameters</b>		0..<maxno ofPRACHs >			GLOBAL	reject
>>>Common Physical Channel ID	M				–	
>>>Preamble Signatures	M				–	
<b>&gt;&gt;&gt;Allowed Slot Format Information</b>		0..<maxSF >			–	
>>>>RACH Slot Format	M				–	
>>>>RACH Sub Channel Numbers	O				–	
<b>&gt;&gt;AICH Parameters</b>		0..<maxno ofPRACHs >			GLOBAL	reject

		>				
>>Common Physical Channel ID	M				-	
>>AICH Power	M		DL Power	Power to be used on the AICH.	-	

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				-	
Message Type	M				YES	reject
Transaction ID	M				-	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
<b>Secondary CCPCH parameters</b>		0 .. 1			YES	reject
>CCTrCH ID	M			For DL CCTrCH supporting one or several Secondary CCPCHs	-	
<b>&gt;Secondary CCPCHs to be configured</b>		0.. <MaxnoofS CCPCHs>			GLOBAL	reject
>>Common physical channel ID	M				-	
>>S-CCPCH Power	M			DL power	-	
<b>PICH Parameters</b>		0 .. 1			YES	reject
>Common physical channel ID	M				-	
>PICH Power	M				-	
<b>FACH parameters</b>		0..<Maxno ofFACHs>			GLOBAL	reject
>Common Transport Channel ID	M				-	
>ToAWS	O				-	
>ToAWE	O				-	
<b>PCH parameters</b>		0 .. 1			GLOBAL	reject
>Common Transport Channel ID	M				-	
>ToAWS	O				-	
>ToAWE	O				-	

<b>Range bound</b>	<b>Explanation</b>
<i>MaxFACHCell</i>	Maximum number of FACHs that can be repeated in a Cell



### 9.3.3 NBAP PDU Content Definitions

A part has been removed.

FROM NBAP-Containers

```

id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersList-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRLItem-Set-DM-Rprt,
id-AllRLItem-Set-DM-Rsp,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
id-C-ID,
id-CombiningItem-RL-AdditionFailureFDD,
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rqst,
id-CommonMeasurementObjectType-CM-Rsp,
id-CommonMeasurementType,
id-CommonPhysicalChannelID,
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,
id-CommonTransportChannelType-CTCH-SetupRsp,
id-CommunicationControlPortID,
id-CM-PatternInformationItem-CompressedModePrep,

```

id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,

id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
~~id-FACH-ParametersList-CTCH-ReconfRqstFDD,~~  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeBInformation-AuditRep,  
id-No-DeletionItem-SystemInfoUpdate,  
id-No-FailureItem-ResourceStatusInd,  
id-Non-CombiningItem-RL-AdditionFailureFDD,  
id-Non-CombiningItem-RL-AdditionRspFDD,  
id-Non-CombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD,  
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD,  
id-NodeB-CommunicationContextID,

id-P-CCPCH-InformationItem-AuditRsp,  
 id-P-CCPCH-InformationItem-ResourceStatusInd,  
 id-P-CPICH-InformationItem-AuditRsp,  
 id-P-CPICH-InformationItem-ResourceStatusInd,  
 id-P-SCH-InformationItem-AuditRsp,  
 id-P-SCH-InformationItem-ResourceStatusInd,  
 id-PCCPCH-Information-Cell-ReconfRqstTDD,  
 id-PCCPCH-Information-Cell-SetupRqstTDD,  
 id-PCH-InformationItem-ResourceStatusInd,  
 id-PCHItem-CTCH-SetupRsp,  
~~id-PCH-Parameters-CTCH-ReconfRqstFDD,~~  
 id-PCH-Parameters-CTCH-ReconfRqstTDD,  
 id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
 id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
 id-PCH-InformationItem-AuditRsp,  
 id-PICH-InformationItem-ResourceStatusInd,  
 id-PD,  
 id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
 id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
 id-PDSCHSets-AddList-PSCH-ReconfRqst,  
 id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
 id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
 id-PICH-InformationItem-AuditRsp,  
~~id-PICH-Parameters-CTCH-ReconfRqstFDD,~~  
 id-PICH-Parameters-CTCH-ReconfRqstTDD,  
 id-PowerAdjustmentType,  
 id-PRACH-InformationItem-AuditRsp,  
 id-PRACH-InformationItem-ResourceStatusInd,  
 id-PRACHItem-CTCH-SetupRqstFDD,  
 id-PRACHItem-CTCH-SetupRqstTDD,  
~~id-PRACHListIE-CTCH-ReconfRqstFDD,~~  
~~id-PRACH-ParametersList-CTCH-ReconfRqstFDD,~~  
 id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
 id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
 id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
 id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
 id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
 id-PrimarySCH-Information-Cell-SetupRqstFDD,  
 id-PrimaryScramblingCode,  
 id-ProcedureScopeType-DL-PC-Rqst,  
 id-SCH-Information-Cell-ReconfRqstTDD,  
 id-SCH-Information-Cell-SetupRqstTDD,  
 id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
 id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
 id-PUSCHSets-AddList-PSCH-ReconfRqst,  
 id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
 id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
 id-RACH-InformationItem-AuditRsp,  
 id-RACH-InformationItem-ResourceStatusInd,  
 id-RACHItem-CTCH-SetupRsp,  
 id-RACHItem-CM-Rprt,

id-RACHItem-CM-Rqst,  
id-RACHItem-CM-Rsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-ReconfigurationFailureList-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rsp,

id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-S-CCPCH-InformationItem-AuditRsp,  
id-S-CCPCH-InformationItem-ResourceStatusInd,  
id-S-CPICH-InformationItem-AuditRsp,  
id-S-CPICH-InformationItem-ResourceStatusInd,  
id-SCH-InformationItem-AuditRsp,  
id-SCH-InformationItem-ResourceStatusInd,  
id-S-SCH-InformationItem-AuditRsp,  
id-S-SCH-InformationItem-ResourceStatusInd,  
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD,  
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-ServiceImpactingItem-ResourceStatusInd,  
id-SFN,  
id-ShutdownTimer,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,

id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-information-AddList-RL-ReconfPrepTDD,  
id-USCH-Information-AddList-RL-ReconfRqstTDD,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-USCH-InformationResponseListIE-RL-SetupRspTDD,  
id-USCH-InformationList-RL-SetupRqstTDD,  
id-USCH-ModifyListIE-RL-ReconfReady,  
id-USCH-ModifyListIE-RL-ReconfRsp,  
id-USCH-SetupListIE-RL-ReconfReady,  
id-USCH-SetupListIE-RL-ReconfRsp,

## A part has been removed.

```

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

CommonTransportChannelReconfigurationRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelReconfigurationRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestFDD-Extensions}}    OPTIONAL,
    ...
}

CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY reject      TYPE C-ID          PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY reject      TYPE ConfigurationGenerationID PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD CRITICALITY reject      TYPE CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE mandatory }|
    { ID id-FACH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject      TYPE FACH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional }|
    { ID id-PCH-Parameters-CTCH-ReconfRqstFDD CRITICALITY reject      TYPE PCH-Parameters-CTCH-ReconfRqstFDD PRESENCE optional }|
    { ID id-PICH-Parameters-CTCH-ReconfRqstFDD CRITICALITY reject      TYPE PICH-Parameters-CTCH-ReconfRqstFDD PRESENCE optional }|
    { ID id-PRACH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject      TYPE PRACH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional }|
    { ID id-AICH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject      TYPE AICH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional }|
    ...
}

CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters Secondary-CCPCHList-CTCH-ReconfRqstFDD,
    pRACH-parameters          PRACH-CTCHList-ReconfRqstFDD,
    ...
}

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHListIEs-CTCH-ReconfRqstFDD }}

Secondary-CCPCHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD CRITICALITY reject      TYPE Secondary-CCPCHListIE-CTCH-ReconfRqstFDD PRESENCE optional },
    ...
}

Secondary-CCPCHListIE-CTCH-ReconfRqstFDD ::= SEQUENCE {
    fACH-ParametersList-CTCH-ReconfRqstFDD FACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    pCH-Parameters-CTCH-ReconfRqstFDD PCH-Parameters-CTCH-ReconfRqstFDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer {{ Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs }} OPTIONAL,
    ...
}

FACH-ParametersList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-ParametersItem-CTCH-ReconfRqstFDD

```



```
FACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    maxFACH-Power                 DL-Power          OPTIONAL,
    toAWS                         ToAWS             OPTIONAL,
    toAWE                         ToAWE             OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
PCH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    pCH-Power                     DL-Power          OPTIONAL,
    toAWS                         ToAWS             OPTIONAL,
    toAWE                         ToAWE             OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
PCH-Parameters-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
PICH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    pICH-Power                    DL-Power,
    iE-Extensions                 ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
PICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
PRACHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ PRACHListIEs-CTCH-ReconfRqstFDD }}
```

```
PRACHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACHListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACHListIE-CTCH-ReconfRqstFDD PRESENCE optional },
    ...
}
```

```
PRACHListIE-CTCH-ReconfRqstFDD ::= SEQUENCE {
    pRACH-ParametersList-CTCH-ReconfRqstFDD PRACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    aICH-ParametersList-CTCH-ReconfRqstFDD AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
}
```

```

    iE-Extensions
    ProtocolExtensionContainer { { PRACH-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
}
]

PRACH-ParametersList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHs)) OF PRACH-ParametersItem-CTCH-ReconfRqstFDD

PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    preambleSignatures                PreambleSignatures,
    allowedSlotFormatInformationList-CTCH-ReconfRqstFDD OPTIONAL,
    rACH-SubChannelNumbers            RACH-SubChannelNumbers OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSF)) OF AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    rACH-SlotFormat                    RACH-SlotFormat,
    iE-Extensions                     ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-ParametersList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHs)) OF AICH-ParametersItem-CTCH-ReconfRqstFDD

AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    aICH-Power                        DL-Power,
    iE-Extensions                     ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
]

```

## 9.3.7 Constant Definitions for NBAP

A part has been removed.

```

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp                INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd       INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD    INTEGER ::= 2
id-AllRLItem-DM-Rprt                            INTEGER ::= 3
id-AllRLItem-DM-Rsp                             INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                       INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                       INTEGER ::= 6
id-BCH-InformationItem-AuditRsp                INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd       INTEGER ::= 8
id-BCH-ModificationTime                       INTEGER ::= 9
id-BlockingPriorityIndicator                   INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD                 INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD                 INTEGER ::= 12
id-Cause                                       INTEGER ::= 13
id-CCP-InformationItem-AuditRsp                INTEGER ::= 14
id-CCP-InformationList-AuditRsp               INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd       INTEGER ::= 16
id-Cell-InformationItem-AuditRsp               INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd       INTEGER ::= 18
id-Cell-InformationList-AuditRsp               INTEGER ::= 19
id-CellItem-CM-Rprt                            INTEGER ::= 20
id-CellItem-CM-Rqst                            INTEGER ::= 21
id-CellItem-CM-Rsp                             INTEGER ::= 22
id-CellParameterID                             INTEGER ::= 23
id-CFN                                         INTEGER ::= 24
id-C-ID                                        INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD         INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD             INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD             INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD            INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD                INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt         INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst         INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp          INTEGER ::= 33
id-CommonMeasurementType                       INTEGER ::= 34
id-CommonPhysicalChannelID                     INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD INTEGER ::= XXX
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD INTEGER ::= 36

```

id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
id-CommonTransportChannelType-CTCH-SetupRsp	INTEGER ::= 39
id-CommunicationControlPortID	INTEGER ::= 40
id-CM-PatternInformationItem-CompressedModePrep	INTEGER ::= 41
id-CM-PatternInformationList-CompressedModePrep	INTEGER ::= 42
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddListIE-RL-ReconfReady	INTEGER ::= 46
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 47
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 60
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 61
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType	INTEGER ::= 66
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 71
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 74
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 75
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87

id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 110
id-DSCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 111
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-DSCH-SetupListIE-RL-ReconfReady	INTEGER ::= 114
id-DSCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 115
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
<del>id-FACH-ParametersList-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 119</del>
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-MaxAdjustmentPeriod	INTEGER ::= 129
id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138

id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD	INTEGER ::= 142
id-NodeB-CommunicationContextID	INTEGER ::= 143
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153
<del>id-PCH-Parameters-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 154</del>
id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 157
id-PCH-InformationItem-AuditRsp	INTEGER ::= 158
id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 159
id-PD	INTEGER ::= 160
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 165
id-PICH-InformationItem-AuditRsp	INTEGER ::= 166
<del>id-PICH-Parameters-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 167</del>
id-PICH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 168
id-PowerAdjustmentType	INTEGER ::= 169
id-PRACH-InformationItem-AuditRsp	INTEGER ::= 170
id-PRACH-InformationItem-ResourceStatusInd	INTEGER ::= 171
id-PRACHItem-CTCH-SetupRqstFDD	INTEGER ::= 172
id-PRACHItem-CTCH-SetupRqstTDD	INTEGER ::= 173
<del>id-PRACHListIE-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= XXX</del>
<del>id-PRACH-ParametersList-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 174</del>
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	INTEGER ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 180
id-PrimaryScramblingCode	INTEGER ::= 181
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 182
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 183
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 188

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id-PUSCHSets-ModifyList-PSCH-ReconfRqst  
id-RACH-InformationItem-AuditRsp  
id-RACH-InformationItem-ResourceStatusInd  
id-RACHItem-CTCH-SetupRsp  
id-RACHItem-CM-Rprt  
id-RACHItem-CM-Rqst  
id-RACHItem-CM-Rsp  
id-RACH-ParametersItem-CTCH-SetupRqstFDD  
id-RACH-ParameterItem-CTCH-SetupRqstTDD  
id-ReportCharacteristics  
id-Reporting-Object-RL-FailureInd  
id-Reporting-Object-RL-RestoreInd  
id-RL-ID  
id-RL-InformationItem-DM-Rprt  
id-RL-InformationItem-DM-Rqst  
id-RL-InformationItem-DM-Rsp  
id-RL-InformationItem-RL-AdditionRqstFDD  
id-RL-informationItem-RL-DeletionRqst  
id-RL-InformationItem-RL-FailureInd  
id-RL-InformationItem-RL-ReconfPrepFDD  
id-RL-InformationItem-RL-ReconfRqstFDD  
id-RL-InformationItem-RL-RestoreInd  
id-RL-InformationItem-RL-SetupRqstFDD  
id-RL-InformationList-RL-AdditionRqstFDD  
id-RL-informationList-RL-DeletionRqst  
id-RL-InformationList-RL-ReconfPrepFDD  
id-RL-InformationList-RL-ReconfRqstFDD  
id-RL-InformationList-RL-SetupRqstFDD  
id-RL-InformationResponseItem-RL-AdditionRspFDD  
id-RL-InformationResponseItem-RL-ReconfReady  
id-RL-InformationResponseItem-RL-ReconfRsp  
id-RL-InformationResponseItem-RL-SetupRspFDD  
id-RL-InformationResponseList-RL-AdditionRspFDD  
id-RL-InformationResponseList-RL-ReconfReady  
id-RL-InformationResponseList-RL-ReconfRsp  
id-RL-InformationResponseList-RL-SetupRspFDD  
id-RL-InformationResponse-RL-AdditionRspTDD  
id-RL-InformationResponse-RL-SetupRspTDD  
id-RL-Information-RL-AdditionRqstTDD  
id-RL-Information-RL-ReconfRqstTDD  
id-RL-Information-RL-ReconfPrepTDD  
id-RL-Information-RL-SetupRqstTDD  
id-RLItem-DM-Rprt  
id-RLItem-DM-Rqst  
id-RLItem-DM-Rsp  
id-RLItem-RL-FailureInd  
id-RLItem-RL-RestoreInd  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure  
id-RL-ReconfigurationFailureList-RL-ReconfFailure  
id-RL-Set-InformationItem-DM-Rprt  
id-RL-SetItem-DM-Rqst

**366**

INTEGER ::= 189  
INTEGER ::= 190  
INTEGER ::= 191  
INTEGER ::= 192  
INTEGER ::= 193  
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INTEGER ::= 234  
INTEGER ::= 235  
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INTEGER ::= 237  
INTEGER ::= 238  
INTEGER ::= 239

id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
<u>id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD</u>	<u>INTEGER ::= XXX</u>
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 266
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 267
id-SFN	INTEGER ::= 268
id-ShutdownTimer	INTEGER ::= 269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273
id-SyncCase	INTEGER ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 275
id-T-Cell	INTEGER ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	INTEGER ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
id-TransmissionDiversityApplied	INTEGER ::= 279
id-UARFCNforNt	INTEGER ::= 280
id-UARFCNforNd	INTEGER ::= 281
id-UARFCNforNu	INTEGER ::= 282
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 283
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 286
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 287
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289



id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 292
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-USCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 311
id-USCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 312
id-USCH-SetupListIE-RL-ReconfReady	INTEGER ::= 313
id-USCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 314

END

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>25.433</b>	<b>CR</b>	<b>145r2</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here</small>		Current Version: <b>3.1.0</b>
for approval for information		strategic <input checked="" type="checkbox"/> (for SMG use only) non-strategic <input type="checkbox"/>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** April 2000

**Subject:** Introduction of the SFN IE

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:**

CR145r2:  
The reference refers to the reference chapter, instead of being implicit.

