TSG RAN Meeting #19   **RP-030080**
Birmingham, UK, 11 - 14 March 2003

Title   CR (Rel-5 only) to TS 25.423 and 25.433 linked to RAN1 (25.225) on
                                    Measurement for HS-SICH Outer Loop Power Control
Source   TSG RAN WG3
Agenda Item   8.3.6

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-030312	25.423	5.4.0	5.5.0	REL-5	781	1	F	Measurement for HS-SICH Outer Loop Power Control	HSDPA-IubIur
R3-030311	25.433	5.3.0	5.4.0	REL-5	803	1	F	Measurement for HS-SICH Outer Loop Power Control	HSDPA-IubIur
R1-030304	25.225	5.3.0	5.4.0	REL-5	065	2	F	Addition of HS-SICH quality measurement for UTRA TDD	HSDPA-Phys

CR-Form-v7

CHANGE REQUEST

| ⌘ | **25.225** CR | **065** | ⌘ **rev** | **2** | ⌘ | Current version: | **5.3.0** | ⌘ |

For HELP on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps⌘ **-**   ME ☐ Radio Access Network **X** Core Network **-**

Title: ⌘	Addition of HS-SICH quality measurement for UTRA TDD	
Source: ⌘	TSG RAN WG1	
Work item code:⌘	HSDPA-Phys	*Date:* ⌘ 18/02/2003

Category: ⌘	**F**	*Release:* ⌘ Rel-5	
	Use one of the following categories:	*Use one of the following releases:*	
	F (correction)	*2*	*(GSM Phase 2)*
	A (corresponds to a correction in an earlier release)	*R96*	*(Release 1996)*
	B (addition of feature),	*R97*	*(Release 1997)*
	C (functional modification of feature)	*R98*	*(Release 1998)*
	D (editorial modification)	*R99*	*(Release 1999)*
	Detailed explanations of the above categories can	*Rel-4*	*(Release 4)*
	be found in 3GPP TR 21.900.	*Rel-5*	*(Release 5)*
		Rel-6	*(Release 6)*

Reason for change: ⌘	No UTRAN measurement is applicable to HS-SICH yet.
Summary of change:⌘	Applicability of UTRAN RSCP and SIR extended to HS-SICH. Introduction of new HS-SICH reception quality measurement
Consequences if not approved: ⌘	RRM will have no information on performance of the UL HSDPA control channel performance.

Clauses affected: ⌘	5.2.1, 5.2.4, new 5.2.15

	Y	N		
Other specs ⌘	X		Other core specifications ⌘	TS25.123, TS25.302, TS25.423, TS25.433
affected:		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘	-

5.2.1 RSCP

Definition	Received Signal Code Power, the received power on one DPCH, PRACH~~or~~, PUSCH or HS-SICH code. The reference point for the RSCP shall be the Rx antenna connector.

5.2.4   SIR

Definition	Signal to Interference Ratio, defined as: (RSCP/Interference)xSF. Where: RSCP = Received Signal Code Power, the received power on the code of a specified DPCH, PRACH~~or~~, PUSCH or HS-SICH. Interference = The interference on the received signal in the same timeslot which can't be eliminated by the receiver. SF = The used spreading factor. The reference point for the SIR shall be the Rx antenna connector.

5.2.15   HS-SICH reception quality

Definition	The HS-SICH reception quality is defined via the following quantities. Each quantity is measured over the defined reporting period per UE:
	• the number of expected HS-SICH transmissions from a given UE, and
	• the number of unsuccessful HS-SICH receptions for this same UE in the Node B.
	The number of expected HS-SICH transmissions from any given UE shall correspond to the number of scheduled HS-SCCH transmissions to the same UE.
	Unsuccessful HS-SICH receptions shall be further divided into two categories:
	• the number of failed HS-SICH receptions, and
	• the number of missed HS-SICH receptions
	for a given UE counted during the reporting period.
	A failed HS-SICH reception is defined as an HS-SICH estimated to have been transmitted by the UE, but deemed not to have been received successfully by the Node B. A missed HS-SICH reception is defined as an HS-SICH estimated not to have been transmitted by the UE, if an HS-SICH transmission occasion was scheduled for the UE.
	For the HS-SICH reception quality measurement, only HS-SICH transmission occasions for the respective UE during the reporting period shall be taken into account.
	For 1.28 Mcps TDD, only measurements made on HS-SICH transmissions that were transmitted using open loop power control shall be reported as part of this measurement. The NodeB shall assume that open loop power control was used if an HS-SICH is the first detected from a UE following a gap of one or more HS-SCCH transmissions to that same UE.

CR-Form-v7

CHANGE REQUEST

⌘   **25.423** CR **781**   ⌘ **rev** **1** ⌘   Current version: **5.4.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐   ME ☐   Radio Access Network **X**   Core Network ☐

Title: ⌘	HS-SICH quality Reporting to support outer loop power control	
Source: ⌘	RAN WG3	
Work item code: ⌘	HSDPA-IubIur	***Date:*** ⌘ 17/02/2003

Category: ⌘ **F**	***Release:*** ⌘ Rel-5

Use one of the following categories:
   F *(correction)*
   A *(corresponds to a correction in an earlier release)*
   B *(addition of feature),*
   C *(functional modification of feature)*
   D *(editorial modification)*
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use one of the following releases:
   2   *(GSM Phase 2)*
   R96   *(Release 1996)*
   R97   *(Release 1997)*
   R98   *(Release 1998)*
   R99   *(Release 1999)*
   Rel-4   *(Release 4)*
   Rel-5   *(Release 5)*
   Rel-6   *(Release 6)*

Reason for change: ⌘	To allow the SRNC to track uplink outer loop power control for the HS-SICH additional information is needed since the uplink assocated dedicated channel is possibly in a different timeslot and thus not as reliable as is necessary. WG1 after studying the issue has agreed to include a HS-SICH quality measurement which allows for the measurement of successful and unsuccessful HS-SICH transmissions in a similar manner as BLER (the HS-SICH does not have a CRC so traditional BLER is not possible). Additionally WG1 has agreed to extend the SIR and RSCP measurements to the HS-SICH.
Summary of change: ⌘	The measurement procedure has been extended to include the new HS-SICH quality measurement, and since there are separate outer loops for each HS-SICH (they may be in different timeslots) this measurement (along with the extended SIR and RSCP measurements) need to be reported individually for each HS-SICH. Thus a HS-SICH ID also needs to be added to the channel allocation sections and measurement reporting to allow this identification. Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects the newly added HS-DSCH for TDD
Consequences if not approved: ⌘	HS-SICH outer loop power control will not work since the SRNC does not have sufficient information in which to base its outer loop adjustments.
Clauses affected: ⌘	8.3.11, 8.3.12, 9.1.28, 9.1.29, 9.1.31, 9.2.1.18, 9.2.1.19, 9.2.1.39, 9.2.3.3ab, 9.2.3.x, 9.3.3, 9.3.4, 9.3.6

	Y	N			
Other specs	⌘	X		Other core specifications	⌘ 25.225 CR 65
					25.433 CR 803
affected:			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘ x=9.2.3.3ad				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request

8.3.11   Dedicated Measurement Initiation

8.3.11.1   General

This procedure is used by an SRNS to request the initiation of dedicated measurements in a DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.11.2   Successful Operation

SRNC   DRNC

```
           DEDICATED MEASUREMENT INITIATION
                      REQUEST
    ─────────────────────────────────────────────▶

           DEDICATED MEASUREMENT INITIATION
                     RESPONSE
    ◀─────────────────────────────────────────────
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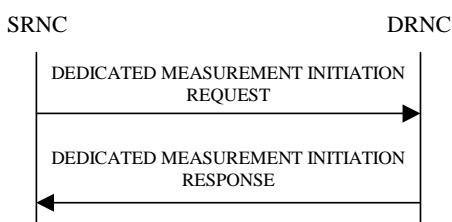
Figure 20: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the SRNC to the DRNC.

Upon receipt, the DRNC shall initiate the requested dedicated measurement according to the parameters given in the request.

If the Dedicated Measurement Object Type is indicated as being "RL"jn the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all the indicated Radio Links.

 [FDD - If the Dedicated Measurement Object Type is indicated as being "RLS" jn the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all the indicated Radio Link Sets.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" jn the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all current and future Radio Links within the UE Context.]

[TDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" jn the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for one existing DPCH per CCTrCH in each used time slot of current and future Radio Links within the UE Context, provided the measurement type is applicable to the respective DPCH.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RLS" jn the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all the existing and future Radio Link Sets within the UE Context.]

[TDD – If the *DPCH ID* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE or *HS-SICH ID* IE is provided within the RL Information the measurement request shall apply for one existing DPCH per CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this DPCH.]

[TDD – If the *HS-SICH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the *Dedicated Measurement Type* IE is set to "HS-SICH reception quality ", the DRNS shall initiate measurements of the failed, missed and total HS-SICH transmissions on all of the HS-SICH assigned to this UE

Context. If either the failed or missed HS-SICH transmission satisfies the requested report characteristics, the DRNS shall report the result of both failed and missed transmission measurements along with the total number of transmissions.]

Report characteristics

The *Report Characteristics* IE indicates how the reporting of the dedicated measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *CFN* IE is not provided, the DRNS shall report the measurement result immediately in the DEDICATED MEASUREMENT INITIATION RESPONSE message. If the *CFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [26].

If the *Report Characteristics* IE is set to "Periodic" and if the *CFN* IE is not provided, the DRNS shall immediately and periodically initiate the Dedicated Measurement Reporting procedure for this measurement, with a frequency as specified by the *Report Periodicity* IE. If the *CFN* IE is provided, the DRNS shall initiate a Dedicated Measurement Reporting procedure for this measurement at the CFN indicated in the *CFN* IE, and shall repeat this initiation periodically thereafter with a frequency as specified by the *Report Periodicity* IE.. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [26].

If the *Report Characteristics* IE is set to "Event A", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold, as specified by the *Measurement Threshold* IE, and then stays above the thresholdfor the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold, as specified by the *Measurement Threshold* IE, and then stays below the thresholdfor the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises morethan the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE , and only when this rise occurs within the requested rising time specified by the *Measurement Change Time* IE. After reporting this type of event, DRNS shall not initiate the the next C event reporting for the same measurement during the subsequenttime specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event D", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this falls occurs within the requested falling time specified by the *Measurement Change Time* IE. After reporting this type of event, the DRNS shall not initiate the next D event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event E", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the *Measurement Threshold 1* IE and stays above the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the DRNS shall initiate the Dedicated Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity falls below the *Measurement Threshold 2* IE and stays below the threshold for the *Measurement Hysteresis Time* IE, the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the DRNS shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the DRNC 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 DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the *Measurement Threshold 1* IE and stays below the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the DRNS shall initiate the Dedicated Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity rises above the *Measurement Threshold 2* IE and stays above the threshold for the *Measurement Hysteresis Time* IE, the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the DRNS shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is not set to "On –Demand", the DRNS is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object(s) for which a measurement is defined exists any more, the DRNS shall terminate the measurement locally without reporting this to the SRNC.

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 DRNS shall initiate the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

Higher layer filtering

The *Measurement Filter Coefficient* IE indicates how filtering of the dedicated 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, the unit used for M_n is the same unit as the reported unit in the DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn).

$a = 1/2^{(k/2)}$, where k is 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.

Response message

If the DRNS was able to initiate the measurement requested by the SRNS it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message.

In the case in which the *Report Characteristics* IE is set to "On Demand":

- The DRNC shall include the measurement result in the *Dedicated Measurement Value* IE within the DEDICATED MEASUREMENT INITIATION RESPONSE message.

- If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the DEDICATED MEASUREMENT INITIATION RESPONSE message. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26].

- [TDD – If the measurement was made on a particular DPCH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the DPCH ID of that DPCH in the *DPCH ID* IE.]

- [TDD – If the measurement was made on a particular HS-SICH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the ID of that HS-SICH in the *HS-SICH ID* IE.]

8.3.11.3 Unsuccessful Operation
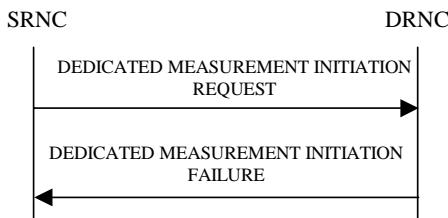
Figure 21: Dedicated Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated for one of the RL/RLS, the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message. The message shall include the same *Measurement ID* IE that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and shall include the *Cause* IE set to an appropriate value.

If the DEDICATED MEASUREMENT INITIATION REQUEST message includes the *Partial Reporting Indicator* IE, the DRNS shall, if partial reporting is supported, separate the unsuccessful measurement initiations from the successful measurement initiations. For the successful measurement initiations on a RL or an RLS, the DRNS shall include the *Successful RL Information* IE or the *Successful RL Set Information* IE for the concerned RL or RLS if the R*eport Characteristics* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message was set to 'On-Demand'. For the unsuccessful measurement initiations, the DRNS shall include the *Individual Cause* IE set to an appropriate value if it differs from the value of the *Cause* IE.

Typical cause values are:

Radio Network Layer Causes:

- Measurement not Supported For The Object

- Measurement Temporarily not Available

Miscellaneous Causes:

- Control Processing Overload

- HW Failure

8.3.11.4 Abnormal Conditions

The allowed combinations of the Dedicated Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the DRNS shall reject the Dedicated Measurement Initiation procedure using the DEDICATED MEASUREMENT INITIATION FAILURE message. .

Table 4: Allowed Dedicated Measurement Type and Report Characteristics Type combinations

Dedicated Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
SIR	X	X	X	X	X	X	X	X	
SIR Error	X	X	X	X	X	X	X	X	
Transmitted Code Power	X	X	X	X	X	X	X	X	
RSCP	X	X	X	X	X	X	X	X	
Rx Timing Deviation	X	X	X	X			X	X	
Round Trip Time	X	X	X	X	X	X	X	X	
Rx Timing Deviation LCR	X	X	X	X			X	X	
HS-SICH Reception Quality	X	X	X	X			X	X	

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. [11] or [14] to be measured on the Dedicated Measurement Object Type received in the DEDICATED MEASUREMENT INITIATION REQUEST message, the DRNS shall reject the Dedicated Measurement Initiation procedure .

If the *CFN* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic" or "On Demand", the DRNS shall reject the Dedicated Measurement Initiation procedure, and the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message .

8.3.12   Dedicated Measurement Reporting

8.3.12.1   General

This procedure is used by the DRNS to report the results of the successfully initiated measurements requested by the SRNS with the Dedicated Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNC may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link.

8.3.12.2   Successful Operation

SRNC   DRNC

DEDICATED MEASUREMENT REPORT
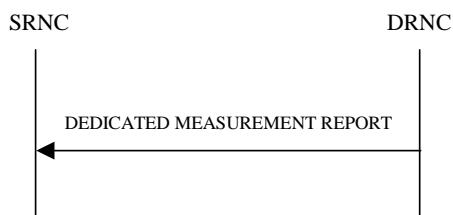
Figure 22: Dedicated Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the DRNS shall initiate the Dedicated Measurement Reporting procedure. If the measurement was initiated (by the Dedicated Measurement Initiation procedure) for multiple dedicated measurement objects, the DRNC may include dedicated measurement values in the *Dedicated Measurement Value Information* IE for multiple objects in the DEDICATED MEASUREMENT REPORT message.

The *Measurement ID* IE shall be set to the Measurement ID provided by the SRNC when initiating the measurement with the Dedicated Measurement Initiation procedure.

If the achieved measurement accuracy does not fulfil the given accuracy requirement specified in ref. [23] and [24], the Measurement not available shall be reported in the *Dedicated Measurement Value Information* IE in the DEDICATED MEASUREMENT REPORT message, otherwise the DRNC shall include the *Dedicated Measurement Value* IE within the *Dedicated Measurement Value Information* IE.

If the CFN Reporting Indicator when initiating the measurement with the Dedicated Measurement Initiation procedure was set to "FN Reporting Required", the DRNC shall include the *CFN* IE in the DEDICATED MEASUREMENT REPORT message. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26].

[TDD – If the measurement was made on a particular DPCH, the DEDICATED MEASUREMENT REPORT message shall include the DPCH ID of that DPCH in the *DPCH ID* IE.]

[TDD – If the measurement was made on a particular HS-SICH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the ID of that HS-SICH in the *HS-SICH ID* IE.]

8.3.12.3 Abnormal Conditions

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9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Measurement ID	M		9.2.1.37		YES	reject
CHOICE *Dedicated Measurement Object Type*	M				YES	reject
>*RL*					–	
>>**RL Information**		1..<maxnoofRLs>			EACH	reject
>>>RL-ID	M		9.2.1.49		–	
>>>DPCH ID	O		9.2.3.3	TDD only	–	
>>>HS-SICH Information		*0..<maxnoofHSSICHs>*		TDD only	GLOBAL	reject
>>>>HS-SICH ID	M		9.2.3.x		–	
>*RLS*				FDD only	–	
>>**RL Set Information**		1..<maxnoofRLSets>			EACH	reject
>>>RL-Set-ID	M		9.2.2.35		–	
>*ALL RL*		NULL			–	
>*ALL RLS*		NULL		FDD only	–	
Dedicated Measurement Type	M		9.2.1.18		YES	reject
Measurement Filter Coefficient	O		9.2.1.36		YES	reject
Report Characteristics	M		9.2.1.48		YES	reject
CFN reporting indicator	M		FN reporting indicator 9.2.1.28A		YES	reject
CFN	O		9.2.1.9		YES	reject
Partial Reporting Indicator	O		9.2.1.41Fa		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs a measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on.

9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Measurement ID	M		9.2.1.37		YES	ignore
CHOICE *Dedicated Measurement Object Type*	O			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>*RL* or *ALL RL*					–	
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>DPCH ID	O		9.2.3.3	TDD only	–	
>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>CFN	O		9.2.1.9	Dedicated Measurement Time Reference	_	
>>>HS-SICH ID	O		9.2.3.x	TDD only	YES	reject
>*RLS* or *ALL RLS*				FDD only	–	
>>RL Set Information		1..<maxnoofRLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.35		–	
>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>CFN	O		9.2.1.9	Dedicated Measurement Time Reference	_	
Criticality Diagnostics	O		9.2.1.13		YES	Ignore

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
Measurement ID	M		9.2.1.37		YES	ignore
CHOICE *Dedicated Measurement Object Type*	M			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>*RL* or *ALL RL*					–	
>>RL Information		1..<*maxnoofRLs*>			EACH	ignore
>>>RL-ID	M		9.2.1.49		–	
>>>DPCH ID	O		9.2.3.3	TDD only	–	
>>>Dedicated Measurement Value Information	M		9.2.1.19A		–	
>>>HS-SICH ID	O		9.2.3.x	TDD only	YES	reject
>*RLS* or *ALL RLS*				FDD only	–	
>>RL Set Information		1..<*maxnoofRLSets*>			EACH	ignore
>>>RL Set ID	M		9.2.2.35		–	
>>>Dedicated Measurement Value Information	M		9.2.1.19A		–	

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

9.2.1.18   Dedicated Measurement Type

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Type			ENUMERATED(SIR, SIR Error, Transmitted Code Power, RSCP, Rx Timing Deviation, Round Trip Time, …, Rx Timing Deviation LCR, Angle Of Arrival LCR, HS-SICH Reception Quality)	RSCP and HS-SICH Receptions Quality areis used by TDD only, Rx Timing Deviation is used by 3.84 TDD only, Rx Timing Deviation LCR is used by 1.28 TDD only, Round Trip Time, SIR Error are used by FDD only. Angle Of Arrival LCR is used by 1.28Mcps TDD only.

NOTE: For definitions of the measurement types refer to ref. [11] and [14].

9.2.1.19   Dedicated Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE *Dedicated Measurement Value*					-	
>*SIR Value*					-	
>>SIR Value	M		INTEGER(0..63)	According to mapping in ref. [23] and [24]	-	
>*SIR Error Value*				FDD Only	-	
>>SIR Error Value	M		INTEGER(0..125)	According to mapping in [23]	-	
>*Transmitted Code Power Value*					-	
>>Transmitted Code Power Value	M		INTEGER(0..127)	According to mapping in ref. [23] and [24] Values 0 to 9 and 123 to 127 shall not be used.	-	
>*RSCP*				TDD Only	-	
>>RSCP	M		INTEGER(0..127)	According to mapping in ref. [24]	-	
>*Rx Timing Deviation Value*				3.84Mcps TDD Only	-	
>>Rx Timing Deviation	M		INTEGER(0..8191)	According to mapping in [24]	-	
>*Round Trip Time*				FDD Only	-	
>>Round Trip Time	M		INTEGER(0..32767)	According to mapping in [23]	-	
>*Additional Dedicated Measurement Values*					-	
>>*Rx Timing Deviation Value LCR*				1.28Mcps TDD Only	YES	reject
>>>Rx Timing Deviation LCR	M		INTEGER(0..511)	According to mapping in [24]	-	
>> *Angle of Arrival Value LCR*				1.28Mcps TDD only	YES	reject
>>> AOA LCR	M		INTEGER(0..719)	According to mapping in [24]	-	
>>> AOA LCR Accuracy Class	M		ENUMER ATED(A, B, C, D, E, F, G, H,...)	According to mapping in [24]	-	
>> HS-SICH reception quality				Applicable to TDD only	–	
>>> HS-SICH reception quality Value		1			YES	reject
>>>>Failed HS-SICH	M		INTEGER (0..20)	According to mapping in [23]	–	
>>>Missed HS-SICH	M		INTEGER (0..20)	According to mapping in [23]	–	
>>>Total HS-SICH	M		INTEGER (0..20)	According to mapping in [23]	–	

9.2.1.39 Measurement Threshold

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE *Measurement Threshold*					-	
>*SIR*					-	
>>SIR	M		INTEGER(0..63)	According to mapping in ref. [23] and [24].	-	
>*SIR Error*				FDD Only	-	
>>SIR Error	M		INTEGER(0..125)	According to mapping in [23]	-	
>*Transmitted Carrier Power*					-	
>>Transmitted Code Power	M		INTEGER(0..127)	According to mapping in ref. [23] and [24].	-	
>*RSCP*				TDD Only	-	
>>RSCP	M		INTEGER(0..127)	According to mapping in ref. [24]	-	
>*Rx Timing Deviation*				Applicable to 3.84Mcps TDD Only	-	
>>Rx Timing Deviation	M		INTEGER(0..8191)	According to mapping in [24]	-	
>*Round Trip Time*				FDD Only	-	
>>Round Trip Time	M		INTEGER(0..32767)	According to mapping in [23]	-	
> $T_{UTRAN-GPS}$ *Measurement Threshold Information*					-	
>> $T_{UTRAN-GPS}$ Measurement Threshold Information	M		9.2.1.59C		YES	reject
> *SFN-SFN Measurement Threshold Information*					-	
>>SFN-SFN Measurement Threshold Information	M		9.2.1.52B		YES	reject
>*Load*					-	
>>Load	M		INTEGER(0..100)	0 is the minimum indicated load, and 100 is the maximum indicated load.	YES	reject
>*Transmitted Carrier Power*					-	
>>Transmitted Carrier Power	M		INTEGER(0..100)	According to mapping in [23] and [24].	YES	reject
>*Received Total Wide Band Power*					-	
>>Received Total Wide Band Power	M		INTEGER(0..621)	According to mapping in [23] and [24].	YES	reject
>*UL Timeslot ISCP*				TDD Only	-	
>>UL Timeslot ISCP	M		INTEGER(0..127)	According to mapping in [24]	YES	reject
>*RT Load*					-	
>>RT Load	M		INTEGER(0..100)		YES	reject
>*NRT Load Information*					-	
>>NRT Load Information	M		INTEGER(0..3)		YES	reject
>Rx Timing				Applicable to		

Deviation LCR				1.28Mcps TDD Only		
>>Rx Timing Deviation LCR	M		INTEGER(0..255)	According to mapping in [24]	YES	Reject
> HS-SICH reception quality				Applicable to TDD Only	–	
>> HS-SICH reception quality	M		INTEGER (0..20)	According to mapping in [23]	YES	reject

9.2.3.3ab   HS-DSCH TDD Information Response

The *HS-DSCH TDD Information Response* IE provides information for HS-DSCH that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information Response		*1..<maxno ofMACdFl ows>*			–	
>HS-DSCH MAC-d Flow ID	M		9.2.1.30O		–	
>Binding ID	O		9.2.1.3		–	
>Transport Layer Address	O		9.2.1.62		–	
>HS-DSCH Initial Capacity Allocation	O		9.2.1.30Na		–	
HS-SCCH Specific Information Response		*0..<maxno ofHSSCC Hcodes>*		Mandatory for 3.84Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23			
>Midamble Shift And Burst Type	M		9.2.3.7			
>TDD Channelisation Code	M		9.2.3.19			
>HS-SICH Information		*1*				
>>HS SICH ID	M		9.2.3.x			
>>Time Slot	M		9.2.3.23			
>>Midamble Shift And Burst Type	M		9.2.3.7			
>>TDD Channelisation Code	M		9.2.3.19			
HS-SCCH Specific Information Response LCR		*0..<maxno ofHSSCC Hcodes>*		Mandatory for 1.28Mcps TDD only	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24a			
>Midamble shift LCR	M		9.2.3.7A			
>First TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a			
>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a			
>HS-SICH Information LCR		*1*				
>>HS SICH ID	M		9.2.3.x			
>>Time Slot LCR	M		9.2.3.24a			
>>Midamble shift LCR	M		9.2.3.7A			
>>TDD Channelisation Code LCR	M		9.2.3.19a			

Range bound	Explanation
maxnoofMACdFlows	Maximum number of MAC-d flows.
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes.

9.2.3.x   HS-SICH ID

The HS-SICH ID identifies unambiguously a HS-SICH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS SICH ID			INTEGER (0..31)	

9.2.3.x   HS-SICH ID

The HS-SICH ID identifies unambiguously a HS-SICH.

9.3.3   PDU Definitions