CR145r1:  
The IE is changed to be SFN.

CR145:  
In the current NBAP specification the SFN IE is used in chapter 9.1, e.g. COMMON MEASUREMENT REPORT message, but is not defined in chapter 9.2. Further more, there is no defined value range in the ASN.1.

This CR corrects these errors.

**Clauses affected:** 9.2.1.x and 9.3.4

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	
------------------------------	---	--	--

**Other comments:**

<----- double-click here for help and instructions on how to create a CR.

9.2.1.x SFN

System Frame Number of the cell, see ref. [17].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>SFN</u>			<u>Integer</u> <u>(0..4095)</u>	

## 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCS,
    maxNrOfErrors,
    maxCTFC-1,
    maxNrOfTFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCodeGroups,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxCTFC-DCH-1,
    maxCTFC-DSCH-1,
    maxNrOfSF
FROM NBAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM NBAP-CommonDataTypes

    ProtocolExtensionContainer{},
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;

-- =====
-- A
-- =====

<Omitted parts of the ASN.1 module.>

-- =====
-- S
-- =====

```

```
ScaledMaxAdjustmentPeriod ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

ScramblingCodeChange ::= ENUMERATED {
    code-change,
    no-code-change,
    ...
}

ScramblingCodeWordNumber ::= INTEGER (0..255)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)

S-FieldLength ::= ENUMERATED {
    v1,
    v2,
    ...
}

-- to do, This parameter is present in NBAP tabular but not defined in IE(TS25.433v3.0.0)
SFN ::= INTEGER (0..4095)

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

SIB-DeletionIndicator ::= ENUMERATED {
    noDeletion,
    deletion,
    ...
}

SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
    ...
}

SIR-Error-Value ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SSDT-Cell-Identity ::= ENUMERATED {a, b, c, d, e, f, g, h}
```

```
SSDT-CellID-Length ::= ENUMERATED {
    short,
    medium,
    long,
    ...
}

SSDT-Indication ::= ENUMERATED {
    ssdt-active-in-the-UE,
    ssdt-not-active-in-the-UE,
    ...
}

STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-Supported,
    sSDT-not-supported,
    ...
}

SyncCase ::= INTEGER (1..2)

-- =====
-- T
-- =====

<The rest of the ASN.1 module is omitted.>
```

<h1 style="margin: 0;">CHANGE REQUEST</h1>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
<b>25.433</b>	<b>CR</b>	<b>147r2</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>TSG RAN8</b> <small>list expected approval meeting # here ↑</small>		Current Version: <b>3.1.0</b>
for approval <input checked="" type="checkbox"/>		strategic <input type="checkbox"/>
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:**    R-WG3    **Date:**    17May2000

**Subject:**    Alignment of System Information Update procedure to TS 25.331 CR 304

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:**    This CR proposes to align System Information Update procedure with TS 25.331 CR 304 (R2-000771).  
 The requirements which are set to the Node B operation in case of Modification of system information needs to be modified: If the SYSTEM INFORMATION UPDATE REQUEST message contains MIB segment in addition to SIB segments, it is the new MIB segment that is sent first in the radio interface. If 'BCCH Modification Time' IE is included in the message, this starting time is bound to the moment when the first new MIB segment will be sent in the radio interface.

**Clauses affected:**    8.2.16.2, 9.2.1.3

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:	
------------------------------	--	--

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

---

## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] 3G TS 25.401: "UTRAN Overall Description".
- [2] 3G TS 25.426: "UTRAN  $I_{ur}$  and  $I_{ub}$  Interface Data Transport & Transport Signalling for DCH Data Streams".
- [3] CCITT Recommendation X.731 (01/92): "Information Technology – Open Systems Interconnection – Systems Management: State Management function".
- [4] 3G TS 25.215: "Physical layer – Measurements (FDD)".
- [5] 3G TS 25.225: "Physical layer – Measurements (TDD)".
- [6] 3G TS 25.430: "UTRAN  $I_{ub}$  General Aspect and Principle".
- [7] 3G TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [8] 3G TS 25.212: "Multiplexing and channel coding (FDD)".
- [9] 3G TS 25.213: "Spreading and modulation (FDD)".
- [10] 3G TS 25.214: "Physical layer procedures (FDD)".
- [11] X.691, (12/94) "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [12] X.680, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1):Specification of basic notation".
- [13] X.681, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Information object specification"
- [14] 3G TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- [15] 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [16] [3G TS 25.331: "RRC Protocol Specification"](#)

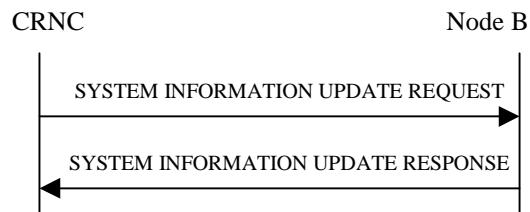
### 8.2.16 System Information Update

#### 8.2.16.1 General

The System Information Update procedure performs the scheduling and provision of system information segments broadcast on the BCCH, to the Node B.



## 8.2.16.2 Successful Operation



**Figure 22: System Information Update procedure: Successful Operation**

The procedure is initiated with a SYSTEM INFORMATION UPDATE REQUEST message sent from the CRNC to the Node B.

If the SYSTEM INFORMATION UPDATE REQUEST message includes segments of a certain MIB/SIB, the Node-B shall assume that all segments for that Information Block are included in the message and ordered with increasing Segment Index (starting from 0).

If the SYSTEM INFORMATION UPDATE message includes the BCCH Modification Time IE, the new segments provided in the SYSTEM INFORMATION UPDATE REQUEST message shall be applied by Node B at the first time instance starting from the SFN value set by the BCCH Modification Time IE. If no BCCH Modification Time IE is included, the new segments shall be applied as soon as possible.

The Node B shall determine the correct cell system frame number(s) (SFN) for transmission of the segments of system information, from the scheduling parameters provided in the SYSTEM INFORMATION UPDATE REQUEST message. The SFN for transmitting the segments shall be determined by the SIB SG REP IE and SIB SG POS IE such that:

$$- \text{SFN mod IB\_SG\_REP} = \text{IB\_SG\_POS}$$

If the SYSTEM INFORMATION UPDATE REQUEST message contains Master Information Block (MIB) segments in addition to SIB segments, the MIB segments shall ~~be first be sent updated last~~ in the physical channel ~~scheduling cycle~~ by the Node B. Once these MIB segments have been sent in the physical channel, the updated SIB segments shall then be sent in the physical channel.

The Segment Type IE shall be used by the Node B to concatenate several segments into one BCH transport block. The allowed combinations of concatenation are specified in TS 25.331.

If the SIB Deletion Indicator IE value is set to 'Deletion' the Node B shall delete the SIB of the type indicated by the SIB Type IE from the transmission schedule on BCCH.

If the SIB Originator IE value is set to 'Node B' the Node B shall create the SIB segment of the SIB type given by the IB Type IE and autonomously update the SIB segment and apply the scheduling and repetition as given by the IB SG REP IE and IB SG POS IE.

SIBs originating from the Node B can only be SIBs containing information that the Node B can obtain on its own.

If the Node B successfully completes the updating of the physical channel scheduling cycle according to the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond to the CRNC with a SYSTEM INFORMATION UPDATE RESPONSE message.

### 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..511, 2, 4, ..., 4094)	All <del>even</del> -SFN values in which MIB may be mapped are allowed.  The tabular description is presented in [16]. The tabular description is a direct copy from TS-25.331 CR-078