```
-- ************************************************************
--
-- PDU definitions for RNSAP.
--
-- ************************************************************

RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    Allowed-Rate-Information,
    AlphaValue,
    AntennaColocationIndicator,
    BLER,
    SCTD-Indicator,
    BindingID,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CFN,
    ClosedLoopMode1-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    Closedlooptimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    CNDomainType,
    Cause,
    CellCapabilityContainer-FDD,
    CellCapabilityContainer-TDD,
    CellCapabilityContainer-TDD-LCR,
    CellParameterID,
    ChipOffset,
    CommonMeasurementAccuracy,
    CommonMeasurementType,
```

```
CommonMeasurementValue,
CommonMeasurementValueInformation,
CommonTransportChannelResourcesInitialisationNotRequired,
CongestionCause,
CoverageIndicator,
CriticalityDiagnostics,
D-RNTI,
D-RNTI-ReleaseIndication,
DCH-FDD-Information,
DCH-ID,
DCH-InformationResponse,
DCH-TDD-Information,
DL-DPCH-SlotFormat,
DL-TimeslotISCP,
DL-Power,
DL-PowerBalancing-Information,
DL-PowerBalancing-ActivationIndicator,
DL-PowerBalancing-UpdatedIndicator,
DL-ReferencePowerInformation,
DL-ScramblingCode,
DL-Timeslot-Information,
DL-TimeslotLCR-Information,
DL-TimeSlot-ISCP-Info,
DL-TimeSlot-ISCP-LCR-Information,
DPC-Mode,
DPC-Mode-Change-SupportIndicator,
DPCH-ID,
DL-DPCH-TimingAdjustment,
DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DedicatedMeasurementValueInformation,
DelayedActivation,
DelayedActivationUpdate,
DiversityControlField,
DiversityMode,
DSCH-FDD-Information,
DSCH-FDD-InformationResponse,
DSCH-FlowControlInformation,
DSCH-FlowControlItem,
DSCH-TDD-Information,
DSCH-ID,
DSCH-RNTI,
SchedulingPriorityIndicator,
EnhancedDSCHPC,
EnhancedDSCHPCCounter,
EnhancedDSCHPCIndicator,
EnhancedDSCHPCWnd,
EnhancedDSCHPowerOffset,
Enhanced-PrimaryCPICH-EcNo,
```

```
            FACH-FlowControlInformation,
            FDD-DCHs-to-Modify,
            FDD-DL-ChannelisationCodeNumber,
            FDD-DL-CodeInformation,
            FDD-S-CCPCH-Offset,
            FDD-TPC-DownlinkStepSize,
            FirstRLS-Indicator,
            FNReportingIndicator,
            FrameHandlingPriority,
            FrameOffset,
            GA-AccessPointPosition,
            GA-Cell,

            GA-CellAdditionalShapes,
            HCS-Prio,
            HSDSCH-FDD-Information,
            HSDSCH-FDD-Information-Response,
            HSDSCH-FDD-Update-Information,
            HSDSCH-TDD-Update-Information,
            HSDSCH-Information-to-Modify,
            HSDSCH-MACdFlow-ID,
            HSDSCH-RNTI,
            HSDSCH-TDD-Information,
            HSDSCH-TDD-Information-Response,
            HS-SICH-ID,
            IMSI,
            InformationExchangeID,
            InformationReportCharacteristics,
            InformationType,
            InnerLoopDLPCStatus,
            L3-Information,
            SplitType,
            LengthOfTFCI2,
            LimitedPowerIncrease,
            MaximumAllowedULTxPower,
            MaxNrDLPhysicalchannels,
            MaxNrOfUL-DPCHs,
            MaxNrTimeslots,
            MaxNrULPhysicalchannels,
            MeasurementFilterCoefficient,
            MeasurementID,
            MidambleAllocationMode,
            MidambleShiftAndBurstType,
            MidambleShiftLCR,
            MinimumSpreadingFactor,
            MinUL-ChannelisationCodeLength,
            MultiplexingPosition,
            NeighbouringFDDCellMeasurementInformation,
            NeighbouringTDDCellMeasurementInformation,
            Neighbouring-GSM-CellInformation,
            Neighbouring-UMTS-CellInformation,
            NeighbouringTDDCellMeasurementInformationLCR,
```

```
NrOfDLchannelisationcodes,
PagingCause,
PagingRecordType,
PartialReportingIndicator,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PC-Preamble,
Permanent-NAS-UE-Identity,
PowerAdjustmentType,
PowerOffset,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
Qth-Parameter,
RANAP-RelocationInformation,
RB-Info,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
Received-total-wide-band-power,
RequestedDataValue,
RequestedDataValueInformation,
RL-Specific-DCH-Info,
RxTimingDeviationForTA,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SFN,
Secondary-CCPCH-Info,
Secondary-CCPCH-Info-TDD,
Secondary-LCR-CCPCH-Info-TDD,
SNA-Information,
SpecialBurstScheduling,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
```

```
SecondaryCCPCH-SlotFormat,
SRB-Delay,
SyncCase,
SynchronisationConfiguration,
TDD-ChannelisationCode,
TDD-DCHs-to-Modify,
TDD-DL-Code-Information,
TDD-DPCHOffset,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TDD-ChannelisationCodeLCR,
TDD-DL-Code-LCR-Information,
TDD-UL-Code-Information,
TDD-UL-Code-LCR-Information,
TFCI-Coding,
TFCI-PC-SupportIndicator,
TFCI-Presence,
TFCI-SignallingMode,
TimeSlot,
TimeSlotLCR,
TimingAdvanceApplied,
ToAWE,
ToAWS,
TrafficClass,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
Transmission-Gap-Pattern-Sequence-Information,
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TSTD-Indicator,
TSTD-Support-Indicator,
UARFCN,
UC-ID,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-PhysCH-SF-Variation,
UL-ScramblingCode,
UL-Timeslot-Information,
UL-TimeslotLCR-Information,
UL-TimeSlot-ISCP-Info,
UL-TimeSlot-ISCP-LCR-Info,
URA-ID,
URA-Information,
USCH-ID,
USCH-Information,
UL-Synchronisation-Parameters-LCR,
```

```
        TDD-DL-DPCH-TimeSlotFormat-LCR,
        TDD-UL-DPCH-TimeSlotFormat-LCR,
        MAChs-ResetIndicator
FROM RNSAP-IEs

        PrivateIE-Container{},
        ProtocolExtensionContainer{},
        ProtocolIE-ContainerList{},
        ProtocolIE-ContainerPair{},
        ProtocolIE-ContainerPairList{},
        ProtocolIE-Container{},
        ProtocolIE-Single-Container{},
        RNSAP-PRIVATE-IES,
        RNSAP-PROTOCOL-EXTENSION,
        RNSAP-PROTOCOL-IES,
        RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers

        maxNoOfDSCHs,
        maxNoOfUSCHs,
        maxNrOfCCTrCHs,
        maxNrOfDCHs,
        maxNrOfTS,
        maxNrOfDPCHs,
        maxNrOfRLs,
        maxNrOfRLSets,
        maxNrOfRLSets-1,
        maxNrOfRLs-1,
        maxNrOfRLs-2,
        maxNrOfULTs,
        maxNrOfDLTs,
        maxResetContext,
        maxNoOfDSCHsLCR,
        maxNoOfUSCHsLCR,
        maxNrOfCCTrCHsLCR,
        maxNrOfTsLCR,
        maxNrOfDLTsLCR,
        maxNrOfULTsLCR,
        maxNrOfDPCHsLCR,
        maxNrOfLCRTDDNeighboursPerRNC,
        maxNrOfMeasNCell,
        maxNrOfMACdFlows,
        maxNrOfHSSICHs,

        id-Active-Pattern-Sequence-Information,
        id-AdjustmentRatio,
        id-AllowedQueuingTime,
        id-AntennaColocationIndicator,
        id-BindingID,
        id-C-ID,
        id-C-RNTI,
```

```
id-CFN,
id-CFNReportingIndicator,
id-CN-CS-DomainIdentifier,
id-CN-PS-DomainIdentifier,
id-Cause,
id-CauseLevel-RL-AdditionFailureFDD,
id-CauseLevel-RL-AdditionFailureTDD,
id-CauseLevel-RL-ReconfFailure,
id-CauseLevel-RL-SetupFailureFDD,
id-CauseLevel-RL-SetupFailureTDD,
id-CCTrCH-InformationItem-RL-FailureInd,
id-CCTrCH-InformationItem-RL-RestoreInd,
id-CellCapabilityContainer-FDD,
id-CellCapabilityContainer-TDD,
id-CellCapabilityContainer-TDD-LCR,
id-ClosedLoopMode1-SupportIndicator,
id-ClosedLoopMode2-SupportIndicator,
id-CNOriginatedPage-PagingRqst,
id-CommonMeasurementAccuracy,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rqst,
id-CommonMeasurementObjectType-CM-Rsp,
id-CommonMeasurementType,
id-CommonTransportChannelResourcesInitialisationNotRequired,
id-CongestionCause,
id-CoverageIndicator,
id-CriticalityDiagnostics,
id-D-RNTI,
id-D-RNTI-ReleaseIndication,
id-DCHs-to-Add-FDD,
id-DCHs-to-Add-TDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRqstFDD,
id-DCH-DeleteList-RL-ReconfRqstTDD,
id-DCH-FDD-Information,
id-DCH-TDD-Information,
id-FDD-DCHs-to-Modify,
id-TDD-DCHs-to-Modify,
id-DCH-InformationResponse,
id-DCH-Rate-InformationItem-RL-CongestInd,
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
```

```
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-FDD-DL-CodeInformation,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Information-RL-SetupRqstFDD,
id-DL-DPCH-Information-RL-ReconfRqstFDD,
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
id-DL-DPCH-InformationItem-RL-SetupRspTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
id-DL-DPCH-TimingAdjustment,
id-DL-Physical-Channel-Information-RL-SetupRqstTDD,
id-DL-PowerBalancing-Information,
id-DL-PowerBalancing-ActivationIndicator,
id-DL-PowerBalancing-UpdatedIndicator,
id-DL-ReferencePowerInformation,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rqst,
id-DL-ReferencePowerInformation-DL-PC-Rqst,
id-DRXCycleLengthCoefficient,
id-DedicatedMeasurementObjectType-DM-Fail,
id-DedicatedMeasurementObjectType-DM-Fail-Ind,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DelayedActivation,
id-DelayedActivationList-RL-ActivationCmdFDD,
id-DelayedActivationList-RL-ActivationCmdTDD,
id-DelayedActivationInformation-RL-ActivationCmdFDD,
id-DelayedActivationInformation-RL-ActivationCmdTDD,
id-DPC-Mode,
id-DPC-Mode-Change-SupportIndicator,
id-DSCHs-to-Add-FDD,
id-DSCHs-to-Add-TDD,
id-DSCH-DeleteList-RL-ReconfPrepTDD,
id-DSCH-Delete-RL-ReconfPrepFDD,
id-DSCH-FDD-Information,
id-DSCH-InformationListIE-RL-AdditionRspTDD,
id-DSCH-InformationListIEs-RL-SetupRspTDD,
id-DSCH-TDD-Information,
id-DSCH-FDD-InformationResponse,
id-DSCH-ModifyList-RL-ReconfPrepTDD,
id-DSCH-Modify-RL-ReconfPrepFDD,
id-DSCH-RNTI,
```