```
-- =====  
-- B  
-- =====
```

```
BCCH-ModificationTime ::= INTEGER (0..5112047)  
-- Time = BCCH-ModificationTime * 82  
-- Range 0 to 408894, step 82  
-- All even SFN values in which MIB may be mapped are allowed
```

**3GPP TSG-RA WG3 Meeting #13  
Hawaii, USA, 22-26 May 2000**

**Document R3-001584**

e.g. for 3GPP use the format TP-99xxx  
or for SMG, use the format P-99-xxx

<b>CHANGE REQUEST</b>				<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>	
<b>25.433</b>		<b>CR 148r2</b>		Current Version: <b>3.1.0</b>	
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>			
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here ↑</small>		for approval for information <input checked="" type="checkbox"/>		strategic <input type="checkbox"/> (for SMG use only) non-strategic <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** May 2000

**Subject:** Reference for the limited power increase algorithm

**Work item:**

<b>Category:</b> <small>(only one category shall be marked with an X)</small>	F Correction	<input checked="" type="checkbox"/>	<b>Release:</b>	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
			Release 00	<input type="checkbox"/>	

**Reason for change:** This CR proposes to align Limited Power Increase procedure with WG1 TS 25.214.

**Clauses affected:** 9.2.1.47 Limited Power Increase

<b>Other specs affected:</b>	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

### 9.2.1.47 Limited Power Increase

The parameter is used for a more efficient use of the inner loop DL power control for non real time data.

If the limited power increase is used, ~~Node B shall not increase the DL power of the RL if it exceeds by more than *Power\_Raise\_Limit* dB the averaged DL power used in the last *DL\_power\_averaging\_window\_size* timeslots of the same RL. Node B shall use the limited power increase algorithm as specified in [10], Chapter 5.2.~~

~~*Power\_Raise\_Limit* and *DL\_power\_averaging\_window\_size* are parameters configured in the Node B.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Limited Power Increase			ENUMERATED(Used, Not used)	

## 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 149r2**

Current Version: **3.1.0.**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**  
 list expected approval meeting # here ↑

for approval   
 For information

Strategic   
 non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
 (at least one should be marked with an X)

**Source:** R-WG3 **Date:** May , 2000

**Subject:** Handling of measurements non available

**Work item:**

<b>Category:</b> <small>(only one category shall be marked with an X)</small>	F Correction	<input checked="" type="checkbox"/>	<b>Release:</b>	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>		Release 98	<input type="checkbox"/>
D Editorial modification	<input type="checkbox"/>	Release 99		<input checked="" type="checkbox"/>	
			Release 00	<input type="checkbox"/>	

**Reason for change:**

It was noted during WG3#12 discussion that current specification does not describe what shall be reported in Common Measurement Report and Dedicated Measurement Report messages when measured value is temporarily not available during a periodic measurement.

With this CR we would like to propose that 'Measurement not Available' shall be reported when there is no valid measurement available.

Also new cause value "Measurement Temporarily not Available" is proposed to be added as one cause value to the Common Measurement Failure and Dedicated Measurement Failure messages.

**Clauses affected:** 8.2.8, 8.2.9, 8.3.8, 8.3.9, 9.1.20, 9.1.54, 9.2.1, 9.3.3, 9.3.4, 9.3.7

<b>Other specs affected:</b>	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

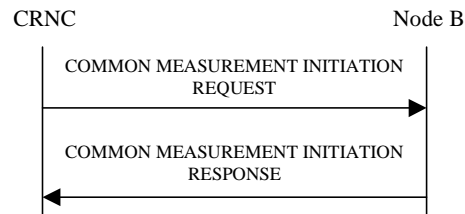
**Other comments:**

## 8.2.8 Common Measurement Initiation

### 8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

### 8.2.8.2 Successful Operation



**Figure 11: Common Measurement Initiation procedure: Successful Operation**

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B control port.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

[TDD- If the Time Slot Information is provided in the *Common Measurement Object Type IE*, the measurement request shall apply to the requested time slot individually.]

The *Report Characteristics IE* indicates how the reporting of the measurement shall be performed.

If the *Report Characteristics IE* is set to 'On-Demand', the Node B shall report the result of the requested measurement immediately.

If the *Report Characteristics IE* is set to 'Periodic', the Node B shall periodically initiate a Measurement Reporting procedure for this measurement, with the requested report frequency.

If the *Report Characteristics IE* is set to 'Event A', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics IE* is set to 'Event B', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics IE* is set to 'Event C', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics IE* is set to 'Event D', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics IE* is set to 'Event E', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity IE* is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics IE* is set to 'Event F', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time'

(Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows

$F_n$  is the updated filtered measurement result

$F_{n-1}$  is the old filtered measurement result

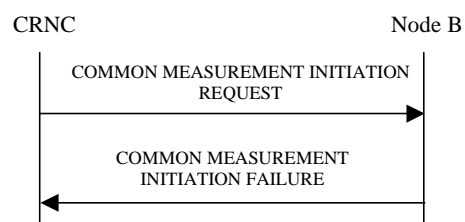
$M_n$  is the latest received measurement result from physical layer measurements

$a$  = one divided by the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present,  $a$  shall be set to 1 (no filtering)

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

If the Node B was able to initiate the measurement requested by the CRNC it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B control port. The message shall include the same Measurement Id that was used in the measurement request. Only in the case when the *Report Characteristics* IE is set to "On-Demand", the COMMON MEASUREMENT INITIATION RESPONSE message shall contain the measurement result.

### 8.2.8.3 Unsuccessful Operation



**Figure 12: Common Measurement Initiation procedure: Unsuccessful Operation**

If the requested measurement cannot be initiated, the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message sent over the Node B control port. The message shall include the same Measurement Id that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### Radio Network Layer Cause

- —Measurement not supported for the object.
- [Measurement Temporarily not Available](#)



8.2.8.4 Abnormal Conditions

-

8.2.9 Common Measurement Reporting

8.2.9.1 General

This procedure is used by a Node B to report the result of measurements requested by the CRNC with the Common Measurement Initiation procedure.

8.2.9.2 Successful Operation



**Figure 13: Common Measurement Reporting procedure: Successful Operation**

If the requested measurement reporting criteria are met, the Node B shall initiate a Measurement Reporting procedure. The COMMON MEASUREMENT REPORT message shall use the Node B control port. Unless specified below, the meaning of the parameters are given in other specifications.

The *Common Measurement Id* IE shall be set to the Common Measurement Id provided by the CRNC when initiating the measurement with the Common Measurement Initiation procedure.

If the achieved measurement accuracy does not fulfil the given accuracy requirement, the Measurement not available shall be reported.

8.2.9.3 Abnormal Conditions

-

8.2.10 Common Measurement Termination

8.2.10.1 General

This procedure is used by the CRNC to terminate a measurement previously requested by the Common Measurement Initiation procedure.

8.2.10.2 Successful Operation



**Figure 14: Common Measurement Termination procedure: Successful Operation**

This procedure is initiated with a COMMON MEASUREMENT TERMINATION REQUEST message, sent from the CRNC to the Node B using the Node B control port.

Upon reception, the Node B shall terminate reporting of measurements corresponding to the Common Measurement Id.

### 8.2.10.3 Abnormal Conditions

-

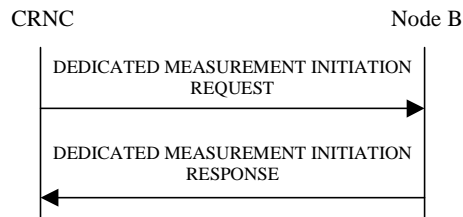
## 8.3.8 Dedicated Measurement Initiation

### 8.3.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on dedicated resources in a Node B.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.8.2 Successful Operation



**Figure 38: Dedicated Measurement Initiation procedure: Successful Operation**

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the communication control port assigned to the Node B communication context.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below the meaning of the parameters are given in other specifications.

If the Node B Communication Context Id IE equals the reserved value 'All NBCC', this measurement request shall apply for all current and future Node B Communication Contexts that can be contacted via the current communication control port. Otherwise, this measurement request shall apply for the requested Node B Communication Context Id only.

If the *Dedicated Measurement Object* IE is set to "RL", the measurement reports shall give the measurement result for each of the indicated Radio Links.

[FDD - If the *Dedicated Measurement Object* IE is set to "RLS", the measurement reports shall give the measurement result for each of the indicated Radio Link Sets.]

If the *Dedicated Measurement Object* IE is set to "ALL RL", the measurement reports shall give the measurement result for each of the current and future Radio Links within the Node B Communication Context.

[FDD - If the *Dedicated Measurement Object* IE is set to "ALL RLS", the measurement reports shall give the measurement result for each of the existing and future Radio Link Sets within the Node B Communication Context.]

[TDD - If DPCH Id is provided within the RL Information the measurement request shall apply for the requested physical channel individually.]

The *Report Characteristics* IE is set to how the reporting of the measurement shall be performed.

If the *Report Characteristics* IE is set to 'On-Demand', the Node B shall return the result of the measurement immediately.

If the *Report Characteristics* IE is set to 'Periodic', the Node B shall periodically initiate a Measurement Report procedure for this measurement, with the requested report frequency.

If the *Report Characteristics* IE is set to 'Event A', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event B', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event C', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'Event F', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows

$F_n$  is the updated filtered measurement result

$F_{n-1}$  is the old filtered measurement result

$M_n$  is the latest received measurement result from physical layer measurements

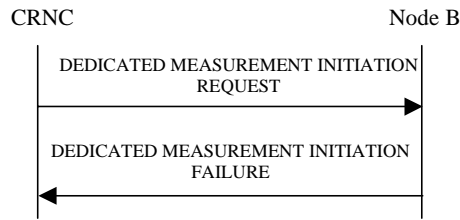
$a$  = one divided by the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present,  $a$  shall be set to 1 (no filtering)

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

If the Node B was able to initiate the measurement requested by the CRNC it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message using the communication control port assigned to the Node B communication context. The message shall include the same Measurement Id that was used in the measurement request.

Only in the case when *Report Characteristics* IE is set to "On-Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall contain the measurement result. In this case also the *Dedicated Measurement Object* IE shall be included if it was included in the request message.

### 8.3.8.3 Unsuccessful Operation



**Figure 39: Dedicated Measurement Request procedure: Unsuccessful Operation**

If the requested measurement cannot be initiated, the Node B shall send a DEDICATED MEASUREMENT INITIATION FAILURE message using the communication control port assigned to the Node B communication context. The message shall include the same Measurement Id that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer cause**

- —Measurement not supported for the object
- Measurement Temporarily not Available

**Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

### 8.3.8.4 Abnormal Conditions

-

## 8.3.9 Dedicated Measurement Reporting

### 8.3.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Dedicated Measurement Initiation procedure. The Node B may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link, as long as the Node B communication context exists.

### 8.3.9.2 Successful Operation



**Figure 40: Dedicated Measurement Reporting procedure: Successful Operation**

If the requested measurement reporting criteria are met, the Node B shall initiate a Measurement Reporting procedure. The DEDICATED MEASUREMENT REPORT message shall use the communication control port assigned to the Node B communication context. Unless specified below, the meaning of the parameters are given in other specifications.

The *Dedicated Measurement Id* IE shall be set to the Dedicated Measurement Id provided by the CRNC when initiating the measurement with the Dedicated Measurement Initiation procedure.

If the **achieved** measurement accuracy does not fulfil the given accuracy requirement, the Measurement not available shall be reported.

### 8.3.9.3 Abnormal Conditions

-

### 9.1.20 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M				-	
Message Type	M				YES	ignore
Transaction Id	M				-	
Measurement Id	M				YES	ignore
CHOICE Common Measurement Object Type					YES	ignore
>"Cell"					YES	ignore
>>CHOICE Measurement Availability Indicator						
>>>"Measurement Available"					YES	ignore
>>>>Common Measurement value	M				-	
>>>"Measurement not Available"			NULL		YES	ignore
>"RACH"					YES	ignore
>>CHOICE Measurement Availability Indicator						
>>>"Measurement Available"					YES	ignore
>>>>Common Measurement Value	M				-	
>>>"Measurement not Available"			NULL		YES	ignore
SFN	O			Common Measurement Time Reference	YES	ignore

### 9.1.54 DEDICATED MEASUREMENT REPORT

IE/Group Name	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" or "ALL RL"					YES	ignore
<b>&gt;&gt;RL Information</b>		1..<maxnoofRLs>			EACH	ignore
>>>RL-id	M				–	
>>>DPCH ID	O				–	
>>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>" <i>Measurement Available</i> "					YES	ignore
>>>>>Dedicated Measurement Value	M				–	
>>>>>" <i>Measurement not Available</i> "			NULL		YES	ignore
>"RLS" or "ALL RLS"						
<b>&gt;&gt;RL Set Information</b>		1..<maxnoofRLSets>				
>>>RL Set id	M					
>>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>>" <i>Measurement Available</i> "					YES	ignore
>>>>>>Dedicated Measurement Value	M					
>>>>>>" <i>Measurement not Available</i> "			NULL		YES	ignore
CFN	O			Dedicated Measurement Time Reference	YES	ignore



<b>Range</b>	<b>Explanation</b>
<i>MaxnoofRLs</i>	Maximum number of individual RL's the measurement can be started on.
<i>MaxnoofRLSets</i>	Maximum number of individual RL Sets a measurement can be started on.

## 9.2.1.6 Cause

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>Cause group</i>				
> <i>Radio Network Layer</i>				
>Radio Network Layer Cause	M		Enumerated (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, Priority transport channel established,SIB Origination in Node B not Supported, <u>Measurement Temporarily not Available</u> , Unspecified)	
> <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)	

9.2.1.x Measurement Availability Indicator

Indicates if measurement is available or not.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Measurement Availability Indicator</u>			<u>ENUMERATED(measurement available, measurement not available )</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
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CellParameterID,
    CFN,
    CFNOffset,
    ChipOffset,
    C-ID,
    CommonChannelsCapacityConsumptionLaw,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    CompressedModeMethod,
    ConfigurationGenerationID,
    CriticalityDiagnostics,
    CRNC-CommunicationContextID,
    DCH-CombinationInd,
    DCH-ID,
    DedicatedMeasurementObjectType,
    DedicatedChannelsCapacityConsumptionLaw,
    DedicatedMeasurementType,
    DedicatedMeasurementValue,
```

D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-FrameType,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-ScramblingCode,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FrameHandlingPriority,  
FrameOffset,  
GapPeriod,  
GapPositionMode,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NodeB-CommunicationContextID,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PD,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerControlMode,  
PowerOffset,  
PowerResumeMode,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,

PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
ScaledMaxAdjustmentPeriod,  
ScaledMaxAdjustmentStep,  
ScramblingCodeChange,  
ScramblingCodeWordNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-DeletionIndicator,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TGD,  
TGL,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,  
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
UARFCN,  
UL-CapacityCredit,

```
UL-DL-CompressedModeSelection,
UL-DeltaSIR,
UL-DeltaSIR-after,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
USCH-ID
FROM NBAP-IEs

PrivateIE-Container{ },
ProtocolExtensionContainer{ },
ProtocolIE-Container{ },
ProtocolIE-ContainerList{ },
NBAP-PRIVATE-IES,
NBAP-PROTOCOL-IES,
NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers

id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersList-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRLItem-Set-DM-Rprt,
id-AllRLItem-Set-DM-Rsp,
id-BCH-InformationItem-AuditRsp,
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-Case1Item-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
id-C-ID,
id-CombiningItem-RL-AdditionFailureFDD,
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rqst,
```

id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommonTransportChannelType-CTCH-SetupRsp,  
id-CommunicationControlPortID,  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-ConfigurationGenerationID,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCH-AddListIE-RL-ReconfReady,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-InformationList-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseItem-RL-SetupRspTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DCH-ModifyListIE-RL-ReconfReady,  
id-DCH-ModifyListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DedicatedMeasurementObjectType,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,



id-DLReferencePowerList-DL-PC-Rqst,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCH-AddList-RL-ReconfPrepFDD,  
id-DSCH-AddList-RL-ReconfRqstFDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfRqstFDD,  
id-DSCH-ID,  
id-DSCH-information-AddList-RL-ReconfPrepTDD,  
id-DSCH-Information-AddList-RL-ReconfRqstTDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD,  
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,  
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,  
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstFDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyListIE-RL-ReconfReady,  
id-DSCH-ModifyListIE-RL-ReconfRsp,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfRqstFDD,  
id-DSCH-SetupListIE-RL-ReconfReady,  
id-DSCH-SetupListIE-RL-ReconfRsp,  
id-FACH-InformationItem-AuditRsp,  
id-FACH-InformationItem-ResourceStatusInd,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstFDD,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-Local-Cell-ID,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-MaxAdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementAvailableItem-CommonMeasurementReport,  
id-MeasurementnotAvailableItem-CommonMeasurementReport,  
id-MeasurementAvailableItem-DedicatedMeasurementReport,  
id-MeasurementnotAvailableItem-DedicatedMeasurementReport,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst,

id-NodeBInformation-AuditRep,

.

.

.

```

-- *****
--
-- COMMON MEASUREMENT REPORT
--
-- *****

CommonMeasurementReport ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonMeasurementReport-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}} OPTIONAL,
    ...
}

CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-MeasurementID          CRITICALITY ignore          TYPE      MeasurementID          PRESENCE mandatory }|
    { ID      id-CommonMeasurementObjectType-CM-Rprt CRITICALITY ignore          TYPE      CommonMeasurementObjectType-CM-Rprt PRESENCE mandatory }|
    }|
    { ID      id-SFN                    CRITICALITY ignore          TYPE      SFN                    PRESENCE optional },
    ...
}

CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
    cell                Cell-CM-Rprt,
    rACH                RACH-CM-Rprt,
    ...
}

Cell-CM-Rprt ::= ProtocolIE-Container {{ CellIE-CM-Rprt }}

CellIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-CellItem-CM-Rprt CRITICALITY ignore TYPE CellItem-CM-Rprt PRESENCE mandatory },
    ...
}

CellItem-CM-Rprt ::= SEQUENCE {
commonMeasurementValue CommonMeasurementValue,
measurementAvailabilityIndicator MeasurementAvailabilityIndicator-CommonMeasurementReport,
    iE-Extensions      ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }} OPTIONAL,
    ...
}

CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-CM-Rprt ::= ProtocolIE-Container {{ RACHIE-CM-Rprt }}