```
        id-DSCHsToBeAddedOrModified-FDD,
        id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,
        id-EnhancedDSCHPC,
        id-EnhancedDSCHPCIndicator,
        id-Enhanced-PrimaryCPICH-EcNo,
        id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD,
        id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD,
        id-GA-Cell,
        id-GA-CellAdditionalShapes,
        id-HCS-Prio,
        id-HSDSCH-FDD-Information,
        id-HSDSCH-FDD-Information-Response,
        id-HSDSCH-FDD-Information-to-Add,
        id-HSDSCH-FDD-Information-to-Delete,
        id-HSDSCH-FDD-Update-Information,
        id-HSDSCH-TDD-Update-Information,
        id-HSDSCH-Information-to-Modify,
        id-HSDSCH-RNTI,
        id-HSDSCH-TDD-Information,
        id-HSDSCH-TDD-Information-Response,
        id-HSDSCH-TDD-Information-Response-LCR,
        id-HSDSCH-TDD-Information-to-Add,
        id-HSDSCH-TDD-Information-to-Delete,
        id-HSPDSCH-RL-ID,
        id-HSSICH-Info-DM-Rprt,
        id-HSSICH-Info-DM-Rqst,
        id-HSSICH-Info-DM-Rsp,
        id-IMSI,
        id-InformationExchangeID,
        id-InformationExchangeObjectType-InfEx-Rprt,
        id-InformationExchangeObjectType-InfEx-Rqst,
        id-InformationExchangeObjectType-InfEx-Rsp,
        id-InformationReportCharacteristics,
        id-InformationType,
        id-InnerLoopDLPCStatus,
        id-SplitType,
        id-LengthOfTFCI2,
        id-L3-Information,
        id-AdjustmentPeriod,
        id-MaxAdjustmentStep,
        id-MeasurementFilterCoefficient,
        id-MeasurementID,
        id-PagingArea-PagingRqst,
        id-PartialReportingIndicator,
        id-PDSCH-RL-ID,
        id-Permanent-NAS-UE-Identity,
        id-FACH-FlowControlInformation,
        id-PowerAdjustmentType,
        id-PrimCCPCH-RSCP-DL-PC-RqstTDD,
        id-PropagationDelay,
        id-Qth-Parameter,
```

```
id-RANAP-RelocationInformation,
id-ResetIndicator,
id-RL-Information-PhyChReconfRqstFDD,
id-RL-Information-PhyChReconfRqstTDD,
id-RL-Information-RL-AdditionRqstFDD,
id-RL-Information-RL-AdditionRqstTDD,
id-RL-Information-RL-DeletionRqst,
id-RL-Information-RL-FailureInd,
id-RL-Information-RL-ReconfPrepFDD,
id-RL-Information-RL-RestoreInd,
id-RL-Information-RL-SetupRqstFDD,
id-RL-Information-RL-SetupRqstTDD,
id-RL-InformationItem-RL-CongestInd,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rqst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-PreemptRequiredInd,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-CongestInd,
id-RL-InformationList-RL-AdditionRqstFDD,
id-RL-InformationList-RL-DeletionRqst,
id-RL-InformationList-RL-PreemptRequiredInd,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-ReconfReadyTDD,
id-RL-InformationResponse-RL-ReconfRspTDD,
id-RL-InformationResponse-RL-SetupRspTDD,
id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReadyFDD,
id-RL-InformationResponseItem-RL-ReconfRspFDD,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReadyFDD,
id-RL-InformationResponseList-RL-ReconfRspFDD,
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RL-ReconfigurationFailure-RL-ReconfFail,
id-RL-ReconfigurationReadyTDD-RL-Information,
id-RL-ReconfigurationRequestFDD-RL-InformationList,
id-RL-ReconfigurationRequestFDD-RL-Information-IEs,
id-RL-ReconfigurationRequestTDD-RL-Information,
id-RL-Specific-DCH-Info,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-Set-InformationItem-DM-Rqst,
id-RL-Set-InformationItem-DM-Rsp,
id-RL-Set-Information-RL-FailureInd,
id-RL-Set-Information-RL-RestoreInd,
id-RL-Set-Successful-InformationItem-DM-Fail,
id-RL-Set-Unsuccessful-InformationItem-DM-Fail,
id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind,
id-RL-Successful-InformationItem-DM-Fail,
id-RL-Unsuccessful-InformationItem-DM-Fail,
```

```
id-RL-Unsuccessful-InformationItem-DM-Fail-Ind,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporing-Object-RL-RestoreInd,
id-RNC-ID,
id-RxTimingDeviationForTA,
id-S-RNTI,
id-SAI,
id-SFN,
id-SFNReportingIndicator,
id-SNA-Information,
id-SRNC-ID,
id-SSDT-CellIDforEDSCHPC,
id-STTD-SupportIndicator,
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-TFCI-PC-SupportIndicator,
id-timeSlot-ISCP,
id-TimeSlot-RL-SetupRspTDD,
id-TransportBearerID,
id-TransportBearerRequestIndicator,
id-TransportLayerAddress,
id-UC-ID,
id-ContextInfoItem-Reset,
id-Transmission-Gap-Pattern-Sequence-Information,
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
id-UL-Physical-Channel-Information-RL-SetupRqstTDD,
```

```
      id-UL-SIRTarget,
      id-URA-Information,
      id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
      id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD,
      id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
      id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
      id-USCHs-to-Add,
      id-USCH-DeleteList-RL-ReconfPrepTDD,
      id-USCH-InformationListIE-RL-AdditionRspTDD,
      id-USCH-InformationListIEs-RL-SetupRspTDD,
      id-USCH-Information,
      id-USCH-ModifyList-RL-ReconfPrepTDD,
      id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,
      id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD,
      id-RL-LCR-InformationResponse-RL-SetupRspTDD,
      id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD,
      id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD,
      id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD,
      id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD,
      id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD,
      id-USCH-LCR-InformationListIEs-RL-SetupRspTDD,
      id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD,
      id-RL-LCR-InformationResponse-RL-AdditionRspTDD,
      id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD,
      id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD,
      id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD,
      id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD,
      id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD,
      id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD,
      id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD,
      id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD,
      id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD,
      id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD,
      id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD,
      id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD,
      id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD,
      id-TSTD-Support-Indicator-RL-SetupRqstTDD,
      id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD,
      id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD,
      id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD,
      id-neighbouringTDDCellMeasurementInformationLCR,
      id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD,
      id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD,
      id-TrafficClass,
      id-UL-Synchronisation-Parameters-LCR,
      id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD,
      id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD,
      id-MAChs-ResetIndicator

FROM RNSAP-Constants;
```

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

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

DedicatedMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID                 CRITICALITY reject  TYPE MeasurementID                PRESENCE mandatory   } |
    { ID id-DedicatedMeasurementObjectType-DM-Rqst  CRITICALITY reject  TYPE DedicatedMeasurementObjectType-DM-Rqst PRESENCE mandatory   } |
    -- This IE represents both the Dedicated Measurement Object Type IE and the choice based on the Dedicated Measurement Object Type
    -- as described in the tabular message format in subclause 9.1.
    { ID id-DedicatedMeasurementType          CRITICALITY reject  TYPE DedicatedMeasurementType     PRESENCE mandatory   } |
    { ID id-MeasurementFilterCoefficient          CRITICALITY reject  TYPE MeasurementFilterCoefficient     PRESENCE optional } |
    { ID id-ReportCharacteristics          CRITICALITY reject  TYPE ReportCharacteristics         PRESENCE mandatory   }|
    { ID id-CFNReportingIndicator          CRITICALITY reject  TYPE FNReportingIndicator          PRESENCE mandatory   }|
    { ID id-CFN                            CRITICALITY reject  TYPE CFN                            PRESENCE optional    },
    ...
}

DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
    rL                  RL-DM-Rqst,
    rLS                 RL-Set-DM-Rqst,
    allRL               All-RL-DM-Rqst,
    allRLS              All-RL-Set-DM-Rqst,
    ...
}

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

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

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

RL-Information-DM-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rqst     CRITICALITY reject  TYPE RL-InformationItem-DM-Rqst     PRESENCE mandatory   }
}

RL-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-ID                   RL-ID,
```

```
    dPCH-ID                        DPCH-ID       OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { {RL-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSSICH-Info-DM-Rqst      CRITICALITY reject          EXTENSION   HSSICH-Info-DM-Rqst                    PRESENCE optional},
    -- TDD only
    ...
}

HSSICH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID

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

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

RL-Set-InformationList-DM-Rqst                   ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-Rqst-
IEs} }

RL-Set-Information-DM-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rqst      CRITICALITY reject  TYPE RL-Set-InformationItem-DM-Rqst      PRESENCE mandatory   }
}

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

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

All-RL-DM-Rqst ::= NULL

All-RL-Set-DM-Rqst ::= NULL

DedicatedMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-PartialReportingIndicator      CRITICALITY ignore          EXTENSION   PartialReportingIndicator                    PRESENCE optional },
    ...
}

-- ************************************************************
--
```

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

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

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

DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
    rLs                    RL-DM-Rsp,
    rLS                    RL-Set-DM-Rsp,
    allRL                  RL-DM-Rsp,
    allRLS                 RL-Set-DM-Rsp,
    ...
}

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

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

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

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

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

RL-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rsp      CRITICALITY ignore  TYPE RL-InformationItem-DM-Rsp    PRESENCE mandatory   }
}
```

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

RL-InformationItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM-Rsp          CRITICALITY reject          EXTENSION   HS-SICH-ID      PRESENCE optional},
    -- TDD only
    ...
}

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

RL-Set-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rsp      CRITICALITY ignore  TYPE RL-Set-InformationItem-DM-Rsp     PRESENCE mandatory   }
}

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

RL-Set-InformationItem-DM-Rspns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

DedicatedMeasurementInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
```

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

DedicatedMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DedicatedMeasurementObjectType-DM-Fail  CRITICALITY ignore  EXTENSION DedicatedMeasurementObjectType-DM-Fail PRESENCE optional },
    ...
}

DedicatedMeasurementObjectType-DM-Fail ::= CHOICE {
    rL                  RL-DM-Fail,
    rLS                 RL-Set-DM-Fail,
    allRL               RL-DM-Fail,
    allRLS              RL-Set-DM-Fail,
    ...
}

RL-DM-Fail ::= SEQUENCE {
    rL-unsuccessful-InformationRespList-DM-Fail     RL-Unsuccessful-InformationRespList-DM-Fail,
    rL-successful-InformationRespList-DM-Fail       RL-Successful-InformationRespList-DM-Fail       OPTIONAL,
    iE-Extensions                   ProtocolExtensionContainer { { RLItem-DM-Fail-ExtIEs} } OPTIONAL,
    ...
}

RLItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-DM-Fail ::= SEQUENCE {
    rL-Set-unsuccessful-InformationRespList-DM-Fail RL-Set-Unsuccessful-InformationRespList-DM-Fail,
    rL-Set-successful-InformationRespList-DM-Fail   RL-Set-Successful-InformationRespList-DM-Fail       OPTIONAL,
    iE-Extensions                   ProtocolExtensionContainer { { RL-SetItem-DM-Fail-ExtIEs} } OPTIONAL,
    ...
}

RL-SetItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Unsuccessful-InformationRespList-DM-Fail         ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Unsuccessful-
InformationResp-DM-Fail-IEs} }

RL-Unsuccessful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Unsuccessful-InformationItem-DM-Fail    CRITICALITY ignore  TYPE RL-Unsuccessful-InformationItem-DM-Fail    PRESENCE mandatory   }
}

RL-Unsuccessful-InformationItem-DM-Fail ::= SEQUENCE {
    rL-ID                   RL-ID,
    individualcause         Cause   OPTIONAL,
```

```
    iE-Extensions               ProtocolExtensionContainer { {RL-Unsuccessful-InformationItem-DM-Fail-ExtIEs} } OPTIONAL,
    ...
}

RL-Unsuccessful-InformationItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Successful-InformationRespList-DM-Fail           ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-Successful-
InformationResp-DM-Fail-IEs} }

RL-Successful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Successful-InformationItem-DM-Fail      CRITICALITY ignore  TYPE RL-Successful-InformationItem-DM-Fail    PRESENCE mandatory   }
}

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

RL-Successful-InformationItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-Unsuccessful-InformationRespList-DM-Fail           ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-
Unsuccessful-InformationResp-DM-Fail-IEs} }

RL-Set-Unsuccessful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Unsuccessful-InformationItem-DM-Fail    CRITICALITY ignore  TYPE RL-Set-Unsuccessful-InformationItem-DM-Fail     PRESENCE mandatory
    }
}

RL-Set-Unsuccessful-InformationItem-DM-Fail ::= SEQUENCE {
    rL-Set-ID                   RL-Set-ID,
    individualcause             Cause      OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { {RL-Set-Unsuccessful-InformationItem-DM-Failns-ExtIEs} } OPTIONAL,
    ...
}

RL-Set-Unsuccessful-InformationItem-DM-Failns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-Successful-InformationRespList-DM-Fail              ::= SEQUENCE (SIZE (1..maxNrOfRLSets-1)) OF ProtocolIE-Single-Container { {RL-Set-
Successful-InformationResp-DM-Fail-IEs} }

RL-Set-Successful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
```

```
        { ID id-RL-Set-Successful-InformationItem-DM-Fail        CRITICALITY ignore  TYPE RL-Set-Successful-InformationItem-DM-Fail    PRESENCE mandatory
        }
}

RL-Set-Successful-InformationItem-DM-Fail ::= SEQUENCE {
    rL-Set-ID                         RL-Set-ID,
    dedicatedMeasurementValue         DedicatedMeasurementValue,
    cFN                               CFN                            OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer { {RL-Set-Successful-InformationItem-DM-Failns-ExtIEs} } OPTIONAL,
    ...
}

RL-Set-Successful-InformationItem-DM-Failns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

DedicatedMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID                   CRITICALITY ignore  TYPE MeasurementID                PRESENCE mandatory   } |
    { ID id-DedicatedMeasurementObjectType-DM-Rprt  CRITICALITY ignore  TYPE DedicatedMeasurementObjectType-DM-Rprt PRESENCE mandatory   },
    ...
}

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
    rLs               RL-DM-Rprt,
    rLS               RL-Set-DM-Rprt,
    allRL             RL-DM-Rprt,
    allRLS            RL-Set-DM-Rprt,
    ...
}

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

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

```
RL-Set-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 RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

RL-Information-DM-Rprt-IEs RNSAP-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,
    dedicatedMeasurementValueInformation    DedicatedMeasurementValueInformation,
    iE-Extensions             ProtocolExtensionContainer { {RL-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM-Rprt        CRITICALITY reject           EXTENSION   HS-SICH-ID      PRESENCE optional},
    -- TDD only
    ...
}

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

RL-Set-Information-DM-Rprt-IEs RNSAP-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,
    dedicatedMeasurementValueInformation    DedicatedMeasurementValueInformation,
    iE-Extensions             ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
    ...
}

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

DedicatedMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
```

```
}
```

9.3.4   Information Element Definitions

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

RNSAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    maxCodeNumComp-1,
    maxNrOfFACHs,
    maxFACHCountPlus1,
    maxIBSEG,
    maxNoOfDSCHs,
    maxNoOfDSCHs-1,
    maxNoOfUSCHs,
    maxNoTFCIGroups,
    maxNoCodeGroups,
    maxNrOfDCHs,
    maxNrOfDL-Codes,
    maxNrOfDLTs,
    maxNrOfDLTsLCR,
    maxNrOfDPCHs,
    maxNrOfDPCHsLCR,
    maxNrOfErrors,
    maxNrOfFDDNeighboursPerRNC,
    maxNrOfMACcshSDU-Length,
    maxNrOfNeighbouringRNCs,
    maxNrOfTDDNeighboursPerRNC,
    maxNrOfLCRTDDNeighboursPerRNC,
    maxNrOfTS,
    maxNrOfULTs,
    maxNrOfULTsLCR,
    maxNrOfGSMNeighboursPerRNC,
    maxRateMatching,
    maxNrOfPoints,
    maxNoOfRB,
    maxNrOfRLs,
    maxNrOfTFCs,
    maxNrOfTFs,
    maxCTFC,
    maxRNCinURA-1,
```

```
     maxNrOfSCCPCHs,
     maxTFCI1Combs,
     maxTFCI2Combs,
     maxTFCI2Combs-1,
     maxTGPS,
     maxTTI-Count,
     maxNoGPSTypes,
     maxNoSat,
     maxNrOfSNAs,
     maxNrOfHARQProc,
     maxNrOfHSSCCHCodes,
     maxNrOfMACdFlows,
     maxNrOfMACdFlows-1,
     maxNrOfPDUIndexes,
     maxNrOfPDUIndexes-1,
     maxNrOfPrioQueues,
     maxNrOfPrioQueues-1,

     id-Allowed-Rate-Information,
     id-AntennaColocationIndicator,
     id-BindingID,
     id-Cell-Capacity-Class-Value,
     id-CellCapabilityContainer-FDD,
     id-CellCapabilityContainer-TDD,
     id-CellCapabilityContainer-TDD-LCR,
     id-CoverageIndicator,
     id-DPC-Mode-Change-SupportIndicator,
     id-DSCH-Specific-FDD-Additional-List,
     id-GERAN-Cell-Capability,
     id-GERAN-Classmark,
     id-Guaranteed-Rate-Information,
     id-HCS-Prio,
     id-Load-Value,
     id-Load-Value-IncrDecrThres,
     id-Neighbouring-GSM-CellInformation,
     id-Neighbouring-UMTS-CellInformationItem,
     id-neighbouring-LCR-TDD-CellInformation,
     id-NRT-Load-Information-Value,
     id-NRT-Load-Information-Value-IncrDecrThres,
     id-OnModification,
     id-Received-Total-Wideband-Power-Value,
     id-Received-Total-Wideband-Power-Value-IncrDecrThres,
     id-RT-Load-Value,
     id-RT-Load-Value-IncrDecrThres,
     id-SFNSFNMeasurementThresholdInformation,
     id-SNA-Information,
     id-TrafficClass,
     id-Transmitted-Carrier-Power-Value,
     id-Transmitted-Carrier-Power-Value-IncrDecrThres,
     id-TUTRANGPSMeasurementThresholdInformation,
     id-UL-Timeslot-ISCP-Value,
```

```
        id-UL-Timeslot-ISCP-Value-IncrDecrThres,
        maxNrOfLevels,
        maxNrOfMeasNCell,
        maxNrOfMeasNCell-1,
        id-MessageStructure,
        id-EnhancedDSCHPC,
        id-RestrictionStateIndicator,
        id-Rx-Timing-Deviation-Value-LCR,
        id-TransportLayerAddress,
        id-TypeOfError,
        id-Angle-Of-Arrival-Value-LCR,
        id-IPDL-TDD-ParametersLCR,
        id-DSCH-InitialWindowSize,
        id-HS-SICH-Reception-Quality,
        id-HS-SICH-Reception-Quality-Measurement-Value

FROM RNSAP-Constants

        Criticality,
        ProcedureID,
        ProtocolIE-ID,
        TransactionID,
        TriggeringMessage
FROM RNSAP-CommonDataTypes

        ProtocolIE-Single-Container{},
        ProtocolExtensionContainer{},
        RNSAP-PROTOCOL-IES,
        RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;
```

```
-- D
DATA-ID ::= INTEGER (0..3)

DCH-FDD-Information      ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem

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

DCH-FDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item

DCH-Specific-FDD-Item ::=    SEQUENCE {
    dCH-ID                             DCH-ID,
    trCH-SrcStatisticsDescr            TrCH-SrcStatisticsDescr,
    ul-transportFormatSet              TransportFormatSet,
    dl-transportFormatSet              TransportFormatSet,
    ul-BLER                            BLER,
    dl-BLER                            BLER,
    allocationRetentionPriority        AllocationRetentionPriority,
    frameHandlingPriority              FrameHandlingPriority,
    qE-Selector                        QE-Selector,
    dRACControl                        DRACControl,
    iE-Extensions                      ProtocolExtensionContainer { {DCH-FDD-SpecificItem-ExtIEs} } OPTIONAL,
    ...
}

DCH-FDD-SpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Guaranteed-Rate-Information    CRITICALITY ignore  EXTENSION Guaranteed-Rate-Information     PRESENCE optional }|
    { ID id-TrafficClass        CRITICALITY ignore  EXTENSION TrafficClass  PRESENCE mandatory},
    ...
}

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

DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem

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

```
    ...
}

DCH-InformationResponseItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Allowed-Rate-Information        CRITICALITY ignore  EXTENSION Allowed-Rate-Information     PRESENCE optional },
    ...
}

DCH-TDD-Information     ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem

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

DCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item

DCH-Specific-TDD-Item ::=   SEQUENCE {
    dCH-ID                             DCH-ID,
    ul-cCTrCH-ID                       CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID                       CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    trCH-SrcStatisticsDescr            TrCH-SrcStatisticsDescr,
    ul-transportFormatSet              TransportFormatSet,
    dl-transportFormatSet              TransportFormatSet,
    ul-BLER                            BLER,
    dl-BLER                            BLER,
    allocationRetentionPriority        AllocationRetentionPriority,
    frameHandlingPriority              FrameHandlingPriority,
    qE-Selector                        QE-Selector          OPTIONAL,
    -- This IE shall be present if DCH is part of set of Co-ordinated DCHs
    iE-Extensions                      ProtocolExtensionContainer { {DCH-Specific-TDD-Item-ExtIEs} } OPTIONAL,
    ...
}

DCH-Specific-TDD-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Guaranteed-Rate-Information     CRITICALITY ignore  EXTENSION Guaranteed-Rate-Information     PRESENCE optional }|
    { ID id-TrafficClass        CRITICALITY ignore  EXTENSION TrafficClass  PRESENCE mandatory},
    ...
}

DedicatedMeasurementType ::= ENUMERATED {
    sir,
```

```
    sir-error,
    transmitted-code-power,
    rSCP,
    rx-timing-deviation,
    round-trip-time,
    ...,
    rx-timing-deviation-LCR,
    angle-Of-Arrival-LCR,
    hs-sich-quality
}

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value               SIR-Value,
    sIR-ErrorValue          SIR-Error-Value,
    transmittedCodePowerValue   Transmitted-Code-Power-Value,
    rSCP                    RSCP-Value, -- TDD only
    rxTimingDeviationValue  Rx-Timing-Deviation-Value,  -- 3.84Mcps TDD only
    roundTripTime           Round-Trip-Time-Value,  -- FDD only
    ...,
    extension-DedicatedMeasurementValue     Extension-DedicatedMeasurementValue
}

Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}

Extension-DedicatedMeasurementValueIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Rx-Timing-Deviation-Value-LCR   CRITICALITY reject  TYPE Rx-Timing-Deviation-Value-LCR   PRESENCE mandatory }|
    { ID id-Angle-Of-Arrival-Value-LCR  CRITICALITY reject  TYPE Angle-Of-Arrival-Value-LCR PRESENCE mandatory } |
    { ID id-HS-SICH-Reception-Quality   CRITICALITY reject  TYPE HS-SICH-Reception-Quality-Value  PRESENCE mandatory },
    ...
}
```

```
-- H

HARQ-FDD-InfoList ::= SEQUENCE (SIZE (1..maxNrOfHARQProc)) OF HARQ-FDD-InfoItem

HARQ-FDD-InfoItem ::= SEQUENCE {
    process-Memory-Size                 INTEGER (1..172800,...),
    iE-Extensions                       ProtocolExtensionContainer { { HARQ-FDD-InfoItem-ExtIEs } }        OPTIONAL,
    ...
}

HARQ-FDD-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HARQ-TDD-InfoList ::= SEQUENCE (SIZE (1..maxNrOfHARQProc)) OF HARQ-TDD-InfoItem

HARQ-TDD-InfoItem ::= SEQUENCE {
    process-Memory-Size                 INTEGER (1..168960,...),
    iE-Extensions                       ProtocolExtensionContainer { { HARQ-TDD-InfoItem-ExtIEs } }        OPTIONAL,
    ...
}

HARQ-TDD-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HCS-Prio    ::= INTEGER (0..7)
-- 0 = lowest priority, ...7 = highest priority

HSDSCH-FDD-Information ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-Info           HSDSCH-MACdFlow-Specific-InfoList,
    uE-Capabilities-InfoFDD                 UE-Capabilities-InfoFDD,
    hARQ-FDD-Info                           HARQ-FDD-InfoList,
    cqiFeedback-CycleK                      CQI-Feedback-Cycle,
    cqiRepetitionFactor                     CQI-RepetitionFactor        OPTIONAL,
    -- This IE shall be present if the CQI Feedback Cycle k is greater than 0
    cqiPowerOffset                          CQI-Power-Offset,
    ackNackRepetitionFactor                 AckNack-RepetitionFactor,
    ackPowerOffset                          Ack-Power-Offset,
    nackPowerOffset                         Nack-Power-Offset,
    hsscch-PowerOffset                      HSSCCH-PowerOffset          OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs } }        OPTIONAL,
    ...
}

HSDSCH-FDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-InfoList-Response      HSDSCH-MACdFlow-Specific-InfoList-Response,
```

```
    hSSCCH-Specific-InfoList-Response              HSSCCH-FDD-Specific-InfoList-Response,
    measurement-Power-Offset                       Measurement-Power-Offset        OPTIONAL,
    iE-Extensions                                  ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }          OPTIONAL,
    ...
}

HSDSCH-FDD-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-Information-to-Modify ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-InfoList-to-Modify    HSDSCH-MACdFlow-Specific-InfoList-to-Modify        OPTIONAL,
    cqiFeedback-CycleK                             CQI-Feedback-Cycle              OPTIONAL,  -- For FDD only
    cqiRepetitionFactor                            CQI-RepetitionFactor            OPTIONAL,  -- For FDD only
    ackNackRepetitionFactor                        AckNack-RepetitionFactor        OPTIONAL,  -- For FDD only
    cqiPowerOffset                                 CQI-Power-Offset                OPTIONAL,  -- For FDD only
    ackPowerOffset                                 Ack-Power-Offset                OPTIONAL,  -- For FDD only
    nackPowerOffset                                Nack-Power-Offset               OPTIONAL,  -- For FDD only
    hsscch-PowerOffset                             HSSCCH-PowerOffset              OPTIONAL,  -- Only for FDD
    iE-Extensions                                  ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs } }        OPTIONAL,
    ...
}

HSDSCH-Information-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)

HSDSCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem

HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    hSDSCH-MACdFlow-ID           HSDSCH-MACdFlow-ID,
    allocationRetentionPriority  AllocationRetentionPriority,
    trafficClass                 TrafficClass,
    bindingID                    BindingID                         OPTIONAL,
    transportLayerAddress        TransportLayerAddress             OPTIONAL,
    priorityQueue-Info           PriorityQueue-InfoList,
    iE-Extensions                ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs } }     OPTIONAL,
    ...
}

HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-Response

HSDSCH-MACdFlow-Specific-InfoItem-Response ::= SEQUENCE {
    hSDSCH-MACdFlow-ID           HSDSCH-MACdFlow-ID,
    bindingID                    BindingID                         OPTIONAL,
```

```
    transportLayerAddress             TransportLayerAddress                    OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation  HSDSCH-Initial-Capacity-Allocation     OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-Response-ExtIEs } }      OPTIONAL,
    ...
}

HSDSCH-MACdFlow-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    hSDSCH-MACdFlow-ID                HSDSCH-MACdFlow-ID,
    allocationRetentionPriority       AllocationRetentionPriority              OPTIONAL,
    transportBearerRequestIndicator   TransportBearerRequestIndicator,
    trafficClass                      TrafficClass                             OPTIONAL,
    bindingID                         BindingID                                OPTIONAL,
    transportLayerAddress             TransportLayerAddress                    OPTIONAL,
    priorityQueue-Info-to-Modify      PriorityQueue-InfoList-to-Modify         OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs } }       OPTIONAL,
    ...
}

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-Initial-Capacity-Allocation::= SEQUENCE (SIZE (1..16)) OF HSDSCH-Initial-Capacity-AllocationItem

HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator     SchedulingPriorityIndicator,
    maximum-MACdPDU-Size            MACdPDU-Size,
    hSDSCH-InitialWindowSize        HSDSCH-InitialWindowSize,
    iE-Extensions                   ProtocolExtensionContainer { {HSDSCH-Initial-Capacity-AllocationItem-ExtIEs} } OPTIONAL,
    ...
}

HSDSCH-Initial-Capacity-AllocationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-InitialWindowSize          ::= INTEGER (1..2047)
-- Number of MAC-d PDUs.
-- 2047 = Unlimited number of MAC-d PDUs

HSDSCH-RNTI ::= INTEGER (0..65535)

HSDSCH-TDD-Information ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-Info          HSDSCH-MACdFlow-Specific-InfoList,
    uE-Capabilities-InfoTDD                UE-Capabilities-InfoTDD,
```

```
    hARQ-TDD-InfoList                           HARQ-TDD-InfoList,
    iE-Extensions                               ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs } }        OPTIONAL,
    ...
}


HSDSCH-TDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}


HSDSCH-TDD-Information-Response ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-InfoList-Response  HSDSCH-MACdFlow-Specific-InfoList-Response,
    hSSCCH-TDD-Specific-InfoList-Response       HSSCCH-TDD-Specific-InfoList-Response                OPTIONAL,
    hSSCCH-TDD-Specific-InfoList-Response-LCR    HSSCCH-TDD-Specific-InfoList-Response-LCR           OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } }        OPTIONAL,
    ...
}


HSDSCH-TDD-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}


HSSCCH-FDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-FDD-Specific-InfoItem-Response

HSSCCH-FDD-Specific-InfoItem-Response ::= SEQUENCE {
    code-Number                                 INTEGER (0..127),
    iE-Extensions                               ProtocolExtensionContainer { { HSSCCH-FDD-Specific-InfoItem-Response-ExtIEs } }        OPTIONAL,
    ...
}


HSSCCH-FDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB


HSSCCH-TDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response

HSSCCH-TDD-Specific-InfoItem-Response ::= SEQUENCE {
    timeslot                                    TimeSlot,
    midambleShiftAndBurstType                   MidambleShiftAndBurstType,
    tDD-ChannelisationCode                      TDD-ChannelisationCode,
    hSSICH-Info                                 HSSICH-Info,
    iE-Extensions                               ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-ExtIEs } }        OPTIONAL,
    ...
}

HSSCCH-TDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
HSSCCH-TDD-Specific-InfoList-Response-LCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response-LCR

HSSCCH-TDD-Specific-InfoItem-Response-LCR ::= SEQUENCE {
    timeslotLCR                              TimeSlotLCR,
    midambleShiftLCR                         MidambleShiftLCR,
    first-TDD-ChannelisationCodeLCR          TDD-ChannelisationCodeLCR,
    second-TDD-ChannelisationCodeLCR         TDD-ChannelisationCodeLCR,
    hSSICH-InfoLCR                           HSSICH-InfoLCR,
    iE-Extensions                            ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs } }        OPTIONAL,
    ...
}

HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSICH-Info ::= SEQUENCE {
    hsSICH-ID                                HS-SICH-ID,
    timeslot                                 TimeSlot,
    midambleShiftAndBurstType                MidambleShiftAndBurstType,
    tDD-ChannelisationCode                   TDD-ChannelisationCode,
    iE-Extensions                            ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }        OPTIONAL,
    ...
}

HSSICH-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSICH-InfoLCR ::= SEQUENCE {
    hsSICH-ID                                HS-SICH-ID,
    timeslotLCR                              TimeSlotLCR,
    midambleShiftLCR                         MidambleShiftLCR,
    tDD-ChannelisationCodeLCR                TDD-ChannelisationCodeLCR,
    iE-Extensions                            ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }        OPTIONAL,
    ...
}

HSSICH-Info-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-Reception-Quality-Value ::= SEQUENCE {
    failed-HS-SICH            HS-SICH-failed,
    missed-HS-SICH            HS-SICH-missed,
    total-HS-SICH             HS-SICH-total,
    iE-Extensions             ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs} } OPTIONAL,
    ...
}
```

```
HS-SICH-Reception-Quality-Value-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-failed ::= INTEGER (0..20)

HS-SICH-missed ::= INTEGER (0..20)

HS-SICH-total ::= INTEGER (0..20)

HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in [23]

HS-SICH-ID ::= INTEGER (0..31)

HSSCCH-CodeChangeIndicator  ::= ENUMERATED {
    hsSCCHCodeChangeNeeded
}

HSDSCH-FDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator                   HSSCCH-CodeChangeIndicator             OPTIONAL,
    cqiFeedback-CycleK                          CQI-Feedback-Cycle                     OPTIONAL,
    cqiRepetitionFactor                         CQI-RepetitionFactor                   OPTIONAL,
    ackNackRepetitionFactor                     AckNack-RepetitionFactor               OPTIONAL,
    cqiPowerOffset                              CQI-Power-Offset                       OPTIONAL,
    ackPowerOffset                              Ack-Power-Offset                       OPTIONAL,
    nackPowerOffset                             Nack-Power-Offset                      OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }   OPTIONAL,
    ...
}

HSDSCH-FDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-TDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator                   HSSCCH-CodeChangeIndicator             OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } }   OPTIONAL,
    ...
}

HSDSCH-TDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
-- M

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

MAC-c-sh-SDU-Length         ::= INTEGER (1..5000)

MAC-c-sh-SDU-LengthList ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

MACdPDU-Size ::= INTEGER (1..5000,...)

MACdPDU-Size-IndexList ::= SEQUENCE (SIZE (1..maxNrOfPDUIndexes)) OF MACdPDU-Size-IndexItem

MACdPDU-Size-IndexItem ::= SEQUENCE {
    sID                         SID,
    mACdPDU-Size                MACdPDU-Size,
    iE-Extensions               ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-ExtIEs } }        OPTIONAL,
    ...
}

MACdPDU-Size-IndexItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MACdPDU-Size-IndexList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfPDUIndexes)) OF MACdPDU-Size-IndexItem-to-Modify

MACdPDU-Size-IndexItem-to-Modify ::= SEQUENCE {
    sID                         SID,
    mACdPDU-Size                MACdPDU-Size                            OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-to-Modify-ExtIEs } }      OPTIONAL,
    ...
}

MACdPDU-Size-IndexItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-hsWindowSize        ::= ENUMERATED {v4, v6, v8, v12, v16, v24, v32,...}

MaximumAllowedULTxPower      ::= INTEGER (-50..33)

MaxNrDLPhysicalchannels      ::= INTEGER (1..224)

MaxNrTimeslots               ::= INTEGER (1..14)

MaxNrULPhysicalchannels      ::= INTEGER (1..2)

MaxTFCIvalue                 ::= INTEGER (1..1023)

MeasurementFilterCoefficient ::=  ENUMERATED{k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement
```

```
MeasurementID                   ::= INTEGER (0..1048575)


Measurement-Power-Offset ::= INTEGER(-12 .. 26)
-- Actual value = IE value * 0.5


MinimumSpreadingFactor       ::= INTEGER (1..16)


Multi-code-info              ::= INTEGER (1..16)


MultipleURAsIndicator ::= ENUMERATED {
    multiple-URAs-exist,
    single-URA-exists
}


MaxAdjustmentStep        ::= INTEGER(1..10)
-- Unit Slot


MeasurementChangeTime       ::= INTEGER (1..6000,...)
-- The MeasurementChangeTime  gives the MeasurementChangeTime
-- in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10 ms


Measurement-Feedback-Offset ::= INTEGER (0..79,...)


MeasurementHysteresisTime       ::= INTEGER (1..6000,...)
-- The MeasurementHysteresisTime  gives the
-- MeasurementHysteresisTime in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10ms


MeasurementIncreaseDecreaseThreshold        ::= CHOICE {
    sir                           SIR-Value-IncrDecrThres,
    sir-error                     SIR-Error-Value-IncrDecrThres,
    transmitted-code-power        Transmitted-Code-Power-Value-IncrDecrThres,
    rscp                          RSCP-Value-IncrDecrThres,
    round-trip-time               Round-Trip-Time-IncrDecrThres,
    ...,
    extension-MeasurementIncreaseDecreaseThreshold      Extension-MeasurementIncreaseDecreaseThreshold
}


Extension-MeasurementIncreaseDecreaseThreshold  ::= ProtocolIE-Single-Container {{ Extension-MeasurementIncreaseDecreaseThresholdIE }}


Extension-MeasurementIncreaseDecreaseThresholdIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Load-Value-IncrDecrThres    CRITICALITY reject  TYPE Load-Value-IncrDecrThres    PRESENCE mandatory }|
    { ID id-Transmitted-Carrier-Power-Value-IncrDecrThres   CRITICALITY reject  TYPE Transmitted-Carrier-Power-Value-IncrDecrThres    PRESENCE mandatory
}|
    { ID id-Received-Total-Wideband-Power-Value-IncrDecrThres   CRITICALITY reject  TYPE Received-Total-Wideband-Power-Value-IncrDecrThres    PRESENCE
mandatory }|
    { ID id-UL-Timeslot-ISCP-Value-IncrDecrThres    CRITICALITY reject  TYPE UL-Timeslot-ISCP-Value-IncrDecrThres   PRESENCE mandatory }|
    { ID id-RT-Load-Value-IncrDecrThres CRITICALITY reject  TYPE RT-Load-Value-IncrDecrThres    PRESENCE mandatory }|
```

```
    { ID id-NRT-Load-Information-Value-IncrDecrThres    CRITICALITY reject  TYPE NRT-Load-Information-Value-IncrDecrThres PRESENCE mandatory }
}

MeasurementThreshold               ::= CHOICE {
    sir                            SIR-Value,
    sir-error                      SIR-Error-Value,
    transmitted-code-power         Transmitted-Code-Power-Value,
    rscp                           RSCP-Value,
    rx-timing-deviation            Rx-Timing-Deviation-Value,
    round-trip-time                Round-Trip-Time-Value,
    ...,
    extension-MeasurementThreshold  Extension-MeasurementThreshold
}

Extension-MeasurementThreshold  ::= ProtocolIE-Single-Container {{ Extension-MeasurementThresholdIE }}

Extension-MeasurementThresholdIE RNSAP-PROTOCOL-IES ::= {
    { ID id-TUTRANGPSMeasurementThresholdInformation    CRITICALITY reject  TYPE TUTRANGPSMeasurementThresholdInformation    PRESENCE mandatory }|
    { ID id-SFNSFNMeasurementThresholdInformation    CRITICALITY reject  TYPE SFNSFNMeasurementThresholdInformation    PRESENCE mandatory }|
    { ID id-Load-Value  CRITICALITY reject  TYPE Load-Value    PRESENCE mandatory }|
    { ID id-Transmitted-Carrier-Power-Value    CRITICALITY reject  TYPE Transmitted-Carrier-Power-Value    PRESENCE mandatory }|
    { ID id-Received-Total-Wideband-Power-Value    CRITICALITY reject  TYPE Received-Total-Wideband-Power-Value    PRESENCE mandatory }|
    { ID id-UL-Timeslot-ISCP-Value    CRITICALITY reject  TYPE UL-Timeslot-ISCP-Value    PRESENCE mandatory }|
    { ID id-RT-Load-Value  CRITICALITY reject  TYPE RT-Load-Value    PRESENCE mandatory }|
    { ID id-NRT-Load-Information-Value  CRITICALITY reject  TYPE NRT-Load-Information-Value    PRESENCE mandatory }|
    { ID id-Rx-Timing-Deviation-Value-LCR    CRITICALITY reject  TYPE Rx-Timing-Deviation-Value-LCR                PRESENCE mandatory}|
    { ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject  TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory}
}

MidambleConfigurationBurstType1And3 ::=    ENUMERATED {v4, v8, v16}

MidambleConfigurationBurstType2 ::=    ENUMERATED {v3, v6}

MidambleShiftAndBurstType ::=      CHOICE {
    type1                          SEQUENCE {
        midambleConfigurationBurstType1And3    MidambleConfigurationBurstType1And3,
        midambleAllocationMode         CHOICE {
            defaultMidamble                NULL,
            commonMidamble                 NULL,
            ueSpecificMidamble             MidambleShiftLong,
            ...
        },
        ...
    },
    type2                          SEQUENCE {
        midambleConfigurationBurstType2    MidambleConfigurationBurstType2,
        midambleAllocationMode         CHOICE {
            defaultMidamble                NULL,
            commonMidamble                 NULL,
            ueSpecificMidamble             MidambleShiftShort,
            ...
```

```
        },
        ...
    },
    type3                           SEQUENCE {
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode          CHOICE {
            defaultMidamble                 NULL,
            ueSpecificMidamble              MidambleShiftLong,
            ...
        },
        ...
    },
    ...
}

MidambleShiftLong ::=               INTEGER (0..15)

MidambleShiftShort ::=              INTEGER (0..5)

MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode      MidambleAllocationMode,
    midambleShift               MidambleShiftLong       OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }       OPTIONAL,
    ...
    }

MidambleAllocationMode ::= ENUMERATED {
    defaultMidamble,
    commonMidamble,
    uESpecificMidamble,
    ...
    }

MidambleShiftLCR-ExtIEs  RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

Modulation ::= ENUMERATED {
    qPSK,
    eightPSK,
    ...
```

```
}

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

MAChs-ResetIndicator ::= ENUMERATED{
    mAChs-NotReset
}
```