```

```
RACHIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
  { ID id-RACHItem-CM-Rprt CRITICALITY ignore TYPE RACHItem-CM-Rprt PRESENCE mandatory },
  ...
}
```

```
RACHItem-CM-Rprt ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue,
  measurementAvailabilityIndicator MeasurementAvailabilityIndicator-CommonMeasurementReport,
  ie-Extensions ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }} OPTIONAL,
  ...
}
```

```
RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
MeasurementAvailabilityIndicatorItem-CommonMeasurementReport ::= CHOICE {
  measurementAvailable MeasurementAvailable-CommonMeasurementReport,
  measurementnotAvailable MeasurementnotAvailable-CommonMeasurementReport,
  ...
}
```

```
MeasurementAvailable-CommonMeasurementReport ::= ProtocolIE-Container {{ MeasurementAvailableIE-CommonMeasurementReport }}
```

```
MeasurementAvailableIE-CommonMeasurementReport NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementAvailableItem-CommonMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-CommonMeasurementReport PRESENCE mandatory },
  ...
}
```

```
MeasurementAvailableItem-CommonMeasurementReport ::= SEQUENCE {
  CommonmeasurementValue CommonMeasurementValue,
  ie-Extensions ProtocolExtensionContainer { { MeasurementAvailableItem-CommonMeasurementReport-ExtIEs } } OPTIONAL,
  ...
}
```

```
MeasurementAvailableItem-CommonMeasurementReport-ExtIEs NBAP-PRTOCOL-EXTENSIONS ::= {
  ...
}
```

```
MeasurementnotAvailable-CommonMeasurementReport ::= ProtocolIE-Container {{ MeasurementnotAvailableIE-CommonMeasurementReport }}
```

```
MeasurementnotAvailableIE-CommonMeasurementReport NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementnotAvailableItem-CommonMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-CommonMeasurementReport PRESENCE mandatory },
  ...
}
```

```
MeasurementnotAvailableItem-CommonMeasurementReport ::= NULL
```

```

-- *****
--
-- DEDICATED MEASUREMENT REPORT
--
-- *****

DedicatedMeasurementReport ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{DedicatedMeasurementReport-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}} OPTIONAL,
    ...
}

DedicatedMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY ignore      TYPE CRNC-CommunicationContextID          PRESENCE
      mandatory } |
    { ID      id-MeasurementID                       CRITICALITY ignore      TYPE MeasurementID                    PRESENCE
      mandatory } |
    { ID      id-DedicatedMeasurementObjectType-DM-Rprt CRITICALITY ignore      TYPE DedicatedMeasurementObjectType-DM-Rprt PRESENCE
      mandatory } |
    { ID      id-CFN                                  CRITICALITY ignore      TYPE CFN                                PRESENCE
      optional },
    ...
}

DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
    rL                RL-DM-Rprt,
    rLS               RL-Set-DM-Rprt,
    all-RL            RL-DM-Rprt,
    all-RLS           RL-Set-DM-Rprt,
    ...
}

RL-DM-Rprt ::= ProtocolIE-Container {{ RLIE-DM-Rprt }}

RLIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rprt  CRITICALITY ignore      TYPE RLItem-DM-Rprt      PRESENCE mandatory },
    ...
}

RLItem-DM-Rprt ::= SEQUENCE {
    rL-InformationList-DM-Rprt      RL-InformationList-DM-Rprt,
    iE-Extensions                   ProtocolExtensionContainer { { RLItem-DM-Rprt-ExtIEs } } OPTIONAL,
    ...
}

RLItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

AllRL-DM-Rprt ::= ProtocolIE-Container {{ AllRLIE-DM-Rprt }}

AllRLIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
  { ID id-AllRLItem-DM-Rprt   CRITICALITY ignore   TYPE AllRLItem-DM-Rprt   PRESENCE mandatory },
  ...
}

AllRLItem-DM-Rprt ::= SEQUENCE {
  rL-InformationList-DM-Rprt      RL-InformationList-DM-Rprt,
  iE-Extensions                   ProtocolExtensionContainer { { AllRLItem-DM-Rprt-ExtIEs } }   OPTIONAL,
  ...
}

AllRLItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-DM-Rprt }}

RL-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-DM-Rprt   CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt   PRESENCE mandatory },
  ...
}

RL-InformationItem-DM-Rprt ::= SEQUENCE {
  rL-ID                           RL-ID,
  dPCH-ID                          DPCH-ID   OPTIONAL,
  dedicatedMeasurementValue DedicatedMeasurementValue,
  measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
  iE-Extensions                   ProtocolExtensionContainer { { RL-InformationItem-DM-Rprt-ExtIEs } }   OPTIONAL,
  ...
}

RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-DM-Rprt ::= ProtocolIE-Container {{ RL-SetIE-DM-Rprt }}

RL-SetIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
  { ID id-RL-SetItem-DM-Rprt   CRITICALITY ignore   TYPE RL-SetItem-DM-Rprt   PRESENCE mandatory },
  ...
}

RL-SetItem-DM-Rprt ::= SEQUENCE {
  rL-Set-InformationList-DM-Rprt    RL-Set-InformationList-DM-Rprt,
  iE-Extensions                   ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } }   OPTIONAL,
  ...
}

RL-SetItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

AllRL-Set-DM-Rprt ::= ProtocolIE-Container {{ AllRLIE-Set-DM-Rprt }}

AllRLIE-Set-DM-Rprt NBAP-PROTOCOL-IES ::= {
  { ID id-AllRLItem-Set-DM-Rprt CRITICALITY ignore TYPE AllRLItem-Set-DM-Rprt PRESENCE mandatory },
  ...
}

AllRLItem-Set-DM-Rprt ::= SEQUENCE {
  rL-Set-InformationList-DM-Rprt RL-Set-InformationList-DM-Rprt,
  iE-Extensions ProtocolExtensionContainer { { AllRLItem-Set-DM-Rprt-ExtIEs } } OPTIONAL,
  ...
}

AllRLItem-Set-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Container {{ RL-Set-InformationItemIE-DM-Rprt }}

RL-Set-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt PRESENCE mandatory },
  ...
}

RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
  rL-Set-ID RL-Set-ID,
  dedicatedMeasurementValue DedicatedMeasurementValue,
  measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
  iE-Extensions ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
  ...
}

MeasurementAvailabilityIndicatorItem-DedicatedMeasurementReport ::= CHOICE {
  measurementAvailable MeasurementAvailable-DedicatedMeasurementReport,
  measurementnotAvailable MeasurementnotAvailable-DedicatedMeasurementReport,
  ...
}

MeasurementAvailable-DedicatedMeasurementReport ::= ProtocolIE-Container { { MeasurementAvailableIE-DedicatedMeasurementReport } }

MeasurementAvailableIE-DedicatedMeasurementReport NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-DedicatedMeasurementReport
  PRECENCE mandatory},
  ...
}

MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE {
  dedicatedmeasurementValue DedicatedMeasurementValue,
  ie-Extensions ProtocolExtensionContainer { { MeasurementAvailableItem-DedicatedMeasurementReport-ExtIEs} } OPTIONAL,
  ...
}

```

```
MeasurementAvailableItem-DedicatedMeasurementReport-ExtIEs NBAP-PRTOCOL-EXTENSIONS ::= {  
    ...  
}  
MeasurementnotAvailable-DedicatedMeasurementReport ::= ProtocolIE-Container {{ MeasurementnotAvailableIE-DedicatedMeasurementReport }}  
MeasurementnotAvailableIE-DedicatedMeasurementReport NBAP-PROTOCOL-IES ::= {  
    { ID id-MeasurementnotAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-DedicatedMeasurementReport  
      PRECENCE mandatory},  
    ...  
}  
MeasurementnotAvailableItem-DedicatedMeasurementReport ::= NULL  
RL-Set-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```





## 9.3.4 NBAP Information Elements

```
-- =====  
-- C  
-- =====  
  
Cause ::= CHOICE {  
    radioNetwork          CauseRadioNetwork,  
    transport             CauseTransport,  
    protocol              CauseProtocol,  
    misc                  CauseMisc,  
    ...  
}  
  
CauseMisc ::= ENUMERATED {  
    control-processing-overload,  
    hardware-failure,  
    oam-intervention,  
    not-enough-user-plane-processing-resources,  
    unspecified,  
    ...  
}  
  
CauseProtocol ::= ENUMERATED {  
    transaction-not-allowed,  
    transfer-syntax-error,  
    abstract-syntax-error-reject,  
    abstract-syntax-error-ignore-and-notify,  
    message-not-compatible-with-receiver-state,  
    semantic-error,  
    unspecified,  
    ...  
}  
  
CauseRadioNetwork ::= ENUMERATED {  
    unknown-C-ID,  
    cell-not-available,  
    power-level-not-supported,  
    ul-scramblingcode-already-in-use,  
    dl-radio-resources-not-available,  
    ul-radio-resources-not-available,  
    rl-already-ActivatedOrAlocated,  
    nodeB-Resources-unavailable,  
    insufficient-physical-channel-resources,  
    measurement-not-supported-for-the-object,  
    macrodiversity-combining-not-possible,  
    reconfiguration-not-allowed,  
    requested-configuration-not-supported,  
    synchronisation-failure,  
    sIB-Origination-in-Node-B-not-Supported,  
    unspecified,  
}
```

```

    priority-transport-channel-established,
    measurement-temporarily-not-available,
    ...
}

CauseTransport ::= ENUMERATED {
    transport-link-failure,
    transmission-port-not-available,
    transport-resource-unavailable,
    unspecified,
    ...
}

-- =====
-- M
-- =====

MaximumDL-PowerCapability ::= INTEGER(0..50)
-- Unit dBm, Range 0dBm .. 50dBm, Step +1dB

MaximumTransmissionPower ::= INTEGER(0..50)
-- Unit dB, Range 0dB .. 50dB, Step +1dB

MaxNrOfUL-DPDCHs ::= INTEGER (1..6)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

MeasurementAvailabilityIndicator ::= ENUMERATED(
measurementAvailable,
measurementnotAvailable
)

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- Measurement Filter Coefficient to be used for measurement

MeasurementID ::= INTEGER (0..1048575)

MidambleShift ::= INTEGER (0..15)

MinSpreadingFactor ::= ENUMERATED {
    v4,
    v16,
    v32,
    v64,
    v128,
    v256,
    v512,
    ...
}

```

```
MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
}

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible,
    ...
}

-- =====
-- N
-- =====

NodeB-CommunicationContextID ::= INTEGER (0..1048575)
    .
    .
    .
```

### 9.3.7 Constant Definitions for NBAP

```

-- *****
--
-- Constant definitions
--
-- *****

NBAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-audit                               INTEGER ::= 0
id-auditRequired                       INTEGER ::= 1
id-blockResource                       INTEGER ::= 2
id-cellDeletion                       INTEGER ::= 3
id-cellReconfiguration                INTEGER ::= 4
id-cellSetup                           INTEGER ::= 5
id-commonMeasurementFailure           INTEGER ::= 6
id-commonMeasurementInitiation        INTEGER ::= 7
id-commonMeasurementReport            INTEGER ::= 8
id-commonMeasurementTermination       INTEGER ::= 9
id-commonTransportChannelDelete       INTEGER ::= 10
id-commonTransportChannelReconfigure  INTEGER ::= 11
id-commonTransportChannelSetup        INTEGER ::= 12
id-compressedModeCancellation         INTEGER ::= 13
id-compressedModeCommit               INTEGER ::= 14
id-compressedModePreparation          INTEGER ::= 15
id-dedicatedMeasurementFailure        INTEGER ::= 16
id-dedicatedMeasurementInitiation     INTEGER ::= 17
id-dedicatedMeasurementReport         INTEGER ::= 18
id-dedicatedMeasurementTermination    INTEGER ::= 19
id-downlinkPowerControl               INTEGER ::= 20
id-errorIndication                    INTEGER ::= 21
id-physicalSharedChannelReconfiguration INTEGER ::= 37
id-privateMessage                     INTEGER ::= 22
id-radioLinkAddition                  INTEGER ::= 23
id-radioLinkDeletion                  INTEGER ::= 24
id-radioLinkFailure                   INTEGER ::= 25
id-radioLinkRestoration               INTEGER ::= 26
id-radioLinkSetup                     INTEGER ::= 27

```

```
id-resourceStatusIndication          INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation  INTEGER ::= 29
id-synchronisedRadioLinkReconfigurationCommit       INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation  INTEGER ::= 31
id-systemInformationUpdate            INTEGER ::= 32
id-unblockResource                    INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration          INTEGER ::= 34
```

```
-- *****
```

```
--
```

```
-- Extension constants
```

```
--
```

```
-- *****
```

```
maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs        INTEGER ::= 65535
```

```
-- *****
```

```
--
```

```
-- Lists
```

```
--
```

```
-- *****
```

```
maxNrOfCodes          INTEGER ::= 10
maxNrOfCMPatterns     INTEGER ::= 8
maxNrOfDLCodes        INTEGER ::= 10
maxNrOfErrors         INTEGER ::= 10
maxNrOfTFCs           INTEGER ::= 10
maxNrOfTFCs           INTEGER ::= 10
maxNrOfRFLs           INTEGER ::= 10
maxNrOfRFLSets        INTEGER ::= 10
maxNrOfDPCHs          INTEGER ::= 10
maxNrOfSCCPCHs        INTEGER ::= 10
maxNrOfPRACHs         INTEGER ::= 10
maxNrOfDCHs           INTEGER ::= 10
maxNrOfDSCHs          INTEGER ::= 10
maxNrOfFACHs          INTEGER ::= 10
maxNrOfCCTrCHs        INTEGER ::= 10
maxNrOfPDSCHs         INTEGER ::= 10
maxNrOfPUSCHs         INTEGER ::= 10
maxNrOfPDSCHSets      INTEGER ::= 10
maxNrOfPUSCHSets      INTEGER ::= 10
maxNrOfULTSs          INTEGER ::= 15
maxNrOfUSCHs          INTEGER ::= 10
maxSF                  INTEGER ::= 10
maxCellInNodeB        INTEGER ::= 10
maxCCPinNodeB         INTEGER ::= 10
maxCTFC-1             INTEGER ::= 10
maxLocalCellInNodeB  INTEGER ::= 10
maxRACHCell           INTEGER ::= 10
maxPRACHCell          INTEGER ::= 10
```

```

maxSCCPCHCell          INTEGER ::= 10
maxSCPICHCell          INTEGER ::= 10
maxTTI-count           INTEGER ::= 10
maxIBSEG               INTEGER ::= 10
maxIB                  INTEGER ::= 10
maxFACHCell            INTEGER ::= 10
maxRateMatching        INTEGER ::= 10
maxCodeNrComp-1       INTEGER ::= 10
maxNrOfCodeGroups      INTEGER ::= 10
maxNrOfTFCIGroups      INTEGER ::= 10
maxNrOfTFCI1Combs      INTEGER ::= 10
maxNrOfTFCI2Combs      INTEGER ::= 10
maxCTFC-DCH-1          INTEGER ::= 10
maxCTFC-DSCH-1         INTEGER ::= 10
maxNrOfSF              INTEGER ::= 8
    
```

```

-- *****
--
-- IEs
--
-- *****
    
```

```

id-AICH-InformationItem-AuditRsp          INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd  INTEGER ::= 1
id-AICH-ParametersList-CTCH-ReconfRqstFDD  INTEGER ::= 2
id-AllRLItem-DM-Rprt                      INTEGER ::= 3
id-AllRLItem-DM-Rsp                        INTEGER ::= 4
id-AllRLItem-Set-DM-Rprt                   INTEGER ::= 5
id-AllRLItem-Set-DM-Rsp                     INTEGER ::= 6
id-BCH-InformationItem-AuditRsp            INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd    INTEGER ::= 8
id-BCCH-ModificationTime                   INTEGER ::= 9
id-BlockingPriorityIndicator                INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD             INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD             INTEGER ::= 12
id-Cause                                    INTEGER ::= 13
id-CCP-InformationItem-AuditRsp            INTEGER ::= 14
id-CCP-InformationList-AuditRsp            INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd    INTEGER ::= 16
id-Cell-InformationItem-AuditRsp           INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd   INTEGER ::= 18
id-Cell-InformationList-AuditRsp           INTEGER ::= 19
id-CellItem-CM-Rprt                        INTEGER ::= 20
id-CellItem-CM-Rqst                         INTEGER ::= 21
id-CellItem-CM-Rsp                          INTEGER ::= 22
id-CellParameterID                          INTEGER ::= 23
id-CFN                                       INTEGER ::= 24
id-C-ID                                      INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD     INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD         INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD         INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD        INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD            INTEGER ::= 30
    
```

id-CommonMeasurementObjectType-CM-Rprt	INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst	INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp	INTEGER ::= 33
id-CommonMeasurementType	INTEGER ::= 34
id-CommonPhysicalChannelID	INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
id-CommonTransportChannelType-CTCH-SetupRsp	INTEGER ::= 39
id-CommunicationControlPortID	INTEGER ::= 40
id-CM-PatternInformationItem-CompressedModePrep	INTEGER ::= 41
id-CM-PatternInformationList-CompressedModePrep	INTEGER ::= 42
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddListIE-RL-ReconfReady	INTEGER ::= 46
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 47
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 60
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 61
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType	INTEGER ::= 66
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 71
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 74
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 75
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-InformationListIE-RL-ReconfPrepTDD	INTEGER ::= 80
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83



id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyListIE-RL-ReconfReady	INTEGER ::= 110
id-DSCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 111
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-DSCH-SetupListIE-RL-ReconfReady	INTEGER ::= 114
id-DSCH-SetupListIE-RL-ReconfRsp	INTEGER ::= 115
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 119
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-MaxAdjustmentPeriod	INTEGER ::= 129
id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
<u>id-MeasurementAvailableItem-CommonMeasurementReport</u>	<u>INTEGER ::= xxx</u>
<u>id-MeasurementnotAvailableItem-CommonMeasurementReport</u>	<u>INTEGER ::= xxx</u>
<u>id-MeasurementAvailableItem-DedicatedMeasurementReport</u>	<u>INTEGER ::= xxx</u>
<u>id-MeasurementnotAvailableItem-DedicatedMeasurementReport</u>	<u>INTEGER ::= xxx</u>
id-MeasurementFilterCoefficient	INTEGER ::= 132

**3G TS 25.433 version 3.1.0 Release 1999**

id-MeasurementID  
id-MIB-SIB-InformationList-SystemInfoUpdateRqst  
id-NodeBInformation-AuditRep

.

.

.

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INTEGER ::= 133  
INTEGER ::= 134  
INTEGER ::= 135



<b>NEXT MODIFIED SECTION</b>
------------------------------

## 9.3 Message and Information element abstract syntax (with ASN.1)

### 9.3.0 General

Section 9.3 ~~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.

The ASN.1 definition specifies the structure and content of NBAP messages. NBAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a NBAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a NBAP message that is not constructed as defined above is received, this shall be considered as **Abstract Syntax Logical Error**, and the message shall be handled as defined for **Abstract Syntax Error** in section 10.4.

### 9.3.1 Usage of Private Message mechanism for non-standard use

## 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 156r2**

Current Version: **3.1.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8** 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:** R-WG3 **Date:** May 22, 2000

**Subject:** Power offset for S-CCPCH

**Work item:** 18.5 (g)

<p><b>Category:</b></p> <p style="font-size: x-small;">(only one category shall be marked with an X)</p>	<p>F Correction <input type="checkbox"/></p> <p>A Corresponds to a correction in an earlier release <input type="checkbox"/></p> <p>B Addition of feature <input checked="" type="checkbox"/></p> <p>C Functional modification of feature <input type="checkbox"/></p> <p>D Editorial modification <input type="checkbox"/></p>	<p><b>Release:</b></p> <p>Phase 2 <input type="checkbox"/></p> <p>Release 96 <input type="checkbox"/></p> <p>Release 97 <input type="checkbox"/></p> <p>Release 98 <input type="checkbox"/></p> <p>Release 99 <input checked="" type="checkbox"/></p> <p>Release 00 <input type="checkbox"/></p>
--	---	--

**Reason for change:**

In the current R3 specifications, Three Power Offset (PO) values are define, namely PO1 (PO for the TFCI bits), PO2 (PO for the TPC bits), and PO3 (PO for pilot bits). These values belong to DL DPCH information, and are allocated when a new DL DPCH is established.

In R1, these PO values are not only defined for DL DPCH but also for S-CCPCH as in TS25.214 chapter 5.2.5.

This CR proposes to introduce PO values to S-CCPCH attributes in R3 specification.

It must be noted that there is no PO2 value (PO for the TPC bits) needed for S-CCPCH.

**Clauses affected:**

9.1.2.1 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.2.2.21 Power Offset

9.3.3. NBAP PDU Contents Definitions

<p><b>Other specs affected:</b></p>	<p>Other 3G core specifications <input type="checkbox"/></p> <p>Other GSM core specifications <input type="checkbox"/></p> <p>MS test specifications <input type="checkbox"/></p> <p>BSS test specifications <input type="checkbox"/></p> <p>O&amp;M specifications <input type="checkbox"/></p>	<p>→ List of CRs: <input type="text"/></p> <p>→ List of CRs: <input type="text"/></p> <p>→ List of CRs: <input type="text"/></p> <p>→ List of CRs: <input type="text"/></p> <p>→ List of CRs: <input type="text"/></p>
-------------------------------------	--	--

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

## 9.1.2 COMMON TRANSPORT CHANNEL SETUP REQUEST

## 9.1.2.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
C-ID	M				YES	reject
Configuration Generation ID	M				YES	reject
<b>CHOICE common physical channel to be configured</b>					YES	ignore
>Secondary CCPCH					YES	reject
<b>&gt;Secondary CCPCH</b>		1				
>>Common Physical Channel ID	M				–	
>>FDD S-CCPCH Offset	M			Corresponds to 25.211: S-CCPCH,k	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>>TFCI Presence	C - SlotFormat				–	
>>Multiplexing Position	M				–	
<b>&gt;&gt;Power Offset Information</b>		1			=	
>>>PO1	M		Power Offset	Power offset for the TFCI bits	=	
>>>PO3	M		Power Offset	Power offset for the pilot bits	=	
>>STTD Indicator	M				–	
<b>&gt;&gt;FACH Parameters</b>	C-choiceCh	0..<maxnoofFACHs>			GLOBAL	reject
>>>Common transport channel ID	M				–	
>>>Transport Format Set	M			For the DL.	–	
>>>ToAWS	M				–	
>>>ToAWE	M				–	
>>>Max FACH Power	M		DL Power	Maximum allowed power on the FACH.	–	
<b>&gt;&gt;PCH Parameters</b>	C-choiceCh	0..1			YES	reject
>>>Common Transport Channel ID	M				–	
>>>Transport Format Set	M			For the DL.	–	
>>>ToAWS	M				–	

>>>ToAWE	M					–	
>>>PCH Power	M		DL Power			–	
<b>&gt;&gt;&gt;PICH Parameters</b>		1				–	
>>>>Common Physical Channel ID	M					–	
>>>>DL Scrambling Code	M					–	
>>>>FDD DL Channelisation Code Number	M					–	
>>>>PICH Power	M		DL Power	Power to be used on the PICH.		–	
>>>>PICH Mode	M			Number of PI per frame		–	
>>>>STTD Indicator	M					–	
>PRACH						YES	reject
<b>&gt;PRACH</b>		1					
>>Common Physical Channel ID	M					–	
>>Scrambling Code Word Number	M					–	
>>TFCS	M			For the UL.		–	
>>Preamble Signatures	M					–	
<b>&gt;&gt;Allowed Slot Format Information</b>		1..<maxSF>				–	
>>>RACH Slot Format	M					–	
>RACH Sub Channel Numbers	M					–	
>Puncture Limit	M			For the UL		–	
>Preamble threshold	M					–	
<b>&gt;&gt;RACH Parameters</b>		1				YES	reject
>>>Common Transport Channel ID	M					–	
>>>Transport Format Set	M			For the UL.		–	
<b>&gt;&gt;&gt;AICH Parameters</b>		1				–	
>>>>Common Physical Channel ID	M					–	
>>>>DL Scrambling Code	M					–	
>>>>AICH Transmission Timing	M					–	
>>>>FDD DL Channelisation Code Number	M					–	
>>>>AICH Power	M		DL Power			–	
>>>>STTD Indicator	M					–	

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
ChoiceCh	One of the channels FACH or PCH or both must be present.



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

### 9.2.2.21 Power Offset

This IE defines a power offset [relative to respect](#) the Downlink transmission power of a DPCH [or a Secondary CCPCH](#).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Offset			INTEGER (0...24)	Step 0.25 dB, range 0-6 dB

## 9.3.3 NBAP PDU Content Definitions

### --- PARTLY OMITTED ---

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD,
--
-- *****

CommonTransportChannelSetupRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelSetupRequestFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CommonTransportChannelSetupRequestFDD-
Extensions}}    OPTIONAL,
    ...
}

CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
ID      { ID      id-C-ID                                PRESENCE      mandatory }|
        { ID      id-ConfigurationGenerationID          PRESENCE      mandatory }|
        { ID      id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  CRITICALITY  ignore      TYPE
CommonPhysicalChannelType-CTCH-SetupRqstFDD  PRESENCE      mandatory },
    ...
}

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters  Secondary-CCPCH-CTCH-SetupRqstFDD,
    pRACH-parameters            PRACH-CTCH-SetupRqstFDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHIE-CTCH-SetupRqstFDD
}}

Secondary-CCPCHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHItem-CTCH-SetupRqstFDD  CRITICALITY reject  TYPE Secondary-CCPCHItem-
CTCH-SetupRqstFDD  PRESENCE mandatory },
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset           FDD-S-CCPCH-Offset,
    dl-ScramblingCode            DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    tFCS                          TFCS,
    secondary-CCPCH-SlotFormat    SecondaryCCPCH-SlotFormat,
    tFCI-Presence                 TFCI-Presence    OPTIONAL,
}

```

```

-- This IE is present only if the Secondary CCPCH Slot Format is equal to any value 8 to 17
multiplexingPosition MultiplexingPosition,
powerOffsetInformation PowerOffsetInformation-CTCH-SetupRqstFDD,
sTTD-Indicator sTTD-Indicator,
fACH-Parameters fACH-ParametersList-CTCH-SetupRqstFDD OPTIONAL,
-- One of the channels FACH or PCH or both must be present
pCH-Parameters pCH-Parameters-CTCH-SetupRqstFDD OPTIONAL,
-- One of the channels FACH or PCH or both must be present
iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCHItem-
CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
pO1-ForTFCI-Bits PowerOffset,
pO3-ForPilotBits PowerOffset,
iE-Extensions ProtocolExtensionContainer { { PowerOffsetInformation-
RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ FACH-ParametersListIEs-CTCH-
SetupRqstFDD }}

FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD CRITICALITY reject TYPE FACH-
ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory },
...
}

FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-
ParametersItem-CTCH-SetupRqstFDD

FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
transportFormatSet TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE,
maxFACH-Power DL-Power,
iE-Extensions ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-
SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}

PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-
CTCH-SetupRqstFDD PRESENCE mandatory },
...
}

PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
transportFormatSet TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE,
pCH-Power DL-Power,-- R3-000655, CR24r1
pICH-Parameters PICH-Parameters-CTCH-SetupRqstFDD,

iE-Extensions ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-
SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
dl-ScramblingCode DL-ScramblingCode,
fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,

```

```

    pICH-Power
    pICH-Mode
    sTTD-Indicator
    iE-Extensions
CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PRACHIE-CTCH-SetupRqstFDD }}

PRACHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACHItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE PRACHItem-CTCH-SetupRqstFDD
      PRESENCE mandatory },
    ...
}

PRACHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    scramblingCodeWordNumber         ScramblingCodeWordNumber,
    tFCS                              TFCS,
    preambleSignatures               PreambleSignatures,
    allowedSlotFormatInformationList-CTCH-SetupRqstFDD,
    rACH-SubChannelNumbers           RACH-SubChannelNumbers,
    ul-punctureLimit                 PunctureLimit,
    preambleThreshold                 PreambleThreshold,
    rACH-Parameters                  RACH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                    ProtocolExtensionContainer { { PRACHItem-CTCH-
SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSF)) OF
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    rACHSlotFormat                    RACH-SlotFormat,
    iE-Extensions                    ProtocolExtensionContainer { {
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD
}}

RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE RACH-ParametersItem-
CTCH-SetupRqstFDD    PRESENCE mandatory },
    ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    transportFormatSet                TransportFormatSet,
    aICH-Parameters                   AICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                    ProtocolExtensionContainer { { RACH-
ParametersItem-CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    dl-ScramblingCode                DL-ScramblingCode,
    aICH-TransmissionTiming           AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber   FDD-DL-ChannelisationCodeNumber,
    aICH-Power                        DL-Power,
    sTTD-Indicator                    STTD-Indicator,
    iE-Extensions                    ProtocolExtensionContainer { { AICH-Parameters-
CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