9.3.6   Constant Definitions

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

RNSAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    ProcedureCode,
    ProtocolIE-ID
FROM RNSAP-CommonDataTypes;

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

id-commonTransportChannelResourcesInitialisation           ProcedureCode ::= 0
id-commonTransportChannelResourcesRelease                  ProcedureCode ::= 1
id-compressedModeCommand                                   ProcedureCode ::= 2
id-downlinkPowerControl                                    ProcedureCode ::= 3
id-downlinkPowerTimeslotControl                            ProcedureCode ::= 4
id-downlinkSignallingTransfer                              ProcedureCode ::= 5
id-errorIndication                                         ProcedureCode ::= 6
id-dedicatedMeasurementFailure                             ProcedureCode ::= 7
id-dedicatedMeasurementInitiation                          ProcedureCode ::= 8
id-dedicatedMeasurementReporting                           ProcedureCode ::= 9
id-dedicatedMeasurementTermination                         ProcedureCode ::= 10
id-paging                                                  ProcedureCode ::= 11
id-physicalChannelReconfiguration                          ProcedureCode ::= 12
id-privateMessage                                          ProcedureCode ::= 13
id-radioLinkAddition                                       ProcedureCode ::= 14
id-radioLinkCongestion                                     ProcedureCode ::= 34
id-radioLinkDeletion                                       ProcedureCode ::= 15
id-radioLinkFailure                                        ProcedureCode ::= 16
id-radioLinkPreemption                                     ProcedureCode ::= 17
id-radioLinkRestoration                                    ProcedureCode ::= 18
id-radioLinkSetup                                          ProcedureCode ::= 19
id-relocationCommit                                        ProcedureCode ::= 20
id-synchronisedRadioLinkReconfigurationCancellation        ProcedureCode ::= 21
```

```
id-synchronisedRadioLinkReconfigurationCommit            ProcedureCode ::= 22
id-synchronisedRadioLinkReconfigurationPreparation       ProcedureCode ::= 23
id-unSynchronisedRadioLinkReconfiguration                ProcedureCode ::= 24
id-uplinkSignallingTransfer                              ProcedureCode ::= 25
id-commonMeasurementFailure                              ProcedureCode ::= 26
id-commonMeasurementInitiation                           ProcedureCode ::= 27
id-commonMeasurementReporting                            ProcedureCode ::= 28
id-commonMeasurementTermination                          ProcedureCode ::= 29
id-informationExchangeFailure                            ProcedureCode ::= 30
id-informationExchangeInitiation                         ProcedureCode ::= 31
id-informationReporting                                  ProcedureCode ::= 32
id-informationExchangeTermination                        ProcedureCode ::= 33
id-reset                                                 ProcedureCode ::= 35
id-radioLinkActivation                                   ProcedureCode ::= 36
id-gERANuplinkSignallingTransfer                         ProcedureCode ::= 37
id-radioLinkParameterUpdate                              ProcedureCode ::= 38


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


maxCodeNumComp-1                    INTEGER ::= 255
maxRateMatching                     INTEGER ::= 256
maxNoCodeGroups                     INTEGER ::= 256
maxNoOfDSCHs                        INTEGER ::= 10
maxNoOfDSCHsLCR                     INTEGER ::= 10
maxNoOfRB                           INTEGER ::= 32
maxNoOfUSCHs                        INTEGER ::= 10
maxNoOfUSCHsLCR                     INTEGER ::= 10
maxNoTFCIGroups                     INTEGER ::= 256
maxNrOfTFCs                         INTEGER ::= 1024
maxNrOfTFs                          INTEGER ::= 32
maxNrOfCCTrCHs                      INTEGER ::= 16
maxNrOfCCTrCHsLCR                   INTEGER ::= 16
maxNrOfDCHs                         INTEGER ::= 128
maxNrOfDL-Codes                     INTEGER ::= 8
maxNrOfDPCHs                        INTEGER ::= 240
maxNrOfDPCHsLCR                     INTEGER ::= 240
maxNrOfErrors                       INTEGER ::= 256
maxNrOfMACcshSDU-Length             INTEGER ::= 16
maxNrOfPoints                       INTEGER ::= 15
maxNrOfRLs                          INTEGER ::= 16
maxNrOfRLSets                       INTEGER ::= maxNrOfRLs
maxNrOfRLSets-1                     INTEGER ::= 15  -- maxNrOfRLSets - 1
maxNrOfRLs-1                        INTEGER ::= 15  -- maxNrOfRLs - 1
maxNrOfRLs-2                        INTEGER ::= 14  -- maxNrOfRLs - 2
maxNrOfULTs                         INTEGER ::= 15
maxNrOfULTsLCR                      INTEGER ::= 6
maxNrOfDLTs                         INTEGER ::= 15
```

```
maxNrOfDLTsLCR                          INTEGER ::= 6
maxRNCinURA-1                           INTEGER ::= 15
maxTTI-Count                            INTEGER ::= 4
maxCTFC                                 INTEGER ::= 16777215
maxNrOfNeighbouringRNCs                 INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC              INTEGER ::= 256
maxNrOfGSMNeighboursPerRNC              INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC              INTEGER ::= 256
maxNrOfFACHs                            INTEGER ::= 8
maxNrOfLCRTDDNeighboursPerRNC           INTEGER ::= 256
maxFACHCountPlus1                       INTEGER ::= 10
maxIBSEG                                INTEGER ::= 16
maxNrOfSCCPCHs                          INTEGER ::= 8
maxTFCI1Combs                           INTEGER ::= 512
maxTFCI2Combs                           INTEGER ::= 1024
maxTFCI2Combs-1                         INTEGER ::= 1023
maxTGPS                                 INTEGER ::= 6
maxNrOfTS                               INTEGER ::= 15
maxNrOfLevels                           INTEGER ::= 256
maxNoOfDSCHs-1                          INTEGER ::= 9
maxNrOfTsLCR                            INTEGER ::= 6
maxNoSat                                INTEGER ::= 16
maxNoGPSTypes                           INTEGER ::= 8
maxNrOfMeasNCell                        INTEGER ::= 96
maxNrOfMeasNCell-1                      INTEGER ::= 95   -- maxNrOfMeasNCell - 1
maxResetContext                         INTEGER ::= 250
maxNrOfHARQProc                         INTEGER ::= 8
maxNrOfHSSCCHCodes                      INTEGER ::= 4
maxNrOfHSSICHs                          INTEGER ::= 4
maxNrOfMACdFlows                        INTEGER ::= 8
maxNrOfMACdFlows-1                      INTEGER ::= 7    -- maxNrOfMACdFlows - 1
maxNrOfPDUIndexes                       INTEGER ::= 8
maxNrOfPDUIndexes-1                     INTEGER ::= 7    -- maxNrOfPDUIndexes - 1
maxNrOfPrioQueues                       INTEGER ::= 8
maxNrOfPrioQueues-1                     INTEGER ::= 7    -- maxNrOfPrioQueues - 1
maxNrOfSNAs                             INTEGER ::= 65535

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

id-AllowedQueuingTime                                   ProtocolIE-ID ::= 4
id-Allowed-Rate-Information                             ProtocolIE-ID ::= 42
id-AntennaColocationIndicator                           ProtocolIE-ID ::= 309
id-BindingID                                            ProtocolIE-ID ::= 5
id-C-ID                                                 ProtocolIE-ID ::= 6
id-C-RNTI                                               ProtocolIE-ID ::= 7
id-Cell-Capacity-Class-Value                            ProtocolIE-ID ::= 303
id-CFN                                                  ProtocolIE-ID ::= 8
```

```
id-CN-CS-DomainIdentifier                                    ProtocolIE-ID ::= 9
id-CN-PS-DomainIdentifier                                    ProtocolIE-ID ::= 10
id-Cause                                                     ProtocolIE-ID ::= 11
id-CoverageIndicator                                         ProtocolIE-ID ::= 310
id-CriticalityDiagnostics                                    ProtocolIE-ID ::= 20
id-ContextInfoItem-Reset                                     ProtocolIE-ID ::= 211
id-D-RNTI                                                    ProtocolIE-ID ::= 21
id-D-RNTI-ReleaseIndication                                  ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD                                           ProtocolIE-ID ::= 26
id-DCHs-to-Add-TDD                                           ProtocolIE-ID ::= 27
id-DCH-DeleteList-RL-ReconfPrepFDD                           ProtocolIE-ID ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD                           ProtocolIE-ID ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD                           ProtocolIE-ID ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD                           ProtocolIE-ID ::= 33
id-DCH-FDD-Information                                       ProtocolIE-ID ::= 34
id-DCH-TDD-Information                                       ProtocolIE-ID ::= 35
id-FDD-DCHs-to-Modify                                        ProtocolIE-ID ::= 39
id-TDD-DCHs-to-Modify                                        ProtocolIE-ID ::= 40
id-DCH-InformationResponse                                   ProtocolIE-ID ::= 43
id-DCH-Rate-InformationItem-RL-CongestInd                    ProtocolIE-ID ::= 38
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD             ProtocolIE-ID ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD             ProtocolIE-ID ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          ProtocolIE-ID ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD                 ProtocolIE-ID ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD            ProtocolIE-ID ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD             ProtocolIE-ID ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD                ProtocolIE-ID ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD             ProtocolIE-ID ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          ProtocolIE-ID ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD                 ProtocolIE-ID ::= 53
id-FDD-DL-CodeInformation                                    ProtocolIE-ID ::= 54
id-DL-DPCH-Information-RL-ReconfPrepFDD                       ProtocolIE-ID ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD                        ProtocolIE-ID ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD                       ProtocolIE-ID ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD                ProtocolIE-ID ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD                 ProtocolIE-ID ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD                    ProtocolIE-ID ::= 64
id-DL-DPCH-TimingAdjustment                                  ProtocolIE-ID ::= 278
id-DLReferencePower                                          ProtocolIE-ID ::= 67
id-DLReferencePowerList-DL-PC-Rqst                           ProtocolIE-ID ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst                   ProtocolIE-ID ::= 69
id-DPC-Mode                                                  ProtocolIE-ID ::= 12
id-DRXCycleLengthCoefficient                                 ProtocolIE-ID ::= 70
id-DedicatedMeasurementObjectType-DM-Fail-Ind                ProtocolIE-ID ::= 470
id-DedicatedMeasurementObjectType-DM-Fail                    ProtocolIE-ID ::= 471
id-DedicatedMeasurementObjectType-DM-Rprt                    ProtocolIE-ID ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst                    ProtocolIE-ID ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp                     ProtocolIE-ID ::= 73
id-DedicatedMeasurementType                                  ProtocolIE-ID ::= 74
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD         ProtocolIE-ID ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD         ProtocolIE-ID ::= 83
```

```
id-Guaranteed-Rate-Information                        ProtocolIE-ID ::= 41
id-IMSI                                               ProtocolIE-ID ::= 84
id-HCS-Prio                                           ProtocolIE-ID ::= 311
id-L3-Information                                     ProtocolIE-ID ::= 85
id-AdjustmentPeriod                                   ProtocolIE-ID ::= 90
id-MaxAdjustmentStep                                  ProtocolIE-ID ::= 91
id-MeasurementFilterCoefficient                       ProtocolIE-ID ::= 92
id-MessageStructure                                   ProtocolIE-ID ::= 57
id-MeasurementID                                      ProtocolIE-ID ::= 93
id-Neighbouring-GSM-CellInformation                   ProtocolIE-ID ::= 13
id-Neighbouring-UMTS-CellInformationItem              ProtocolIE-ID ::= 95
id-NRT-Load-Information-Value                          ProtocolIE-ID ::= 305
id-NRT-Load-Information-Value-IncrDecrThres           ProtocolIE-ID ::= 306
id-PagingArea-PagingRqst                              ProtocolIE-ID ::= 102
id-FACH-FlowControlInformation                        ProtocolIE-ID ::= 103
id-PartialReportingIndicator                          ProtocolIE-ID ::= 472
id-Permanent-NAS-UE-Identity                          ProtocolIE-ID ::= 17
id-PowerAdjustmentType                                ProtocolIE-ID ::= 107
id-RANAP-RelocationInformation                        ProtocolIE-ID ::= 109
id-RL-Information-PhyChReconfRqstFDD                  ProtocolIE-ID ::= 110
id-RL-Information-PhyChReconfRqstTDD                  ProtocolIE-ID ::= 111
id-RL-Information-RL-AdditionRqstFDD                  ProtocolIE-ID ::= 112
id-RL-Information-RL-AdditionRqstTDD                  ProtocolIE-ID ::= 113
id-RL-Information-RL-DeletionRqst                     ProtocolIE-ID ::= 114
id-RL-Information-RL-FailureInd                       ProtocolIE-ID ::= 115
id-RL-Information-RL-ReconfPrepFDD                    ProtocolIE-ID ::= 116
id-RL-Information-RL-RestoreInd                       ProtocolIE-ID ::= 117
id-RL-Information-RL-SetupRqstFDD                     ProtocolIE-ID ::= 118
id-RL-Information-RL-SetupRqstTDD                     ProtocolIE-ID ::= 119
id-RL-InformationItem-RL-CongestInd                   ProtocolIE-ID ::= 55
id-RL-InformationItem-DM-Rprt                         ProtocolIE-ID ::= 120
id-RL-InformationItem-DM-Rqst                         ProtocolIE-ID ::= 121
id-RL-InformationItem-DM-Rsp                          ProtocolIE-ID ::= 122
id-RL-InformationItem-RL-PreemptRequiredInd           ProtocolIE-ID ::= 2
id-RL-InformationItem-RL-SetupRqstFDD                 ProtocolIE-ID ::= 123
id-RL-InformationList-RL-CongestInd                   ProtocolIE-ID ::= 56
id-RL-InformationList-RL-AdditionRqstFDD              ProtocolIE-ID ::= 124
id-RL-InformationList-RL-DeletionRqst                 ProtocolIE-ID ::= 125
id-RL-InformationList-RL-PreemptRequiredInd           ProtocolIE-ID ::= 1
id-RL-InformationList-RL-ReconfPrepFDD                ProtocolIE-ID ::= 126
id-RL-InformationResponse-RL-AdditionRspTDD           ProtocolIE-ID ::= 127
id-RL-InformationResponse-RL-ReconfReadyTDD           ProtocolIE-ID ::= 128
id-RL-InformationResponse-RL-SetupRspTDD              ProtocolIE-ID ::= 129
id-RL-InformationResponseItem-RL-AdditionRspFDD       ProtocolIE-ID ::= 130
id-RL-InformationResponseItem-RL-ReconfReadyFDD       ProtocolIE-ID ::= 131
id-RL-InformationResponseItem-RL-ReconfRspFDD         ProtocolIE-ID ::= 132
id-RL-InformationResponseItem-RL-SetupRspFDD          ProtocolIE-ID ::= 133
id-RL-InformationResponseList-RL-AdditionRspFDD       ProtocolIE-ID ::= 134
id-RL-InformationResponseList-RL-ReconfReadyFDD       ProtocolIE-ID ::= 135
id-RL-InformationResponseList-RL-ReconfRspFDD         ProtocolIE-ID ::= 136
id-RL-InformationResponse-RL-ReconfRspTDD             ProtocolIE-ID ::= 28
```

```
id-RL-InformationResponseList-RL-SetupRspFDD                    ProtocolIE-ID ::= 137
id-RL-ReconfigurationFailure-RL-ReconfFail                      ProtocolIE-ID ::= 141
id-RL-Set-InformationItem-DM-Rprt                               ProtocolIE-ID ::= 143
id-RL-Set-InformationItem-DM-Rqst                               ProtocolIE-ID ::= 144
id-RL-Set-InformationItem-DM-Rsp                                ProtocolIE-ID ::= 145
id-RL-Set-Information-RL-FailureInd                             ProtocolIE-ID ::= 146
id-RL-Set-Information-RL-RestoreInd                             ProtocolIE-ID ::= 147
id-RL-Set-Successful-InformationItem-DM-Fail                    ProtocolIE-ID ::= 473
id-RL-Set-Unsuccessful-InformationItem-DM-Fail                  ProtocolIE-ID ::= 474
id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind              ProtocolIE-ID ::= 475
id-RL-Successful-InformationItem-DM-Fail                        ProtocolIE-ID ::= 476
id-RL-Unsuccessful-InformationItem-DM-Fail                      ProtocolIE-ID ::= 477
id-RL-Unsuccessful-InformationItem-DM-Fail-Ind                  ProtocolIE-ID ::= 478
id-ReportCharacteristics                                        ProtocolIE-ID ::= 152
id-Reporting-Object-RL-FailureInd                               ProtocolIE-ID ::= 153
id-Reporing-Object-RL-RestoreInd                                ProtocolIE-ID ::= 154
id-RT-Load-Value                                                ProtocolIE-ID ::= 307
id-RT-Load-Value-IncrDecrThres                                  ProtocolIE-ID ::= 308
id-S-RNTI                                                       ProtocolIE-ID ::= 155
id-ResetIndicator                                               ProtocolIE-ID ::= 244
id-RNC-ID                                                       ProtocolIE-ID ::= 245
id-SAI                                                          ProtocolIE-ID ::= 156
id-SRNC-ID                                                      ProtocolIE-ID ::= 157
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD       ProtocolIE-ID ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD          ProtocolIE-ID ::= 160
id-TransportBearerID                                            ProtocolIE-ID ::= 163
id-TransportBearerRequestIndicator                              ProtocolIE-ID ::= 164
id-TransportLayerAddress                                        ProtocolIE-ID ::= 165
id-TypeOfError                                                  ProtocolIE-ID ::= 140
id-UC-ID                                                        ProtocolIE-ID ::= 166
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD                    ProtocolIE-ID ::= 167
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD                ProtocolIE-ID ::= 169
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD                    ProtocolIE-ID ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD                    ProtocolIE-ID ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD               ProtocolIE-ID ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD                ProtocolIE-ID ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD                ProtocolIE-ID ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD                   ProtocolIE-ID ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD                         ProtocolIE-ID ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD                         ProtocolIE-ID ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD                          ProtocolIE-ID ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD                   ProtocolIE-ID ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD                    ProtocolIE-ID ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD                       ProtocolIE-ID ::= 182
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD               ProtocolIE-ID ::= 183
id-UL-SIRTarget                                                 ProtocolIE-ID ::= 184
id-URA-Information                                              ProtocolIE-ID ::= 185
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD     ProtocolIE-ID ::= 188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD        ProtocolIE-ID ::= 189
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD        ProtocolIE-ID ::= 190
id-Active-Pattern-Sequence-Information                          ProtocolIE-ID ::= 193
```

```
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id-CauseLevel-RL-AdditionFailureFDD                          ProtocolIE-ID ::= 197
id-CauseLevel-RL-AdditionFailureTDD                          ProtocolIE-ID ::= 198
id-CauseLevel-RL-ReconfFailure                               ProtocolIE-ID ::= 199
id-CauseLevel-RL-SetupFailureFDD                             ProtocolIE-ID ::= 200
id-CauseLevel-RL-SetupFailureTDD                             ProtocolIE-ID ::= 201
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD          ProtocolIE-ID ::= 205
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD          ProtocolIE-ID ::= 206
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD          ProtocolIE-ID ::= 207
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD          ProtocolIE-ID ::= 208
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD          ProtocolIE-ID ::= 209
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          ProtocolIE-ID ::= 210
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD            ProtocolIE-ID ::= 212
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD         ProtocolIE-ID ::= 213
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD         ProtocolIE-ID ::= 214
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id-DSCHs-to-Add-FDD                                          ProtocolIE-ID ::= 216
id-DSCH-DeleteList-RL-ReconfPrepTDD                          ProtocolIE-ID ::= 217
id-DSCH-Delete-RL-ReconfPrepFDD                              ProtocolIE-ID ::= 218
id-DSCH-FDD-Information                                      ProtocolIE-ID ::= 219
id-DSCH-InformationListIE-RL-AdditionRspTDD                  ProtocolIE-ID ::= 220
id-DSCH-InformationListIEs-RL-SetupRspTDD                    ProtocolIE-ID ::= 221
id-DSCH-TDD-Information                                      ProtocolIE-ID ::= 222
id-DSCH-FDD-InformationResponse                              ProtocolIE-ID ::= 223
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id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD          ProtocolIE-ID ::= 259
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD          ProtocolIE-ID ::= 260
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          ProtocolIE-ID ::= 261
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          ProtocolIE-ID ::= 262
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          ProtocolIE-ID ::= 263
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id-USCH-DeleteList-RL-ReconfPrepTDD                          ProtocolIE-ID ::= 268
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id-USCH-ModifyList-RL-ReconfPrepTDD                            ProtocolIE-ID ::= 272
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id-InnerLoopDLPCStatus                                        ProtocolIE-ID ::= 24
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id-RxTimingDeviationForTA                                     ProtocolIE-ID ::= 36
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id-CCTrCH-InformationItem-RL-RestoreInd                       ProtocolIE-ID ::= 16
id-CommonMeasurementAccuracy                                  ProtocolIE-ID ::= 280
id-CommonMeasurementObjectType-CM-Rprt                        ProtocolIE-ID ::= 281
id-CommonMeasurementObjectType-CM-Rqst                        ProtocolIE-ID ::= 282
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id-RL-LCR-InformationResponse-RL-SetupRspTDD                  ProtocolIE-ID ::= 66
id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD             ProtocolIE-ID ::= 75
id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD                 ProtocolIE-ID ::= 76
id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD             ProtocolIE-ID ::= 77
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id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD                 ProtocolIE-ID ::= 79
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id-RL-LCR-InformationResponse-RL-AdditionRspTDD               ProtocolIE-ID ::= 86
id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD          ProtocolIE-ID ::= 87
id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD             ProtocolIE-ID ::= 88
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id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD         ProtocolIE-ID ::= 98
id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD    ProtocolIE-ID ::= 100
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id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD    ProtocolIE-ID ::= 104
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id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD           ProtocolIE-ID ::= 106
id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD                        ProtocolIE-ID ::= 138
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id-Received-Total-Wideband-Power-Value                         ProtocolIE-ID ::= 236
id-Received-Total-Wideband-Power-Value-IncrDecrThres           ProtocolIE-ID ::= 237
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id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD                      ProtocolIE-ID ::= 203
id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD           ProtocolIE-ID ::= 204
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id-DL-PowerBalancing-Information                               ProtocolIE-ID ::= 296
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id-DL-PowerBalancing-UpdatedIndicator                          ProtocolIE-ID ::= 298
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id-CellCapabilityContainer-TDD                                 ProtocolIE-ID ::= 301
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id-DelayedActivationInformation-RL-ActivationCmdFDD            ProtocolIE-ID ::= 314
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id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD    ProtocolIE-ID ::= 151
id-PrimCCPCH-RSCP-DL-PC-RqstTDD                                ProtocolIE-ID ::= 451
id-HSDSCH-FDD-Information                                      ProtocolIE-ID ::= 452
id-HSDSCH-FDD-Information-Response                             ProtocolIE-ID ::= 453
id-HSDSCH-FDD-Information-to-Add                               ProtocolIE-ID ::= 454
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id-HSDSCH-FDD-Information-to-Delete                         ProtocolIE-ID ::= 455
id-HSDSCH-FDD-Update-Information                            ProtocolIE-ID ::= 466
id-HSDSCH-Information-to-Modify                             ProtocolIE-ID ::= 456
id-HSDSCH-RNTI                                              ProtocolIE-ID ::= 457
id-HSDSCH-TDD-Information                                   ProtocolIE-ID ::= 458
id-HSDSCH-TDD-Information-Response                          ProtocolIE-ID ::= 459
id-HSDSCH-TDD-Information-Response-LCR                      ProtocolIE-ID ::= 460
id-HSDSCH-TDD-Information-to-Add                            ProtocolIE-ID ::= 461
id-HSDSCH-TDD-Information-to-Delete                         ProtocolIE-ID ::= 462
id-HSDSCH-TDD-Update-Information                            ProtocolIE-ID ::= 467
id-HSPDSCH-RL-ID                                            ProtocolIE-ID ::= 463
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id-TFCI-PC-SupportIndicator                                ProtocolIE-ID ::= 248
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id-DSCH-InitialWindowSize                                  ProtocolIE-ID ::= 480
id-UL-Synchronisation-Parameters-LCR                       ProtocolIE-ID ::= 464
id-SNA-Information                                         ProtocolIE-ID ::= 479
id-MAChs-ResetIndicator                                    ProtocolIE-ID ::= 465
id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD   ProtocolIE-ID ::= 481
id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD   ProtocolIE-ID ::= 482
id-HS-SICH-Reception-Quality                               ProtocolIE-ID ::= 495
id-HS-SICH-Reception-Quality-Measurement-Value             ProtocolIE-ID ::= 496
id-HSSICH-Info-DM-Rprt                                     ProtocolIE-ID ::= 497
id-HSSICH-Info-DM-Rqst                                     ProtocolIE-ID ::= 498
id-HSSICH-Info-DM-Rsp                                      ProtocolIE-ID ::= 499