```

```
AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

**--- PARTLY OMITTED ---**

## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433 CR 162**

Current Version: **3.1.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **RAN#8**  
list expected approval meeting # here ↑

For approval for information

strategic   
non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** May 2000

**Subject:** Correction of inconsistency Sync channel definition for TDD

**Work item:**

**Category:** F Correction   
A Corresponds to a correction in an earlier release   
B Addition of feature   
C Functional modification of feature   
D Editorial modification   
(only one category shall be marked with an X)

**Release:** Phase 2   
Release 96   
Release 97   
Release 98   
Release 99   
Release 00

**Reason for change:** This CR corrects the SCH Information within the Audit Response and Resource Status Indication procedures. In both procedures the Common Physical Channel ID has to be indicated instead the Common Transport Channel ID.

**Clauses affected:** 9.1.16, 9.1.31, 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.

## 9.1.16 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	reject
Transaction ID	M				–	
<b>Node B Information</b>		1				
>DL or Global Capacity Credit	M					
>UL Capacity Credit	O					
>Common Channels Capacity Consumption Law	M					
>Dedicated Channels Capacity Consumption Law	M					
<b>Cell Information</b>		0.. < maxCellin NodeB >			EACH	ignore
>C-ID	M				–	
>Configuration Generation ID	M					
>Resource Operational State	M				–	
>Availability Status	M				–	
>Local Cell ID	M			The local cell that the cell is configured on		
>Maximum DL Power Capability	FFS				–	
>Minimum Spreading Factor	FFS				–	
<b>&gt;Primary SCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;Secondary SCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;Primary CPICH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;Secondary CPICH Information</b>		0..<maxSC PICHCell>			EACH	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	

>>Availability Status	M				–	
<b>&gt;Primary CCPCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;BCH Information</b>		0..1			YES	ignore
>>Common Transport Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;Secondary CCPCH Information</b>		0..<maxSC CPCHCell >			EACH	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;PCH Information</b>		0..1			EACH	ignore
>>Common Transport Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;PICH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;FACH Information</b>		0..<maxFA CHCell>			EACH	ignore
>>Common Transport Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;PRACH Information</b>		0..<maxPR ACHCell>			EACH	ignore
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;RACH Information</b>		0..<maxRA CHCell>			EACH	ignore
>>Common Transport Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;AICH Information</b>		0..<maxRA CHCell>			EACH	ignore
>>Common Physical Channel ID	M				–	

>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;SCH Information</b>		0..1			YES	ignore
>>Common Physical Transport Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>Communication Control Port Information</b>		0.. <maxCCPi nNodeB>			EACH	ignore
>Communication Control Port ID	M				–	
>Resource Operational State	M				–	
>Availability Status	M				–	
<b>Local Cell Information</b>		0.. <maxLocal CellinNode B>			EACH	ignore
>Local Cell ID	M				–	
>DL or Global Capacity Credit	M					
>UL Capacity Credit	O					
>Common Channels Capacity Consumption Law	M					
>Dedicated Channels Capacity Consumption Law	M					
>Maximum DL Power Capability	O				–	
Criticality diagnostics	O				YES	ignore

Range bound	Explanation
maxCellinNodeB	Maximum number of Cell that can be configured in Node B
maxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
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



## 9.1.31 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M				–	
Message Type	M				YES	ignore
Transaction ID	M				–	
Indication Type	M				YES	ignore
CHOICE Indication Type					YES	ignore
>"No Failure"					YES	ignore
<b>&gt;&gt;Node B Information</b>		1				
>>>DL or Global Capacity Credit	M					
>>>UL Capacity Credit	O					
>>>Common Channels Capacity Consumption Law	M					
>>>Dedicated Channels Capacity Consumption Law	M					
<b>&gt;&gt;Local Cell Information</b>		1.. <max LocalCellin NodeB >			EACH	ignore
>>>Local Cell ID	M				–	
>>>Add/Delete Indicator	M				–	
>>>DL or Global Capacity Credit	C-add					
>>>UL Capacity Credit	O					
>>>Common Channels Capacity Consumption Law	C-add					
>>>Dedicated Channels Capacity Consumption Law	C-add					
>>>Maximum DL Power Capability	M				–	
>"Service Impacting"					YES	ignore
<b>&gt;&gt;Node B Information</b>		0..1				
>>>DL or Global Capacity Credit	O					
>>>UL Capacity Credit	O					
<b>&gt;&gt;Local Cell Information</b>		0.. <maxLocal CellinNode B>			EACH	ignore
>>>Local Cell ID	M				–	
DL or Global Capacity Credit	O					
UL Capacity Credit	O					
>>>Maximum DL Power Capability	O				–	
<b>&gt;&gt;Communication Control Port Information</b>		0.. <maxCCPi nNodeB>			EACH	ignore

>>>Communication Control Port ID	M				–	
>>>Resource Operational State	M				–	
>>>Availability Status	M				–	
<b>&gt;&gt;Cell Information</b>		0.. <maxCellin NodeB>			EACH	ignore
>>>C-ID	M				–	
>>>Resource Operational State	M				–	
>>>Availability Status	M				–	
>>>Maximum DL Power Capability	FFS				–	
>>>Minimum Spreading Factor	FFS				–	
<b>&gt;&gt;Primary SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M				–	
>>>Resource Operational State	M				–	
>>>Availability Status	M				–	
<b>&gt;&gt;Secondary SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M				–	
>>>Resource Operational State	M				–	
>>>Availability Status	M				–	
<b>&gt;&gt;Primary CPICH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M				–	
>>>Resource Operational State	M				–	
>>>Availability Status	M				–	
<b>&gt;&gt;Secondary CPICH Information</b>		0..<maxSC PICHCell>			EACH	ignore
>>>Common Physical Channel ID	M				–	
>>>Resource Operational State	M				–	
>>>Availability Status	M				–	
<b>&gt;&gt;Primary CCPCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M				–	
>>>Resource Operational State	M				–	
>>>Availability	M				–	

Status						
<b>&gt;&gt;BCH Information</b>		0..1			YES	ignore
>>>Common Transport Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;Secondary CCPCH Information</b>		0..<maxSC CPCHCell>			EACH	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;PCH Information</b>		0..1			EACH	ignore
>>>Common Transport Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;PICH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;FACH Information</b>		0..<maxFACHCell>			EACH	ignore
>>>Common Transport Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;PRACH Information</b>		0..<maxPRACHCell>			EACH	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;RACH Information</b>		0..<maxPRACHCell>			EACH	ignore
>>>Common Transport Channel ID	M				-	
>>>Resource Operational State	M				-	

>>>Availability Status	M				-	
>>AICH Information		0.. <maxPRA CHCell>			EACH	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
>>SCH Information		0..1			YES	ignore
>>>Common <del>Physical Transport</del> Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
Cause	O				YES	ignore

Condition	Explanation
C-add	This IE is present only if "Add/Delete Indicator" equals to add

Range bound	Explanation
<i>MaxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>MaxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>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>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
<i>MaxConsumptionLaws</i>	Maximum number of credit consumption laws.

### 9.3.3 NBAP PDU Content Definitions

....

```

-- *****
--
-- AUDIT RESPONSE
--
-- *****

AuditResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{AuditResponse-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{AuditResponse-Extensions}}
    OPTIONAL,
    ...
}

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-NodeBInformation-AuditRep CRITICALITY ignore TYPE NodeBInformation-AuditRsp PRESENCE
mandatory}}|
    { ID    id-Cell-InformationList-AuditRsp          CRITICALITY ignore TYPE
Cell-InformationList-AuditRsp PRESENCE optional }|
    { ID    id-CCP-InformationList-AuditRsp          CRITICALITY ignore TYPE CCP-
InformationList-AuditRsp PRESENCE optional }|
    -- CCP (Communication Control Port) --
    { ID    id-Local-Cell-InformationList-AuditRsp    CRITICALITY ignore TYPE
Local-Cell-InformationList-AuditRsp PRESENCE optional }|
    { ID    id-CriticalityDiagnostics                CRITICALITY ignore TYPE
CriticalityDiagnostics PRESENCE optional },
    ...
}

AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NodeBInformation-AuditRsp ::= SEQUENCE {
    dl-or-global-capacityCredit          DL-or-Global-CapacityCredit,
    ul-capacityCredit                    UL-CapacityCredit OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                        ProtocolExtensionContainer { { NodeBInformation-
AuditRep-ExtIEs} } OPTIONAL,
    ...
}

NodeBInformation-AuditRep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellInNodeB)) OF ProtocolIE-Container {{
Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID    id-Cell-InformationItem-AuditRsp          CRITICALITY ignore TYPE Cell-
InformationItem-AuditRsp PRESENCE optional },
    ...
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {
    c-ID                                C-ID,
    configurationGenerationID           ConfigurationGenerationID,
    resourceOperationalState            ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,
    local-Cell-ID                       Local-Cell-ID,
    maximumDL-PowerCapability           MaximumDL-PowerCapability,      -- to do: FFS
    minSpreadingFactor                 MinSpreadingFactor,          -- to do: FFS
    primary-SCH-Information             P-SCH-Information-AuditRsp    OPTIONAL,
    secondary-SCH-Information           S-SCH-Information-AuditRsp    OPTIONAL,
    primary-CPICH-Information           P-CPICH-Information-AuditRsp    OPTIONAL,
    secondary-CPICH-InformationList     S-CPICH-InformationList-AuditRsp OPTIONAL,
    primary-CCPCH-Information           P-CCPCH-Information-AuditRsp    OPTIONAL,
    bch-Information                     BCH-Information-AuditRsp      OPTIONAL,
    secondary-CCPCH-InformationList     S-CCPCH-InformationList-AuditRsp OPTIONAL,
    pch-Information                     PCH-Information-AuditRsp      OPTIONAL,
}

```

```

    pICH-Information                PICH-Information-AuditRsp                OPTIONAL,
    fACH-InformationList            FACH-InformationList-AuditRsp            OPTIONAL,
    pRACH-InformationList          PRACH-InformationList-AuditRsp          OPTIONAL,
    rACH-InformationList          RACH-InformationList-AuditRsp          OPTIONAL,
    aICH-InformationList          AICH-InformationList-AuditRsp          OPTIONAL,
    sCH-Information                SCH-Information-AuditRsp                OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { Cell-InformationItem-
AuditRsp-ExtIEs} }                OPTIONAL,
    ...
}

Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-SCH-InformationIE-AuditRsp }}

P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-SCH-InformationItem-AuditRsp
    PRESENCE mandatory },
    ...
}

P-SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { P-SCH-InformationItem-
AuditRsp-ExtIEs} }                OPTIONAL,
    ...
}

P-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ S-SCH-InformationIE-AuditRsp }}

S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-SCH-InformationItem-AuditRsp CRITICALITY ignore TYPE S-SCH-InformationItem-AuditRsp
    PRESENCE mandatory },
    ...
}

S-SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { S-SCH-InformationItem-
AuditRsp-ExtIEs} }                OPTIONAL,
    ...
}

S-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-CPICH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CPICH-InformationIE-AuditRsp }}

P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-InformationItem-AuditRsp CRITICALITY ignore TYPE P-CPICH-InformationItem-
AuditRsp PRESENCE mandatory },
    ...
}

P-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { P-CPICH-InformationItem-
AuditRsp-ExtIEs} }                OPTIONAL,
    ...
}

P-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{
S-CPICH-InformationItemIE-AuditRsp }}

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE S-CPICH-InformationItem-
AuditRsp  PRESENCE mandatory },
  ...
}

S-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                   ProtocolExtensionContainer { { S-CPICH-InformationItem-
AuditRsp-ExtIEs} }  OPTIONAL,
  ...
}

S-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE P-CCPCH-InformationItem-
AuditRsp  PRESENCE mandatory },
  ...
}

P-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                   ProtocolExtensionContainer { { P-CCPCH-InformationItem-
AuditRsp-ExtIEs} }  OPTIONAL,
  ...
}

P-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

BCH-Information-AuditRsp ::= ProtocolIE-Container {{ BCH-InformationIE-AuditRsp }}

BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE BCH-InformationItem-AuditRsp
PRESENCE mandatory },
  ...
}

BCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonTransportChannelID        CommonTransportChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                   ProtocolExtensionContainer { { BCH-InformationItem-
AuditRsp-ExtIEs} }  OPTIONAL,
  ...
}

BCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{
S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-InformationItem-AuditRsp  CRITICALITY ignore  TYPE S-CCPCH-InformationItem-
AuditRsp  PRESENCE mandatory },
  ...
}

S-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  resourceOperationalState         ResourceOperationalState,
  availabilityStatus               AvailabilityStatus,
  iE-Extensions                   ProtocolExtensionContainer { { S-CCPCH-InformationItem-
AuditRsp-ExtIEs} }  OPTIONAL,

```

```

}
...
}
S-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PCH-Information-AuditRsp ::= ProtocolIE-Container {{ PCH-InformationIE-AuditRsp }}
PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-InformationItem-AuditRsp CRITICALITY ignore TYPE PCH-InformationItem-AuditRsp
PRESENCE mandatory },
...
}
PCH-InformationItem-AuditRsp ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
resourceOperationalState ResourceOperationalState,
availabilityStatus AvailabilityStatus,
iE-Extensions ProtocolExtensionContainer { { PCH-InformationItem-
AuditRsp-ExtIEs} } OPTIONAL,
...
}
PCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PICH-Information-AuditRsp ::= ProtocolIE-Container {{ PICH-InformationIE-AuditRsp }}
PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-PICH-InformationItem-AuditRsp CRITICALITY ignore TYPE PICH-InformationItem-AuditRsp
PRESENCE mandatory },
...
}
PICH-InformationItem-AuditRsp ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
resourceOperationalState ResourceOperationalState,
availabilityStatus AvailabilityStatus,
iE-Extensions ProtocolExtensionContainer { { PICH-InformationItem-
AuditRsp-ExtIEs} } OPTIONAL,
...
}
PICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-
InformationItemIE-AuditRsp }}
FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-InformationItem-AuditRsp CRITICALITY ignore TYPE FACH-InformationItem-AuditRsp
PRESENCE mandatory },
...
}
FACH-InformationItem-AuditRsp ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
resourceOperationalState ResourceOperationalState,
availabilityStatus AvailabilityStatus,
iE-Extensions ProtocolExtensionContainer { { FACH-InformationItem-
AuditRsp-ExtIEs} } OPTIONAL,
...
}
FACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{
PRACH-InformationItemIE-AuditRsp }}
PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-PRACH-InformationItem-AuditRsp CRITICALITY ignore TYPE PRACH-InformationItem-AuditRsp
PRESENCE mandatory },
...
}

```



```

}

PRACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { PRACH-InformationItem-
AuditRsp-ExtIEs} }            OPTIONAL,
    ...
}

PRACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ RACH-
InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE RACH-InformationItem-AuditRsp
    PRESENCE mandatory },
    ...
}

RACH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { RACH-InformationItem-
AuditRsp-ExtIEs} }            OPTIONAL,
    ...
}

RACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ AICH-
InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE AICH-InformationItem-AuditRsp
    PRESENCE mandatory },
    ...
}

AICH-InformationItem-AuditRsp ::= SEQUENCE {
    commonPhysicalChannelID     CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { AICH-InformationItem-
AuditRsp-ExtIEs} }            OPTIONAL,
    ...
}

AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SCH-Information-AuditRsp ::= ProtocolIE-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-SCH-InformationItem-AuditRsp    CRITICALITY ignore    TYPE SCH-InformationItem-AuditRsp
    PRESENCE mandatory },
    ...
}

SCH-InformationItem-AuditRsp ::= SEQUENCE {
    commonTransportChannelIDcommonPhysicalChannelID
    CommonTransportChannelIDCommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { SCH-InformationItem-
AuditRsp-ExtIEs} }            OPTIONAL,
    ...
}

```

```

SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CCP-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-
InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  {ID id-CCP-InformationItem-AuditRsp          CRITICALITY   ignore          TYPE      CCP-
InformationItem-AuditRsp          PRESENCE      mandatory},
  ...
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
  communicationControlPortID      CommunicationControlPortID,
  resourceOperationalState        ResourceOperationalState,
  availabilityStatus              AvailabilityStatus,
  iE-Extensions                  ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-
ExtIEs }}          OPTIONAL,
  ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-
Container {{ Local-Cell-InformationItemIE-AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID      id-Local-Cell-InformationItem-AuditRsp          CRITICALITY   ignore          TYPE
  Local-Cell-InformationItem-AuditRsp          PRESENCE      mandatory},
  ...
}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
  local-Cell-ID                  Local-Cell-ID,
  dl-or-global-capacityCredit    DL-or-Global-CapacityCredit,
  ul-capacityCredit              UL-CapacityCredit          OPTIONAL,
  commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw,
  maximumDL-PowerCapability      MaximumDL-PowerCapability  OPTIONAL,
  iE-Extensions                  ProtocolExtensionContainer {{ Local-Cell-InformationItem-
AuditRsp-ExtIEs}}          OPTIONAL,
  ...
}

Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

ResourceStatusIndication ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container  {{ResourceStatusIndication-IEs}},
  protocolExtensions  ProtocolExtensionContainer  {{ResourceStatusIndication-Extensions}}
  OPTIONAL,
  ...
}

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-IndicationType-ResourceStatusInd          CRITICALITY   ignore          TYPE
  IndicationType-ResourceStatusInd          PRESENCE      mandatory   }|
  { ID      id-Cause          CRITICALITY   ignore          TYPE
  Cause          PRESENCE      optional   },
  ...
}

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
IndicationType-ResourceStatusInd ::= CHOICE {
    no-Failure                No-Failure-ResourceStatusInd,
    serviceImpacting          ServiceImpacting-ResourceStatusInd,
    cellControl                NULL,
    ...
}
No-Failure-ResourceStatusInd ::= ProtocolIE-Container {{ No-FailureIE-ResourceStatusInd }}
No-FailureIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-No-FailureItem-ResourceStatusInd  CRITICALITY ignore  TYPE No-FailureItem-
ResourceStatusInd      PRESENCE mandatory },
    ...
}
No-FailureItem-ResourceStatusInd ::= SEQUENCE {
    nodeB-Information-ResourceStatusInd      NodeB-Information-ResourceStatusInd,
    local-Cell-InformationList              Local-Cell-InformationList-ResourceStatusInd,
    iE-Extensions                          ProtocolExtensionContainer { { No-FailureItem-
ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}
No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
NodeB-Information-ResourceStatusInd ::= SEQUENCE {
    dl-or-global-capacityCredit            DL-or-Global-CapacityCredit,
    ul-capacityCredit                      UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                          ProtocolExtensionContainer { { NodeB-Information-
ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}
NodeB-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF
ProtocolIE-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }}
Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE Local-Cell-
InformationItem-ResourceStatusInd      PRESENCE mandatory },
    ...
}
Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    local-CellID                          Local-Cell-ID,
    addorDeleteIndicator                  AddorDeleteIndicator,
    dl-or-global-capacityCredit            DL-or-Global-CapacityCredit  OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
    ul-capacityCredit                      UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw  OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
    dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw
OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
    maximumDL-PowerCapability              MaximumDL-PowerCapability,
    iE-Extensions                          ProtocolExtensionContainer { { Local-Cell-
InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}
Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
ServiceImpacting-ResourceStatusInd ::= ProtocolIE-Container {{ ServiceImpactingIE-ResourceStatusInd
}}
ServiceImpactingIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-ServiceImpactingItem-ResourceStatusInd CRITICALITY ignore TYPE ServiceImpactingItem-
ResourceStatusInd PRESENCE mandatory },
    ...
}

```

```

ServiceImpactingItem-ResourceStatusInd ::= SEQUENCE {
    nodeB-Information-Service NodeB-Information-Service-ResourceStatusInd
OPTIONAL,
    local-Cell-InformationList Local-Cell-InformationList2-ResourceStatusInd
OPTIONAL,
    cCP-InformationList CCP-InformationList-ResourceStatusInd
OPTIONAL,
    cell-InformationList Cell-InformationList-ResourceStatusInd
OPTIONAL,
    primary-SCH-Information P-SCH-Information-ResourceStatusInd
OPTIONAL,
    secondary-SCH-Information S-SCH-Information-ResourceStatusInd
OPTIONAL,
    primary-CPICH-Information P-CPICH-Information-ResourceStatusInd
OPTIONAL,
    secondary-CPICH-Information S-CPICH-InformationList-ResourceStatusInd
OPTIONAL,
    primary-CCPCH-Information P-CCPCH-Information-ResourceStatusInd
OPTIONAL,
    bCH-Information BCH-Information-ResourceStatusInd
OPTIONAL,
    secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd
OPTIONAL,
    pCH-Information PCH-Information-ResourceStatusInd
OPTIONAL,
    pICH-Information PICH-Information-ResourceStatusInd
OPTIONAL,
    fACH-InformationList FACH-InformationList-ResourceStatusInd
OPTIONAL,
    pRACH-InformationList PRACH-InformationList-ResourceStatusInd
OPTIONAL,
    rACH-InformationList RACH-InformationList-ResourceStatusInd
OPTIONAL,
    aICH-InformationList AICH-InformationList-ResourceStatusInd
OPTIONAL,
    sCH-Information SCH-Information-ResourceStatusInd
OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { ServiceImpactingItem-
ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

```

```

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

NodeB-Information-Service-ResourceStatusInd ::= SEQUENCE {
    dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
    ul-capacityCredit UL-CapacityCredit OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { NodeB-Information-
Service-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

```

```

NodeB-Information-Service-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF
ProtocolIE-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

```

```

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-
InformationItem2-ResourceStatusInd PRESENCE mandatory },
    ...
}

```

```

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
    local-Cell-ID Local-Cell-ID,
    dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
    ul-capacityCredit UL-CapacityCredit OPTIONAL,
    maximum-DL-PowerCapability MaximumDL-PowerCapability OPTIONAL,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { { Local-Cell-
InformationItem2-ResourceStatusInd-ExtIEs } }          OPTIONAL,
    ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPInNodeB)) OF ProtocolIE-Container
{{ CCP-InformationItemIE-ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-CCP-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE CCP-InformationItem-
ResourceStatusInd          PRESENCE mandatory },
    ...
}

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
    communicationControlPortID          CommunicationControlPortID,
    resourceOperationalState            ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,
    iE-Extensions                      ProtocolExtensionContainer { { CCP-InformationItem-
ResourceStatusInd-ExtIEs } }          OPTIONAL,
    ...
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellInNodeB)) OF ProtocolIE-
Container {{ Cell-InformationItemIE-ResourceStatusInd }}

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE Cell-InformationItem-
ResourceStatusInd          PRESENCE mandatory },
    ...
}

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    c-ID                                C-ID,
    resourceOperationalState            ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,          --to do: FFS
    maximumDL-PowerCapability           MaximumDL-PowerCapability,  --to do: FFS
    minSpreadingFactor                  MinSpreadingFactor,
    iE-Extensions                      ProtocolExtensionContainer { { Cell-InformationItem-
ResourceStatusInd-ExtIEs } }          OPTIONAL,
    ...
}

Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-SCH-InformationIE-
ResourceStatusInd }}

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-SCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE P-SCH-
InformationItem-ResourceStatusInd          PRESENCE mandatory },
    ...
}

P-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID            CommonPhysicalChannelID,
    resourceOperationalState            ResourceOperationalState,
    availabilityStatus                  AvailabilityStatus,
    iE-Extensions                      ProtocolExtensionContainer { { P-SCH-InformationItem-
ResourceStatusInd-ExtIEs } }          OPTIONAL,
    ...
}

P-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ S-SCH-InformationIE-
ResourceStatusInd }}

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE S-SCH-
InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

S-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  resourceOperationalState  ResourceOperationalState,
  availabilityStatus  AvailabilityStatus,
  iE-Extensions  ProtocolExtensionContainer { { S-SCH-InformationItem-
ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

S-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CPICH-InformationIE-
ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE P-CPICH-
InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

P-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  resourceOperationalState  ResourceOperationalState,
  availabilityStatus  AvailabilityStatus,
  iE-Extensions  ProtocolExtensionContainer { { P-CPICH-InformationItem-
ResourceStatInd-ExtIEs} }  OPTIONAL,
  ...
}

P-CPICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-
Container {{ S-CPICH-InformationItemIE-ResourceStatusInd }}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE S-CPICH-
InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

S-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  resourceOperationalState  ResourceOperationalState,
  availabilityStatus  AvailabilityStatus,
  iE-Extensions  ProtocolExtensionContainer { { S-CPICH-
InformationItem-ResourceStatusInd-ExtIEs} }  OPTIONAL,
  ...
}

S-CPICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-
ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE P-CCPCH-
InformationItem-ResourceStatusInd  PRESENCE mandatory },
  ...
}

P-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  resourceOperationalState  ResourceOperationalState,

```

```

        availabilityStatus
        iE-Extensions
InformationItem-ResourceStatusInd-ExtIEs} }
    ...
}

P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ BCH-InformationIE-ResourceStatusInd }}

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE BCH-InformationItem-
ResourceStatusInd          PRESENCE mandatory },
    ...
}

BCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    resourceOperationalState          ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { BCH-InformationItem-
ResourceStatusInd-ExtIEs} }          OPTIONAL,
    ...
}

BCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-
Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}

S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE S-CCPCH-
InformationItem-ResourceStatusInd          PRESENCE mandatory },
    ...
}

S-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID           CommonPhysicalChannelID,
    resourceOperationalState           ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { S-CCPCH-
InformationItem-ResourceStatusInd-ExtIEs} }    OPTIONAL,
    ...
}

S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PCH-InformationIE-ResourceStatusInd }}

PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE PCH-InformationItem-
ResourceStatusInd          PRESENCE mandatory },
    ...
}

PCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID           CommonTransportChannelID,
    resourceOperationalState           ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    iE-Extensions                     ProtocolExtensionContainer { { PCH-InformationItem-
ResourceStatusInd-ExtIEs} }          OPTIONAL,
    ...
}

PCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PICH-InformationIE-ResourceStatusInd
}}

PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-PICH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE PICH-InformationItem-
ResourceStatusInd      PRESENCE mandatory },
    ...
}

PICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { PICH-InformationItem-
ResourceStatusInd-ExtIEs} }      OPTIONAL,
    ...
}

PICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container
{{ FACH-InformationItemIE-ResourceStatusInd }}

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE FACH-InformationItem-
ResourceStatusInd      PRESENCE mandatory },
    ...
}

FACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID         CommonTransportChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { FACH-InformationItem-
ResourceStatusInd-ExtIEs} }      OPTIONAL,
    ...
}

FACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-
Container {{ PRACH-InformationItemIE-ResourceStatusInd }}

PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-InformationItem-ResourceStatusInd  CRITICALITY ignore      TYPE PRACH-
InformationItem-ResourceStatusInd      PRESENCE mandatory },
    ...
}

PRACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { PRACH-
InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

PRACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container
{{ RACH-InformationItemIE-ResourceStatusInd }}

RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE RACH-InformationItem-
ResourceStatusInd      PRESENCE mandatory },
    ...
}

RACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
    commonTransportChannelID         CommonTransportChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { RACH-
InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

```



```

RACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container
  {{ AICH-InformationItemIE-ResourceStatusInd }}

AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE AICH-InformationItem-
ResourceStatusInd PRESENCE mandatory },
  ...
}

AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { AICH-InformationItem-
ResourceStatusInd-ExtIEs} } OPTIONAL,
  ...
}

AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ SCH-InformationIE-ResourceStatusInd }}

SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE SCH-InformationItem-
ResourceStatusInd PRESENCE mandatory },
  ...
}

SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
  commonTransportChannelID CommonPhysicalChannelID
  CommonTransportChannelID CommonPhysicalChannelID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { SCH-InformationItem-
ResourceStatusInd-ExtIEs} } OPTIONAL,
  ...
}

SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- SYSTEM INFORMATION UPDATE REQUEST
--
-- *****

SystemInformationUpdateRequest ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{SystemInformationUpdateRequest-IEs}},
  protocolExtensions ProtocolExtensionContainer {{SystemInformationUpdateRequest-
Extensions}} OPTIONAL,
  ...
}

SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID
  PRESENCE mandatory }|
  { ID id-BCCH-ModificationTime CRITICALITY reject TYPE
  BCCH-ModificationTime PRESENCE optional }|
  { ID id-MIB-SIB-InformationList-SystemInfoUpdateRqst CRITICALITY reject TYPE MIB-
SIB-InformationList-SystemInfoUpdateRqst PRESENCE mandatory },
  ...
}

SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MIB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SIB-
InformationItem-SystemInfoUpdateRqst

```

```

MIB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
    iB-Type                IB-Type,
    sIB-DeletionIndicator  SIB-DeletionIndicator OPTIONAL,
    -- This IE shall be present if the IB-Type is not equal to "MIB"
    deletionIndicator      DeletionIndicator-SystemInfoUpdate,
    iE-Extensions          ProtocolExtensionContainer { { MIB-SIB-InformationItem-
SystemInfoUpdateRqst-ExtIEs} } OPTIONAL,
    ...
}

MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DeletionIndicator-SystemInfoUpdate ::= CHOICE {
    no-Deletion            No-Deletion-SystemInfoUpdate,
    ...
}

No-Deletion-SystemInfoUpdate ::= ProtocolIE-Container {{ No-DeletionIE-SystemInfoUpdate }}

No-DeletionIE-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    { ID id-No-DeletionItem-SystemInfoUpdate CRITICALITY ignore TYPE No-DeletionItem-
SystemInfoUpdate PRESENCE mandatory },
    ...
}

No-DeletionItem-SystemInfoUpdate ::= SEQUENCE {
    sIB-Originator        SIB-Originator OPTIONAL,
    -- This IE shall be present if the IB-Type is not equal to "MIB"
    iB-SG-REP            IB-SG-REP,
    segmentInformationList SegmentInformationList-SystemInfoUpdate,
    iE-Extensions        ProtocolExtensionContainer { { No-DeletionItem-
SystemInfoUpdate-ExtIEs} } OPTIONAL,
    ...
}

No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Container {{ SegmentInformationListIEs-
SystemInfoUpdate }}

SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    { ID id-SegmentInformationListIE-SystemInfoUpdate CRITICALITY ignore TYPE
SegmentInformationListIE-SystemInfoUpdate PRESENCE mandatory },
    ...
}

SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
SegmentInformationItem-SystemInfoUpdate

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
    iB-SG-POS            IB-SG-POS,
    iB-SG-DATA          IB-SG-DATA OPTIONAL,
    -- This IE shall be present if the SIB Originator IE is set to "CRNC"
    iE-Extensions        ProtocolExtensionContainer { { SegmentInformationItem-
SystemInfoUpdate-ExtIEs} } OPTIONAL,
    ...
}

SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

**TSG-RAN Working Group 3 Meeting #13**  
**Hawaii, USA, 22<sup>nd</sup> – 26<sup>th</sup> May 2000**

**Document R3-001637**

e.g. for 3GPP use the format TP-99xxx  
 or for SMG, use the format P-99-xxx

<b>CHANGE REQUEST</b>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>	
<b>25.433</b>	<b>CR</b>	<b>163 R1</b>	Current Version: <b>3.1.0</b>
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>	
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here ↑</small>	for approval for information	<input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** April 2000

**Subject:** Clarification of Transformation of Tabular Format Choices based on IEs to ASN.1 Choices

**Work item:**

<b>Category:</b>	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"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** In the current RNSAP specification there are some cases where an IE and the choice based on the IE in the Tabular Format is transformed into only a choice in the ASN.1. This applies to the following IEs:

- Diversity Indication (RL SETUP RESPONSE [FDD], RL SETUP FAILURE [FDD], RL ADDITION RESPONSE, and RL ADDITION FAILURE [FDD])
- Common Measurement Object Type (COMMON MEASUREMENT INITIATION REQUEST)

This CR clarifies the transformation of the above IEs by adding a comment into the PDU definition module.

The CR also makes an editorial correction to the name of the Diversity Indication IE in the RL SETUP RESPONSE [FDD] message to have a unified name of the IE in all messages where it appears.

**Clauses affected:** 9.3.3

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	
------------------------------	---	--	--

**Other comments:**



### 9.3.3 NBAP PDU Content Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

.
.
.
Skipped parts of the ASN.1 module.
.
.
.