END
```

CR-Form-v7

CHANGE REQUEST

⌘ **25.433 CR 803** ⌘**rev 1** ⌘ Current version: **5.3.0** ⌘

For HELP on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps⌘ ☐   ME ☐ Radio Access Network **X** Core Network ☐

Title: ⌘	HS-SICH quality Reporting to support outer loop power control
Source: ⌘	RAN WG3
Work item code:⌘	HSDPA-IubIur ***Date:*** ⌘ 17/02/2003

Category: ⌘ **F**	***Release:*** ⌘ Rel-5

Use one of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘	To allow the SRNC to track uplink outer loop power control for the HS-SICH additional information is needed since the uplink associated dedicated channel is possibly in a different timeslot and thus not as reliable as is necessary. WG1 after studying the issue has agreed to include a HS-SICH quality measurement which allows for the measurement of successful and unsuccessful HS-SICH transmissions in a similar manner as BLER (the HS-SICH does not have a CRC so traditional BLER is not possible). Additionally WG1 has agreed to extend the SIR and RSCP measurements to the HS-SICH.
Summary of change:⌘	The measurement procedure has been extended to include the new HS-SICH quality measurement, and since there are separate outer loops for each HS-SICH (they may be in different timeslots) this measurement (along with the extended SIR and RSCP measurements) need to be reported individually for each HS-SICH. Thus a HS-SICH ID also needs to be added to the channel allocation sections and measurement reporting to allow this identification. Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects the newly added HS-DSCH for TDD
Consequences if not approved: ⌘	HS-SICH outer loop power control will not work since the SRNC does not have sufficient information in which to base its outer loop adjustments.
Clauses affected: ⌘	8.3.8, 8.3.9, 9.1.52, 9.1.53, 9.1.55, 9.1.62, 9.2.1.23, 9.2.1.24, 9.2.1.44, 9.2.3.56, 9.2.3.x, 9.3.3, 9.3.4, 9.3.6

		Y	N		
Other specs	⌘	X		Other core specifications	⌘ 25.225 CR 065
					25.423 CR 781
affected:			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘ x=9.2.3.5Gb

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request

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 subclause 3.1.

8.3.8.2   Successful Operation
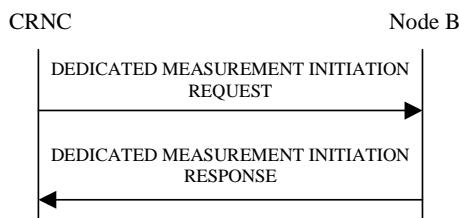
Figure 38: Dedicated Measurement Initiation procedure, Successful Operation

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 controlled 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 only.

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", the measurement request shall be treated as a single measurement, despite applying to multiple contexts. This means that it may only be terminated or failed on "All NBCC".

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", the measurement shall be initiated only for those Node B Communication Contexts handling a mode (FDD, 3.84Mcps TDD or 1.28Mcps TDD) for which the concerned measurement is specified in [4] and [5].

If the Dedicated Measurement Object Type is indicated as being "RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Links.

[FDD – If the Dedicated Measurement Object Type is indicated as being "RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Link Sets.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all current and future Radio Links within the Node B Communication Context.]

[TDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for one existing DPCH per CCTrCH in each used time slot of current and future Radio Links within the Node B Communication Context, provided the measurement type is applicable to the respective DPCH.]

[FDD – If the Dedicated Measurement Object Type is indicated as being "ALL RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all existing and future Radio Link Sets within the Node B Communication Context.]

[TDD – If the *DPCH ID* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE, *HS-SICH ID* IE and no *PUSCH Information* IE is provided within the RL Information, the measurement request shall apply for one existing physical channel per CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this physical channel.]

[TDD – If the *PUSCH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD – If the *HS-SICH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the *Dedicated Measurement Type* IE is set to "HS-SICH reception quality ", the Node B shall initiate measurements of the failed, missed and total HS-SICH transmissions on all of the HS-SICH assigned to this Node B Communication Context. If either the failed or missed HS-SICH transmission satisfies the requested report characteristics, the Node B shall report the result of both failed and missed transmission measurements along with the total number of transmissions.]

If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand". The reported CFN shall be the CFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25].

Report characteristics

The *Report Characteristics* IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *CFN* IE is not provided, the Node B shall return the result of the measurement immediately. If the *CFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Periodic", the Node B shall periodically initiate the Dedicated Measurement Report procedure for this measurement, with the requested report frequency. If the *CFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, 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 the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, 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 the Dedicated Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, 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 the Dedicated Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

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 the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

Higher layer filtering

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, the unit used for M_n is the same unit as the reported unit in the DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn)

$a = 1/2^{(k/2)}$, where k is 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.

Response message

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 where the *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. [TDD – In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the *HS-SICH ID* IE that indicates which HS-SICH was measured.]

In the case where the *Node B Communication Context ID* IE is set to "All NBCC", the *CRNC Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE shall be set to the value "All CRNCCC", which is reserved for this purpose.

Interaction with Reset Procedure

If a measurement has been requested with the *Node B Communication Context ID* IE set to "All NBCC", the Node B shall terminate the measurement locally if either the CRNC or the Node B initiates the Reset procedure for the relevant Communication Control Port or the entire Node B.

8.3.8.3 Unsuccessful Operation
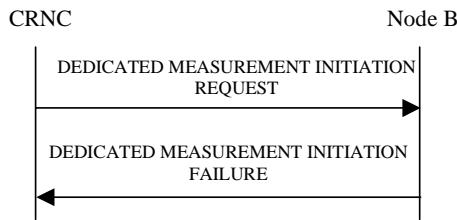
Figure 39: Dedicated Measurement Initiation procedure: Unsuccessful Operation

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.

In the case where the *Node B Communication Context ID* IE is set to "All NBCC" the *CRNC Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION FAILURE shall be set to the value "All CRNCCC", which is reserved for this purpose.

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

The allowed combinations of the Dedicated Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

Table 4: Allowed Dedicated Measurement Type and Report Characteristics Type combinations

Dedicated Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
SIR	X	X	X	X	X	X	X	X	
SIR Error	X	X	X	X	X	X	X	X	
Transmitted Code Power	X	X	X	X	X	X	X	X	
RSCP	X	X	X	X	X	X	X	X	
Rx Timing Deviation	X	X	X	X			X	X	
Round Trip Time	X	X	X	X	X	X	X	X	
Rx Timing Deviation LCR	X	X	X	X			X	X	
HS-SICH reception quality	X	X	X	X			X	X	

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. [4] or [5] to be measured on the Dedicated Measurement Object Type received in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

If the *CFN* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic" or "On Demand", the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

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

CRNC   Node B

DEDICATED MEASUREMENT REPORT

Figure 40: Dedicated Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the Node B shall initiate the Dedicated Measurement Reporting procedure. The DEDICATED MEASUREMENT REPORT message shall use the Communication Control Port assigned to the Node B Communication Context. If the measurement was initiated (by the Dedicated Measurement Initiation procedure) for multiple dedicated measurement objects, the Node B may include measurement values for multiple objects in the DEDICATED MEASUREMENT REPORT message. Unless specified below, the meaning of the parameters are given in other specifications.

The *Measurement ID* IE shall be set to the Measurement ID provided by the CRNC when initiating the measurement with the Dedicated Measurement Initiation procedure.

[TDD – In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the *HS-SICH ID* IE that indicates which HS-SICH was measured.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref.[22] and [23]), the Measurement not available shall be reported.

8.3.9.3 Abnormal Conditions

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9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used when the Report characteristics type is set to "On Demand".	YES	reject
Measurement ID	M		9.2.1.42		YES	reject
CHOICE *Dedicated Measurement Object Type*	M				YES	reject
>*RL*					–	
>>**RL Information**		*1..<maxno ofRLs>*			EACH	reject
>>>RL ID	M		9.2.1.53		–	
>>>DPCH ID	O		9.2.3.5	TDD only	–	
>>>**PUSCH Information**		*0..<maxno ofPUSCHs>*		TDD only	GLOBAL	reject
>>>>PUSCH ID	M		9.2.3.12		–	
>>>HS-SICH Information		*0..<maxno ofHSSICHs>*		TDD only	GLOBAL	reject
>>>>HS-SICH ID	M		9.2.3.x		–	
>*RLS*				FDD only	–	
>>**RL Set Information**		*1..<maxno ofRLSets>*			–	
>>>RL Set ID	M		9.2.2.39		–	
>*ALL RL*			NULL		–	
>*ALL RLS*			NULL	FDD only	–	
Dedicated Measurement Type	M		9.2.1.23		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject
CFN Reporting Indicator	M		FN Reporting Indicator 9.2.1.29B		YES	reject
CFN	O		9.2.1.7		YES	reject

Range Bound	Explanation
maxnoofRLs	Maximum number of individual RLs a measurement can be started on
maxnoofPUSCHs	Maximum number of PUSCHs per RL a measurement can be started on
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on
maxnoofHSSICHs	Maximum number of HSSICHs per RL a measurement can be started on

9.1.53   DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE *Dedicated Measurement Object Type*	O			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>*RL or ALL RL*					–	
>>RL Information		1..<*maxnoofRLs*>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>DPCH ID	O		9.2.3.5	TDD only	–	
>>>Dedicated Measurement Value	M		9.2.1.24		–	
>>>CFN	O		9.2.1.7	Dedicated Measurement Time Reference	–	
>>>PUSCH Information		0..<*maxnoofPUSCHs*>		TDD only	GLOBAL	reject
>>>>PUSCH ID	M		9.2.3.12		–	
>>>HS-SICH ID	O		9.2.3.x	TDD only	YES	reject
>*RLS or ALL RLS*				FDD only	–	
>>RL Set Information		1..<*maxnoofRLSets*>			EACH	ignore
>>>RL Set ID	M		9.2.2.39		–	
>>>Dedicated Measurement Value	M		9.2.1.24		–	
>>>CFN	O		9.2.1.7	Dedicated Measurement Time Reference	–	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on
maxnoofPUSCHs	Maximum number of PUSCHs per RL a measurement can be started on
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on

9.1.55 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE *Dedicated Measurement Object Type*	M			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>*RL or ALL RL*					–	
>>RL Information		*1..<maxnoofRLs>*			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>DPCH ID	O		9.2.3.5	TDD only	–	
>>>Dedicated Measurement Value Information	M		9.2.1.24A		–	
>>>PUSCH Information		*0..<maxnoofPUSCHs>*		TDD only	GLOBAL	reject
>>>>PUSCH ID	M		9.2.3.12		–	
>>>HS-SICH ID	O		9.2.3.x	TDD only	YES	reject
>*RLS or ALL RLS*				FDD only	–	
>>RL Set Information		*1..<maxnoofRLSets>*			EACH	ignore
>>>RL Set ID	M		9.2.1.39		–	
>>>Dedicated Measurement Value Information	M		9.2.1.24A		–	

Range Bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on
maxnoofPUSCHs	Maximum number of PUSCHs per RL a measurement can be started on
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on

9.1.62   PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST

9.1.62.1   FDD Message

9.1.62.2   TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
SFN	O		9.2.1.53A		YES	reject
PDSCH Sets To Add		*0..<maxno ofPDSCH Sets>*			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
>PDSCH To Add Information		*0..1*		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>DL Timeslot Information		*1..<maxno ofDLts>*			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>DL Code Information		*1..<maxno ofPDSCHs>*			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
>PDSCH To Add Information LCR		*0..1*		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>DL Timeslot Information LCR		*1..<maxno ofDLtsLCR >*			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>DL Code Information LCR		*1..<maxno ofPDSCHs >*			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	

PDSCH Sets To Modify		*0..<maxno of PDSCHSe ts>*			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
>PDSCH To Modify Information		*0..1*		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
>>DL Timeslot Information		*0..<maxno ofDLts>*			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>>TFCI Presence	O		9.2.1.57		–	
>>>DL Code Information		*0..<maxno ofPDSCHs >*			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
>PDSCH To Modify Information LCR		*0..1*		Mandatory for 1.28 Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
>>DL Timeslot Information LCR		*0..<maxno ofDLtsLCR >*			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	O		9.2.3.7A		–	
>>>TFCI Presence	O		9.2.1.57		–	
>>>DL Code Information LCR		*0..<maxno ofPDSCHs >*			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
PDSCH Sets To Delete		*0..<maxno of PDSCHSe ts>*			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
PUSCH Sets To Add		*0..<maxno of PUSCHSe ts>*			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	
>PUSCH To Add Information		*0..1*		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject

>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>UL Timeslot Information		*1..<maxno ofULts>*			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>UL Code Information		*1..<maxno ofPUSCHs >*			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
>PUSCH To Add Information LCR		*0..1*		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>UL Timeslot Information LCR		*1..<maxno ofULtsLCR >*			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>UL Code Information LCR		*1..<maxno ofPUSCHs LCR>*			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
PUSCH Sets To Modify		*0..<maxno of PUSCHSe ts>*			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	
>PUSCH To Modify Information		*0..1*		Applicable to 3.84Mcps TDD only	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
>>UL Timeslot Information		*0..<maxno ofULts>*			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>>TFCI Presence	O		9.2.1.57		–	
>>>UL Code Information		*0..<maxno ofPUSCHs >*			–	
>>>>PUSCH ID	M		9.2.3.12		–	

>>>>TDD Channelisation Code	M		9.2.3.19		–	
>PUSCH To Modify Information LCR		*0..1*		Applicable to 1.28Mcps TDD only	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
>>UL Timeslot Information LCR		*0..<maxno ofULtsLCR >*		Applicable to 1.28Mcps TDD only	–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	O		9.2.3.7A		–	
>>>TFCI Presence	O		9.2.1.57		–	
>>>UL Code Information LCR		*0..<maxno ofPUSCHs LCR>*			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
PUSCH Sets To Delete		*0..<maxno ofPUSCH Sets>*			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	
HS-PDSCH TDD Information		*0..1*			GLOBAL	reject
>CHOICE *replaceremove*					–	
>>*replace*					–	
>>>DL Timeslot Information		*0..<maxno ofDLts>*		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	–	
>>>>Time Slot	M		9.2.3.23		–	
>>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>DL Timeslot Information LCR		*0..<maxno ofDLtsLCR >*		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>>>>Time Slot LCR	M		9.2.3.24a		–	
>>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>*remove*			NULL		–	
Add to HS-SCCH Resource Pool		*0..1*			GLOBAL	reject
>HS-SCCH Information		*0..<maxno ofHSSCC Hs>*		Applicable to 3.84Mcps TDD only	–	
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>TDD Channelisation Code	M		9.2.3.19		–	

>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		–	
>>HS-SICH Information		*1*			–	
>>>HS-SICH ID	<u>M</u>		<u>9.2.3.x</u>		<u>=</u>	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
>HS-SCCH Information LCR		*0..<maxno ofHSSCC Hs>*		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot LCR	M		9.2.3.24a		–	
>>Midamble Shift LCR	M		9.2.3.7A		–	
>>First TDD Channelisation Code LCR	M		TDD Channelisat ion Code LCR 9.2.3.19a		–	
>>Second TDD Channelisation Code LCR	M		TDD Channelisat ion Code LCR 9.2.3.19a		-	
>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		–	
>>HS-SICH Information LCR		*1*			–	
>>>HS-SICH ID	<u>M</u>		<u>9.2.3.x</u>		<u>=</u>	
>>>Time Slot LCR	M		9.2.3.24a		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
Modify HS-SCCH Resource Pool		*0..1*			GLOBAL	reject
>HS-SCCH Information		*0..<maxno ofHSSCC Hs>*		Applicable to 3.84Mcps TDD only	–	
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot	O		9.2.3.23		–	
>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>TDD Channelisation Code	O		9.2.3.19		–	
>>Maximum HS-SCCH Power	O		DL Power 9.2.1.21		–	
>>HS-SICH Information		*0..1*			–	
>>>HS-SICH ID	<u>M</u>		<u>9.2.3.x</u>		<u>=</u>	
>>>Time Slot	O		9.2.3.23		–	
>>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>>TDD Channelisation Code	O		9.2.3.19		–	
>HS-SCCH Information LCR		*0..<maxno ofHSSCC Hs>*		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot LCR	O		9.2.3.24a		–	
>>Midamble Shift LCR	O		9.2.3.7A		–	

>>First TDD Channelisation Code LCR	O		TDD Channelisation Code LCR 9.2.3.19a		–	
>>Second TDD Channelisation Code LCR	O		TDD Channelisation Code LCR 9.2.3.19a			
>>Maximum HS-SCCH Power	O		DL Power 9.2.1.21		–	
>>HS-SICH Information LCR		*0..1*			–	
>>>HS-SICH ID	M		9.2.3.x		–	
>>>Time Slot LCR	O		9.2.3.24a		–	
>>Midamble Shift LCR	O		9.2.3.7A		–	
>>>TDD Channelisation Code LCR	O		9.2.3.19a		–	
Delete from HS-SCCH Resource Pool		*0..<maxno of HSSCCHs >*			GLOBAL	reject
>HS-SCCH ID	M		9.2.3.5Ga		–	

Range Bound	Explanation
maxnoofPDSCHSets	Maximum number of PDSCH Sets in a cell.
maxnoofPDSCHs	Maximum number of PDSCH in a cell.
maxnoofPUSCHSets	Maximum number of PUSCH Sets in a cell.
maxnoofPUSCHs	Maximum number of PUSCH in a cell.
maxnoofDLts	Maximum number of Downlink time slots in a cell for 3.84Mcps TDD.
maxnoofULts	Maximum number of Uplink time slots in a cell for 3.84Mcps TDD.
maxnoofULtsLCR	Maximum number of Uplink time slots in a cell for 1.28Mcps TDD
maxnoofHSSCCHs	Maximum number of HS-SCCHs in a Cell

9.2.1.23   Dedicated Measurement Type

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Type			ENUMERATED (SIR, SIR Error, Transmitted Code Power, RSCP, Rx Timing Deviation, Round Trip Time, …, Rx Timing Deviation LCR, Angle Of Arrival LCR, HS-SICH reception quality)	"RSCP" and "HS-SICH reception quality " are is used by TDD only. "Rx Timing Deviation" is used by 3.84Mcps TDD only. "Rx Timing Deviation LCR", "Angle Of Arrival LCR" are used by 1.28Mcps TDD only. "Round Trip Time", "SIR Error" are used by FDD only.

Note: For definitions of the measurement types refer to [4] and [5].

9.2.1.24 Dedicated Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE *Dedicated Measurement Value*					–	
>*SIR Value*					–	
>>SIR Value	M		INTEGER (0..63)	According to mapping in [22] and [23]	–	
>*SIR Error Value*				FDD only	–	
>>SIR Error Value	M		INTEGER (0..125)	According to mapping in [22]	–	
>*Transmitted Code Power Value*					–	
>>Transmitted Code Power Value	M		INTEGER (0..127)	According to mapping in [22] and [23]. Values 0 to 9 and 123 to 127 shall not be used.	–	
>*RSCP*				TDD only	–	
>>RSCP	M		INTEGER (0..127)	According to mapping in [23]	–	
>*Rx Timing Deviation Value*				Applicable to 3.84Mcps TDD only	–	
>>Rx Timing Deviation	M		INTEGER (0..8191)	According to mapping in [23]	–	
>*Round Trip Time*				FDD only	–	
>>Round Trip Time	M		INTEGER (0..32767)	According to mapping in [22]	–	
>*Additional Dedicated Measurement Values*					–	
>>*Rx Timing Deviation Value LCR*				Applicable to 1.28Mcps TDD only	–	
>>>Rx Timing Deviation LCR	M		INTEGER (0..511)	According to mapping in [23]	YES	reject
>>*Angle Of Arrival Value LCR*				Applicable to 1.28Mcps TDD only	–	
>>>AOA Value LCR		1			YES	reject
>>>>AOA LCR	M		INTEGER (0..719)	According to mapping in [23]	–	
>>>>AOA LCR Accuracy Class	M		ENUMERATED (A, B, C, D, E, F, G, H,...)	According to mapping in [23]	–	
>> HS-SICH reception quality				Applicable to TDD only	–	
>>> HS-SICH reception quality Value		*1*			YES	reject
>>>>Failed HS-SICH	M		INTEGER (0..20)	According to mapping in [23]	–	
>>>Missed HS-SICH	M		INTEGER (0..20)	According to mapping in [23]	–	
>>>Total HS-SICH	M		INTEGER (0..20)	According to mapping in [23]	–	

9.2.1.44 Measurement Threshold

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE *Measurement Threshold*					–	
>*Received Total Wide Band Power*					–	
>>Received Total Wide Band Power	M		INTEGER (0..621)	According to mapping in [22] and [23]	–	
>*Transmitted Carrier Power*					–	
>>Transmitted Carrier Power	M		INTEGER (0..100)	According to mapping in [22] and [23]	–	
>*Acknowledged PRACH Preambles*				FDD only	–	
>>Acknowledged PRACH Preambles	M		INTEGER (0..240,…)	According to mapping in [22]	–	
>*UL Timeslot ISCP*				TDD only	–	
>>UL Timeslot ISCP	M		INTEGER (0..127)	According to mapping in [23]	–	
>*SIR*					–	
>>SIR	M		INTEGER (0..63)	According to mapping in [22] and [23]	–	
>*SIR Error*				FDD only	–	
>>SIR Error	M		INTEGER (0..125)	According to mapping in [22]	–	
>*Transmitted Code Power*					–	
>>Transmitted Code Power	M		INTEGER (0..127)	According to mapping in [22] and [23]	–	
>*RSCP*				TDD only	–	
>>RSCP	M		INTEGER (0..127)	According to mapping in [23]	–	
>*Rx Timing Deviation*				Applicable to 3.84Mcps TDD only	–	
>>Rx Timing Deviation	M		INTEGER (0..8191)	According to mapping in [23]	–	
>*Round Trip Time*				FDD only	–	
>>Round Trip Time	M		INTEGER (0..32767)	According to mapping in [22]	–	
>*Acknowledged PCPCH Access Preambles*				FDD only	–	
>>Acknowledged PCPCH Access Preambles	M		INTEGER (0..15,…)	According to mapping in [22]	–	
>*Detected PCPCH Access Preambles*				FDD only	–	
>>Detected PCPCH Access Preambles	M		INTEGER (0..240,…)	According to mapping in [22]	–	
>*Additional Measurement Thresholds*					–	
>>*UTRAN GPS Timing of Cell Frames for UE Positioning*					–	
>>>$T_{UTRAN\text{-}GPS}$ Measurement Threshold Information	M		9.2.1.64B		YES	reject
>>*SFN-SFN Observed Time Difference*					–	
>>>SFN-SFN Measurement Threshold	M		9.2.1.53C		YES	reject

Information						
>>*Rx Timing Deviation LCR*				Applicable to 1.28Mcps TDD Only	–	
>>>Rx Timing Deviation LCR	M		INTEGER (0..255)	According to mapping in [23]	YES	reject
>> *HS-SICH reception quality*				Applicable to TDD Only	–	
>>> HS-SICH reception quality	M		INTEGER (0..20)	According to mapping in [23]	YES	reject

9.2.3.5G   HS-DSCH TDD Information Response

The HS-DSCH TDD Information Response provides information for HS-DSCH MAC-d flows that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information Response		*1..<max noofMA CdFlow s>*			–	
>HS-DSCH MAC-d Flow ID	M		9.2.1.31I		–	
>Binding ID	O		9.2.1.4		–	
>Transport Layer Address	O		9.2.1.63		–	
> HS-DSCH Initial Capacity Allocation	O		9.2.1.31Ha		–	
HS-SCCH Specific Information Response		*0..<max NoOfHS SCCHc odes>*			GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Midamble Shift And Burst Type	M		9.2.3.7		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>HS-SICH Information		*1*			–	
>>HS SICH ID	M		9.2.3.x			
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
HS-SCCH Specific Information Response LCR		*0..<max NoOfHS SCCHc odes>*			GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		–	
>Midamble Shift LCR	M		9.2.3.7a		–	
>First TDD Channelisation Code LCR	M		TDD Channelisatio n Code LCR 9.2.3.19a		–	
>Second TDD Channelisation Code LCR	M		TDD Channelisatio n Code LCR 9.2.3.19a		-	
>HS-SICH Information LCR		*1*			–	
>>HS SICH ID	M		9.2.3.x			
>>Time Slot LCR	M		9.2.3.24A		–	
>>Midamble Shift LCR	M		9.2.3.7a		–	
>>TDD Channelisation Code LCR	M		9.2.3.19a		–	

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows.
maxnoofPrioQueues	Maximum number of Priority Queues
maxnoofMACdPDUindexes	Maximum number of different MAC-d Size Indexes (SIDs)
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes

9.2.3.x   HS-SICH ID

The HS-SICH ID identifies unambiguously a HS-SICH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS SICH ID			INTEGER (0..31)	

9.3.3   PDU Definitions

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

NBAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-Power,
    AICH-TransmissionTiming,
    AllocationRetentionPriority,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    SCTD-Indicator,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CellSyncBurstCode,
    CellSyncBurstCodeShift,
    CellSyncBurstRepetitionPeriod,
    CellSyncBurstSIR,
    CellSyncBurstTiming,
    CellSyncBurstTimingThreshold,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
```

```
	Compressed-Mode-Deactivation-Flag,
	CommonMeasurementAccuracy,
	CommonMeasurementType,
	CommonMeasurementValue,
	CommonMeasurementValueInformation,
	CommonPhysicalChannelID,
	Common-PhysicalChannel-Status-Information,
	Common-TransportChannel-Status-Information,
	CommonTransportChannelID,
	CommonTransportChannel-InformationResponse,
	CommunicationControlPortID,
	ConfigurationGenerationID,
	ConstantValue,
	CriticalityDiagnostics,
	CPCH-Allowed-Total-Rate,
	CPCHScramblingCodeNumber,
	CPCH-UL-DPCCH-SlotFormat,
	CRNC-CommunicationContextID,
	CSBMeasurementID,
	CSBTransmissionID,
	DCH-FDD-Information,
	DCH-InformationResponse,
	DCH-ID,
	FDD-DCHs-to-Modify,
	TDD-DCHs-to-Modify,
	DCH-TDD-Information,
	DedicatedChannelsCapacityConsumptionLaw,
	DedicatedMeasurementType,
	DedicatedMeasurementValue,
	DedicatedMeasurementValueInformation,
	DelayedActivation,
	DelayedActivationUpdate,
	DiversityControlField,
	DiversityMode,
	DL-DPCH-SlotFormat,
	DL-DPCH-TimingAdjustment,
	DL-or-Global-CapacityCredit,
	DL-Power,
	DL-PowerBalancing-Information,
	DL-PowerBalancing-ActivationIndicator,
	DLPowerAveragingWindowSize,
	DL-PowerBalancing-UpdatedIndicator,
	DL-ScramblingCode,
	DL-TimeslotISCP,
	DL-Timeslot-Information,
	DL-TimeslotLCR-Information,
	DL-TimeslotISCPInfo,
	DL-TimeslotISCPInfoLCR,
	DL-TPC-Pattern01Count,
	DPC-Mode,
	DPCH-ID,
	DSCH-ID,
	DSCH-FDD-Common-Information,
```

```
DSCH-FDD-Information,
DSCH-InformationResponse,
DSCH-TDD-Information,
DwPCH-Power,
End-Of-Audit-Sequence-Indicator,
EnhancedDSCHPC,
EnhancedDSCHPCCounter,
EnhancedDSCHPCIndicator,
EnhancedDSCHPCWnd,
EnhancedDSCHPowerOffset,
FDD-DL-ChannelisationCodeNumber,
FDD-DL-CodeInformation,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FirstRLS-Indicator,
FNReportingIndicator,
FPACH-Power,
FrameAdjustmentValue,
FrameHandlingPriority,
FrameOffset,
HS-PDSCH-FDD-Code-Information,
HS-SCCH-ID,
HS-SCCH-FDD-Code-Information,
HS-SICH-ID,
IB-OC-ID,
IB-SG-DATA,
IB-SG-POS,
IB-SG-REP,
IB-Type,
InformationExchangeID,
InformationReportCharacteristics,
InformationType,
InnerLoopDLPCStatus,
IPDL-FDD-Parameters,
IPDL-TDD-Parameters,
IPDL-Indicator,
IPDL-TDD-Parameters-LCR,
LimitedPowerIncrease,
Local-Cell-ID,
MaximumDL-PowerCapability,
Maximum-PDSCH-Power,
MaximumTransmissionPower,
Max-Number-of-PCPCHes,
MaxNrOfUL-DPDCHs,
MaxPRACH-MidambleShifts,
MeasurementFilterCoefficient,
MeasurementID,
MidambleAllocationMode,
MidambleShiftAndBurstType,
MidambleShiftLCR,
MinimumDL-PowerCapability,
MinSpreadingFactor,
MinUL-ChannelisationCodeLength,
```

```
MultiplexingPosition,
NEOT,
NCyclesPerSFNperiod,
NFmax,
NRepetitionsPerCyclePeriod,
N-INSYNC-IND,
N-OUTSYNC-IND,
NeighbouringCellMeasurementInformation,
NeighbouringFDDCellMeasurementInformation,
NeighbouringTDDCellMeasurementInformation,
NodeB-CommunicationContextID,
NStartMessage,
NSubCyclesPerCyclePeriod,
PagingIndicatorLength,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PCP-Length,
PDSCH-CodeMapping,
PDSCHSet-ID,
PDSCH-ID,
PICH-Mode,
PICH-Power,
PowerAdjustmentType,
PowerOffset,
PowerRaiseLimit,
PRACH-Midamble,
PreambleSignatures,
PreambleThreshold,
PredictedSFNSFNDeviationLimit,
PredictedTUTRANGPSDeviationLimit,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
SCH-TimeSlot,
PunctureLimit,
PUSCHSet-ID,
PUSCH-ID,
QE-Selector,
Qth-Parameter,
RACH-SlotFormat,
RACH-SubChannelNumbers,
ReferenceClockAvailability,
ReferenceSFNoffset,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
RequestedDataValue,
RequestedDataValueInformation,
ResourceOperationalState,
RL-Set-ID,
RL-ID,
RL-Specific-DCH-Info,
Received-total-wide-band-power-Value,
```

```
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
RNC-ID,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
Segment-Type,
S-FieldLength,
SFN,
SFNSFNChangeLimit,
SFNSFNDriftRate,
SFNSFNDriftRateQuality,
SFNSFNQuality,
ShutdownTimer,
SIB-Originator,
SpecialBurstScheduling,
SignallingBearerRequestIndicator,
SSDT-Cell-Identity,
SSDT-CellID-Length,
SSDT-Indication,
Start-Of-Audit-Sequence-Indicator,
STTD-Indicator,
SSDT-SupportIndicator,
SyncCase,
SYNCDlCodeId,
SyncFrameNumber,
SynchronisationReportCharacteristics,
SynchronisationReportType,
T-Cell,
T-RLFAILURE,
TDD-ChannelisationCode,
TDD-ChannelisationCodeLCR,
TDD-DL-Code-LCR-Information,
TDD-DPCHOffset,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TDD-UL-Code-LCR-Information,
TFCI2-BearerInformationResponse,
TFCI2BearerRequestIndicator,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TimeSlot,
TimeSlotLCR,
TimeSlotDirection,
TimeSlotStatus,
TimingAdjustmentValue,
TimingAdvanceApplied,
ToAWE,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,
```

```
        TransmissionGapPatternSequenceCodeInformation,
        Transmission-Gap-Pattern-Sequence-Information,
        TransportBearerRequestIndicator,
        TransportFormatSet,
        TransportLayerAddress,
        TSTD-Indicator,
        TUTRANGPS,
        TUTRANGPSChangeLimit,
        TUTRANGPSDriftRate,
        TUTRANGPSDriftRateQuality,
        TUTRANGPSQuality,
        UARFCN,
        UC-Id,
        USCH-Information,
        USCH-InformationResponse,
        UL-CapacityCredit,
        UL-DPCCH-SlotFormat,
        UL-SIR,
        UL-FP-Mode,
        UL-PhysCH-SF-Variation,
        UL-ScramblingCode,
        UL-Timeslot-Information,
        UL-TimeslotLCR-Information,
        UL-TimeSlot-ISCP-Info,
        UL-TimeSlot-ISCP-LCR-Info,
        UL-TimeslotISCP-Value,
        UL-TimeslotISCP-Value-IncrDecrThres,
        USCH-ID,
        HSDSCH-FDD-Information,
        HSDSCH-FDD-Information-Response,
        HSDSCH-Information-to-Modify,
        HSDSCH-MACdFlow-ID,
        HSDSCH-RNTI,
        HSDSCH-TDD-Information,
        HSDSCH-TDD-Information-Response,
        PrimaryCCPCH-RSCP,
        HSDSCH-FDD-Update-Information,
        HSDSCH-TDD-Update-Information,
        UL-Synchronisation-Parameters-LCR,
        TDD-DL-DPCH-TimeSlotFormat-LCR,
        TDD-UL-DPCH-TimeSlotFormat-LCR
FROM NBAP-IEs

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