-- *****
--
-- COMMON MEASUREMENT INITIATION REQUEST
--
-- *****

CommonMeasurementInitiationRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonMeasurementInitiationRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonMeasurementInitiationRequest-Extensions}}    OPTIONAL,
    ...
}

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-MeasurementID          CRITICALITY reject          TYPE      MeasurementID          PRESENCE mandatory  }|
    { ID      id-CommonMeasurementObjectType-CM-Rqst  CRITICALITY ignore        TYPE      CommonMeasurementObjectType-CM-Rqst  PRESENCE
    mandatory  }|
    -- This IE represents both the Common Measurement Object Type IE and the choice based on the Common Measurement Object Type
    -- as described in the tabular message format in subclause 9.1.
    { ID      id-CommonMeasurementType          CRITICALITY reject          TYPE      CommonMeasurementType          PRESENCE mandatory
    }|
    { ID      id-MeasurementFilterCoefficient    CRITICALITY reject          TYPE      MeasurementFilterCoefficient    PRESENCE optional
    }|
    { ID      id-ReportCharacteristics          CRITICALITY reject          TYPE      ReportCharacteristics          PRESENCE mandatory
    },
    ...
}

CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
    cell                Cell-CM-Rqst,
    rACH                RACH-CM-Rqst,
    ...
}

Cell-CM-Rqst ::= ProtocolIE-Container {{ CellIE-CM-Rqst }}

CellIE-CM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-CellItem-CM-Rqst  CRITICALITY reject  TYPE CellItem-CM-Rqst  PRESENCE mandatory },
    ...
}

CellItem-CM-Rqst ::= SEQUENCE {
    c-ID                C-ID,
    timeSlot            TimeSlot  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs } }  OPTIONAL,
    ...
}

CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-CM-Rqst ::= ProtocolIE-Container {{ RACHIE-CM-Rqst }}

RACHIE-CM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-RACHItem-CM-Rqst  CRITICALITY reject  TYPE RACHItem-CM-Rqst  PRESENCE mandatory },
    ...
}

RACHItem-CM-Rqst ::= SEQUENCE {
    c-ID                C-ID,
    commonTransportChannelID  CommonTransportChannelID,
    iE-Extensions      ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs } }  OPTIONAL,
    ...
}

RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

.
.
.
Skipped parts of the ASN.1 module.
.
.
.

-- *****

```

```

--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}  OPTIONAL,
    ...
}

RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE CRNC-CommunicationContextID          PRESENCE
      mandatory }|
    { ID      id-NodeB-CommunicationContextID        CRITICALITY ignore          TYPE NodeB-CommunicationContextID        PRESENCE
      mandatory }|
    { ID      id-CommunicationControlPortID          CRITICALITY ignore          TYPE CommunicationControlPortID          PRESENCE
      mandatory }|
    { ID      id-RL-InformationResponseList-RL-SetupRspFDD  CRITICALITY ignore          TYPE RL-InformationResponseList-RL-SetupRspFDD  PRESENCE
      mandatory }|
    { ID      id-CriticalityDiagnostics              CRITICALITY ignore          TYPE CriticalityDiagnostics              PRESENCE
      optional  },
    ...
}

RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container{{ RL-InformationResponseItemIE-RL-SetupRspFDD }}

RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-RL-InformationResponseItem-RL-SetupRspFDD          CRITICALITY ignore          TYPE RL-InformationResponseItem-RL-SetupRspFDD
      PRESENCE mandatory},
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    rL-Set-ID                RL-Set-ID,
    ul-InterferenceLevel     UL-InterferenceLevel,
    diversityIndication-RL-SetupRspFDD  DiversityIndication-RL-SetupRspFDD  OPTIONAL,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.is present only if the RL is not the first one in the RL Information
    dSCH-InformationResponseList  DSCH-InformationResponseList-RL-SetupRspFDD  OPTIONAL,
    sSDT-SupportIndicator        SSDT-SupportIndicator,
    iE-Extensions               ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} }  OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining                               Combining-RL-SetupRspFDD,
    nonCombiningOrIENotPrsent              NonCombiningOrIENotPrsent-RL-SetupRspFDD,
    ...
}
Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}
CombiningIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD   CRITICALITY ignore   TYPE CombiningItem-RL-SetupRspFDD   PRESENCE mandatory },
    ...
}
CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                                   RL-ID,
    iE-Extensions                           ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs } }   OPTIONAL,
    ...
}
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
NonCombiningOrIENotPrsent-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrIENotPrsentIE-RL-SetupRspFDD }}
NonCombiningOrIENotPrsentIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrIENotPrsentItem-RL-SetupRspFDD   CRITICALITY ignore   TYPE NonCombiningOrIENotPrsentItem-RL-SetupRspFDD   PRESENCE mandatory },
    ...
}
NonCombiningOrIENotPrsentItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponseList             DCH-InformationResponseList-RL-SetupRspFDD   OPTIONAL ,
    iE-Extensions                           ProtocolExtensionContainer { { NonCombiningOrIENotPrsentItem-RL-SetupRspFDD-ExtIEs } }   OPTIONAL,
    ...
}
NonCombiningOrIENotPrsentItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspFDD
DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-ID                                   DCH-ID,
    bindingID                               BindingID,
    transportLayerAddress                   TransportLayerAddress,
    iE-Extensions                           ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } }   OPTIONAL,

```



```

}
...
}
DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DSCH-InformationResponseList-RL-SetupRspFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspFDD }}
DSCH-InformationResponseListIEs-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
{ ID id-DSCH-InformationResponseListIE-RL-SetupRspFDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-SetupRspFDD PRESENCE mandatory
},
...
}
DSCH-InformationResponseListIE-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-SetupRspFDD
DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
dSCH-ID DSCH-ID,
bindingID BindingID,
transportLayerAddress TransportLayerAddress,
iE-Extensions ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
...
}
DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
.
.
.
Skipped parts of the ASN.1 module.
.
.
.
-- *****
--
-- 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 }|

```

**3G TS 25.433 version 3.0.0 Release 1999**

```

{ ID id-NodeB-CommunicationContextID
  PRESENCE optional }|
{ ID id-CommunicationControlPortID
  PRESENCE mandatory }|
{ ID id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
SetupFailureFDD PRESENCE mandatory }|
{ ID id-Successful-RL-InformationRespList-RL-SetupFailureFDD
SetupFailureFDD PRESENCE optional }|
{ ID id-CriticalityDiagnostics
  PRESENCE optional },
...
}

```

```

RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}

```

```

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
{ ID id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespItem-RL-
SetupFailureFDD PRESENCE mandatory},
...
}

```

```

Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
rL-ID RL-ID,
cause Cause,
iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
OPTIONAL,
...
}

```

```

Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Container {{ Successful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}

```

```

Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
{ ID id-Successful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-
SetupFailureFDD PRESENCE mandatory},
...
}

```

```

Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
rL-ID RL-ID,
rL-Set-ID RL-Set-ID,
ul-InterferenceLevel UL-InterferenceLevel,
}

```

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CRITICALITY	ignore	TYPE	Error! No text of specified style in document.
CRITICALITY	ignore	TYPE	NodeB-CommunicationContextID
CRITICALITY	ignore	TYPE	CommunicationControlPortID
CRITICALITY	ignore	TYPE	Unsuccessful-RL-InformationRespList-RL-
CRITICALITY	ignore	TYPE	Successful-RL-InformationRespList-RL-
CRITICALITY	ignore	TYPE	CriticalityDiagnostics

```

diversityIndication          DiversityIndication-RL-SetupFailureFDD      OPTIONAL,
-- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
-- the tabular message format in subclause 9.1.is present if at least one of the RL is not the first one in the RL information
dSCH-InformationResponseList DSCH-InformationRespList-RL-SetupFailureFDD  OPTIONAL,
sSDT-SupportIndicator        SSdT-SupportIndicator,
iE-Extensions                ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } }
OPTIONAL,
...
}

Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
    combining                Combining-RL-SetupFailureFDD,
    nonCombiningOrIENotPrsent NonCombiningOrIENotPrsent-RL-SetupFailureFDD,
    ...
}

Combining-RL-SetupFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupFailureFDD }}

CombiningIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupFailureFDD CRITICALITY ignore TYPE CombiningItem-RL-SetupFailureFDD PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

NonCombiningOrIENotPrsent-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrIENotPrsentIE-RL-SetupFailureFDD }}

NonCombiningOrIENotPrsentIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD CRITICALITY ignore TYPE NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD PRESENCE
mandatory },
    ...
}

NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponseList DCH-InformationRespList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD-ExtIEs } }
OPTIONAL,
    ...
}

```

```

NonCombiningOrIENotPrsentItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfDCHs)) OF DCH-InformationRespItem-RL-SetupFailureFDD

DCH-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
  dCH-ID                DCH-ID,
  bindingID             BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions        ProtocolExtensionContainer { { DCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-InformationRespList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DSCH-InformationRespListIEs-RL-SetupFailureFDD }}

DSCH-InformationRespListIEs-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationRespListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DSCH-InformationRespListIE-RL-SetupFailureFDD PRESENCE mandatory
},
  ...
}

DSCH-InformationRespListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationRespItem-RL-SetupFailureFDD

DSCH-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
  dSCH-ID                DSCH-ID,
  bindingID             BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions        ProtocolExtensionContainer { { DSCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DSCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

.
.
.
Skipped parts of the ASN.1 module.
.
.
.
-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD

```

```

--
-- *****
RadioLinkAdditionResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID          CRITICALITY    ignore          TYPE    CRNC-CommunicationContextID
    PRESENCE    mandatory    }|
    { ID    id-RL-InformationResponseList-RL-AdditionRspFDD    CRITICALITY    ignore          TYPE    RL-InformationResponseList-RL-AdditionRspFDD
    PRESENCE    mandatory    }|
    { ID    id-CriticalityDiagnostics              CRITICALITY    ignore          TYPE    CriticalityDiagnostics
    PRESENCE    optional    },
    ...
}

RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationResponseItemIE-RL-AdditionRspFDD }}

RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
    { ID    id-RL-InformationResponseItem-RL-AdditionRspFDD    CRITICALITY    ignore          TYPE    RL-InformationResponseItem-RL-AdditionRspFDD
    PRESENCE    mandatory},
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    ul-InterferenceLevel UL-InterferenceLevel,
    diversityIndication DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator SSDT-SupportIndicator,
    iE-Extensions        ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} }    OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining            Combining-RL-AdditionRspFDD,
    non-combining        Non-Combining-RL-AdditionRspFDD,
}

```

```

}
...
}
Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionRspFDD  CRITICALITY ignore    TYPE CombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },
  ...
}

CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
  rL-ID                               RL-ID,
  iE-Extensions                       ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} }  OPTIONAL,
  ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Non-Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionRspFDD }}

Non-CombiningIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Non-CombiningItem-RL-AdditionRspFDD  CRITICALITY ignore    TYPE Non-CombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },
  ...
}

Non-CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
  dCH-InformationResponseList        DCH-InformationResponseList-RL-AdditionRspFDD,
  iE-Extensions                       ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspFDD-ExtIEs} }  OPTIONAL,
  ...
}

Non-CombiningItem-RL-AdditionRspFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DCH-InformationResponseItem-RL-AdditionRspFDD

DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
  dCH-ID                               DCH-ID,
  bindingID                             BindingID,
  transportLayerAddress                 TransportLayerAddress,
  iE-Extensions                         ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} }  OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

RadioLinkAdditionResponseTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE CRNC-CommunicationContextID          PRESENCE
      mandatory  }|
    { ID      id-RL-InformationResponse-RL-AdditionRspTDD          CRITICALITY ignore          TYPE RL-InformationResponse-RL-AdditionRspTDD          PRESENCE
      mandatory  }|
    { ID      id-CriticalityDiagnostics              CRITICALITY ignore          TYPE CriticalityDiagnostics              PRESENCE
      optional   },
    ...
}

RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uL-InterferenceList-RL-AdditionRspTDD          UL-InterferenceList-RL-AdditionRspTDD,
    diversityIndication  DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    dSCH-InfomationResponseList          DSCH-InformationResponseList-RL-AdditionRspTDD          OPTIONAL,
    uSCH-InfomationResponseList          USCH-InformationResponseList-RL-AdditionRspTDD          OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} }    OPTIONAL,
    ...
}

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1.. maxNrOfULTSs)) OF UL-InterferenceItem-RL-AdditionRspTDD

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    ul-InterferenceLevel    UL-InterferenceLevel,
    iE-Extensions                ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} }    OPTIONAL,
    ...
}

```

```

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining                Combining-RL-AdditionRspTDD,
    non-Combining            Non-Combining-RL-AdditionRspTDD,
    ...
}

Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspTDD }}

CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspTDD  CRITICALITY ignore    TYPE CombiningItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} }    OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Non-Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionRspTDD }}

Non-CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-AdditionRspTDD  CRITICALITY ignore    TYPE Non-CombiningItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

Non-CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponseList  DCH-InformationResponseList-RL-AdditionRspTDD    OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspTDD-ExtIEs} }    OPTIONAL,
    ...
}

Non-CombiningItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD

DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    bindingID                  BindingID,
    transportLayerAddress      TransportLayerAddress,
    iE-Extensions              ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} }    OPTIONAL,
}

```



```

}
...
}
DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
DSCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-AdditionRspTDD }}
DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseListIE-RL-AdditionRspTDD  CRITICALITY ignore  TYPE DSCH-InformationResponseListIE-RL-AdditionRspTDD  PRESENCE
mandatory },
  ...
}
DSCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-AdditionRspTDD
DSCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  bindingID        BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions   ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} }  OPTIONAL,
  ...
}
DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Container {{ USCH-InformationResponseListIEs-RL-AdditionRspTDD }}
USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationResponseListIE-RL-AdditionRspTDD  CRITICALITY ignore  TYPE USCH-InformationResponseListIE-RL-AdditionRspTDD  PRESENCE
mandatory },
  ...
}
USCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem-RL-AdditionRspTDD
USCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  bindingID        BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions   ProtocolExtensionContainer { { USCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} }  OPTIONAL,
  ...
}
USCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

RadioLinkAdditionFailureFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionFailureFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID          CRITICALITY    ignore    TYPE    CRNC-CommunicationContextID
      PRESENCE    mandatory    }|
    { ID    id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
    AdditionFailureFDD    PRESENCE    mandatory    }|
    { ID    id-Successful-RL-InformationRespList-RL-AdditionFailureFDD
    AdditionFailureFDD    PRESENCE    mandatory    }|
    { ID    id-CriticalityDiagnostics              CRITICALITY    ignore    TYPE    CriticalityDiagnostics
      PRESENCE    optional    },
    ...
}

RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID    id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD          CRITICALITY    ignore    TYPE    Unsuccessful-RL-InformationRespItem-RL-
    AdditionFailureFDD    PRESENCE    mandatory},
    ...
}

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }
    OPTIONAL,
    ...
}

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ Successful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}

```

```

Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-
AdditionFailureFDD PRESENCE mandatory},
  ...
}

Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID RL-ID,
  rL-Set-ID RL-Set-ID,
  ul-InterferenceLevel UL-InterferenceLevel,
  diversityIndication DiversityIndication-RL-AdditionFailureFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  sSDT-SupportIndicator SSDT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs} }
  OPTIONAL,
  ...
}

Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
  combining Combining-RL-AdditionFailureFDD,
  non-Combining Non-Combining-RL-AdditionFailureFDD,
  ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionFailureFDD }}

CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE CombiningItem-RL-AdditionFailureFDD PRESENCE mandatory },
  ...
}

CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Non-Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionFailureFDD }}

Non-CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Non-CombiningItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Non-CombiningItem-RL-AdditionFailureFDD PRESENCE mandatory },

```

```

}
...
}
Non-CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponseList          DCH-InformationResponseList-RL-AdditionFailureFDD,
    iE-Extensions                        ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD
DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-ID                                DCH-ID,
    bindingID                             BindingID,
    transportLayerAddress                 TransportLayerAddress,
    iE-Extensions                        ProtocolExtensionContainer { { DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}
DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
.
.
.
Skipped parts of the ASN.1 module.
.
.
.

```