```
        id-Active-Pattern-Sequence-Information,
        id-AdjustmentRatio,
        id-AICH-Information,
        id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
        id-AP-AICH-Information,
        id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
        id-BCH-Information,
        id-BCCH-ModificationTime,
        id-bindingID,
        id-BlockingPriorityIndicator,
        id-Cause,
        id-CauseLevel-PSCH-ReconfFailure,
        id-CauseLevel-RL-AdditionFailureFDD,
        id-CauseLevel-RL-AdditionFailureTDD,
        id-CauseLevel-RL-ReconfFailure,
        id-CauseLevel-RL-SetupFailureFDD,
        id-CauseLevel-RL-SetupFailureTDD,
        id-CauseLevel-SyncAdjustmntFailureTDD,
        id-CCP-InformationItem-AuditRsp,
        id-CCP-InformationList-AuditRsp,
        id-CCP-InformationItem-ResourceStatusInd,
        id-CCTrCH-InformationItem-RL-FailureInd,
        id-CCTrCH-InformationItem-RL-RestoreInd,
        id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD,
        id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD,
        id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD,
        id-CDCA-ICH-Information,
        id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,
        id-CellAdjustmentInfo-SyncAdjustmntRqstTDD,
        id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD,
        id-Cell-InformationItem-AuditRsp,
        id-Cell-InformationItem-ResourceStatusInd,
        id-Cell-InformationList-AuditRsp,
        id-CellParameterID,
        id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD,
        id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD,
        id-cellSyncBurstRepetitionPeriod,
        id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD,
        id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD,
        id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD,
        id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
        id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,
        id-CellSyncInfo-CellSyncReprtTDD,
        id-CFN,
        id-CFNReportingIndicator,
        id-C-ID,
        id-Closed-Loop-Timing-Adjustment-Mode,
        id-CommonMeasurementAccuracy,
        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-CommunicationContextInfoItem-Reset,
id-CommunicationControlPortID,
id-CommunicationControlPortInfoItem-Reset,
id-Compressed-Mode-Deactivation-Flag,
id-ConfigurationGenerationID,
id-CPCH-Information,
id-CPCH-Parameters-CTCH-SetupRsp,
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,
id-CRNC-CommunicationContextID,
id-CriticalityDiagnostics,
id-CSBTransmissionID,
id-CSBMeasurementID,
id-DCHs-to-Add-FDD,
id-DCHs-to-Add-TDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRqstFDD,
id-DCH-DeleteList-RL-ReconfRqstTDD,
id-DCH-FDD-Information,
id-DCH-TDD-Information,
id-DCH-InformationResponse,
id-DCH-RearrangeList-Bearer-RearrangeInd,
id-DSCH-RearrangeList-Bearer-RearrangeInd,
id-FDD-DCHs-to-Modify,
id-TDD-DCHs-to-Modify,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DelayedActivation,
id-DelayedActivationList-RL-ActivationCmdFDD,
id-DelayedActivationList-RL-ActivationCmdTDD,
id-DelayedActivationInformation-RL-ActivationCmdFDD,
id-DelayedActivationInformation-RL-ActivationCmdTDD,
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,
id-DL-DPCH-InformationList-RL-SetupRqstTDD,
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
```

```
            id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
            id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
            id-DL-DPCH-Information-RL-ReconfPrepFDD,
            id-DL-DPCH-Information-RL-ReconfRqstFDD,
            id-DL-DPCH-Information-RL-SetupRqstFDD,
            id-DL-DPCH-TimingAdjustment,
            id-DL-PowerBalancing-Information,
            id-DL-PowerBalancing-ActivationIndicator,
            id-DL-ReferencePowerInformationItem-DL-PC-Rqst,
            id-DL-PowerBalancing-UpdatedIndicator,
            id-DLReferencePower,
            id-DLReferencePowerList-DL-PC-Rqst,
            id-DL-TPC-Pattern01Count,
            id-DPC-Mode,
            id-DPCHConstant,
            id-DSCH-AddItem-RL-ReconfPrepFDD,
            id-DSCHs-to-Add-FDD,
            id-DSCH-DeleteItem-RL-ReconfPrepFDD,
            id-DSCH-DeleteList-RL-ReconfPrepFDD,
            id-DSCHs-to-Add-TDD,
            id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,
            id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,
            id-DSCH-InformationResponse,
            id-DSCH-FDD-Information,
            id-DSCH-FDD-Common-Information,
            id-DSCH-TDD-Information,
            id-DSCH-ModifyItem-RL-ReconfPrepFDD,
            id-DSCH-ModifyList-RL-ReconfPrepFDD,
            id-End-Of-Audit-Sequence-Indicator,
            id-EnhancedDSCHPC,
            id-EnhancedDSCHPCIndicator,
            id-FACH-Information,
            id-FACH-ParametersList-CTCH-ReconfRqstTDD,
            id-FACH-ParametersList-CTCH-SetupRsp,
            id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,
            id-FACH-ParametersListIE-CTCH-SetupRqstFDD,
            id-FACH-ParametersListIE-CTCH-SetupRqstTDD,
            id-IndicationType-ResourceStatusInd,
            id-InformationExchangeID,
            id-InformationExchangeObjectType-InfEx-Rqst,
            id-InformationExchangeObjectType-InfEx-Rsp,
            id-InformationExchangeObjectType-InfEx-Rprt,
            id-InformationReportCharacteristics,
            id-InformationType,
            id-InitDL-Power,
            id-InnerLoopDLPCStatus,
            id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD,
            id-IPDLParameter-Information-Cell-ReconfRqstFDD,
            id-IPDLParameter-Information-Cell-SetupRqstFDD,
            id-IPDLParameter-Information-Cell-ReconfRqstTDD,
            id-IPDLParameter-Information-Cell-SetupRqstTDD,
            id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD,
            id-Limited-power-increase-information-Cell-SetupRqstFDD,
```

```
        id-Local-Cell-ID,
        id-Local-Cell-Group-InformationItem-AuditRsp,
        id-Local-Cell-Group-InformationItem-ResourceStatusInd,
        id-Local-Cell-Group-InformationItem2-ResourceStatusInd,
        id-Local-Cell-Group-InformationList-AuditRsp,
        id-Local-Cell-InformationItem-AuditRsp,
        id-Local-Cell-InformationItem-ResourceStatusInd,
        id-Local-Cell-InformationItem2-ResourceStatusInd,
        id-Local-Cell-InformationList-AuditRsp,
        id-AdjustmentPeriod,
        id-MaxAdjustmentStep,
        id-MaximumTransmissionPower,
        id-MeasurementFilterCoefficient,
        id-MeasurementID,
        id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,
        id-NCyclesPerSFNperiod,
        id-NeighbouringCellMeasurementInformation,
        id-NodeB-CommunicationContextID,
        id-NRepetitionsPerCyclePeriod,
        id-P-CCPCH-Information,
        id-P-CPICH-Information,
        id-P-SCH-Information,
        id-PCCPCH-Information-Cell-ReconfRqstTDD,
        id-PCCPCH-Information-Cell-SetupRqstTDD,
        id-PCH-Parameters-CTCH-ReconfRqstTDD,
        id-PCH-Parameters-CTCH-SetupRsp,
        id-PCH-ParametersItem-CTCH-ReconfRqstFDD,
        id-PCH-ParametersItem-CTCH-SetupRqstFDD,
        id-PCH-ParametersItem-CTCH-SetupRqstTDD,
        id-PCH-Information,
        id-PCPCH-Information,
        id-PICH-ParametersItem-CTCH-ReconfRqstFDD,
        id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,
        id-PDSCH-Information-Cell-SetupRqstFDD,
        id-PDSCH-Information-Cell-ReconfRqstFDD,
        id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,
        id-PDSCH-RL-ID,
        id-PDSCHSets-AddList-PSCH-ReconfRqst,
        id-PDSCHSets-DeleteList-PSCH-ReconfRqst,
        id-PDSCHSets-ModifyList-PSCH-ReconfRqst,
        id-PICH-Information,
        id-PICH-Parameters-CTCH-ReconfRqstTDD,
        id-PICH-ParametersItem-CTCH-SetupRqstTDD,
        id-PowerAdjustmentType,
        id-Power-Local-Cell-Group-InformationItem-AuditRsp,
        id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd,
        id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd,
        id-Power-Local-Cell-Group-InformationList-AuditRsp,
        id-Power-Local-Cell-Group-InformationList-ResourceStatusInd,
        id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd,
        id-Power-Local-Cell-Group-ID,
        id-PRACH-Information,
        id-PRACHConstant,
```

```
        id-PRACH-ParametersItem-CTCH-SetupRqstTDD,
        id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,
        id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,
        id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,
        id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,
        id-PrimaryCPICH-Information-Cell-SetupRqstFDD,
        id-PrimarySCH-Information-Cell-ReconfRqstFDD,
        id-PrimarySCH-Information-Cell-SetupRqstFDD,
        id-PrimaryScramblingCode,
        id-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-Qth-Parameter,
        id-RACH-Information,
        id-RACH-Parameters-CTCH-SetupRsp,
        id-RACH-ParametersItem-CTCH-SetupRqstFDD,
        id-RACH-ParameterItem-CTCH-SetupRqstTDD,
        id-ReferenceClockAvailability,
        id-ReferenceSFNoffset,
        id-ReportCharacteristics,
        id-Reporting-Object-RL-FailureInd,
        id-Reporting-Object-RL-RestoreInd,
        id-ResetIndicator,
        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-PreemptRequiredInd,
        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-PreemptRequiredInd,
        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-RL-ReconfigurationFailureItem-RL-ReconfFailure,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-Set-InformationItem-DM-Rsp,
id-RL-Set-InformationItem-RL-FailureInd,
id-RL-Set-InformationItem-RL-RestoreInd,
id-RL-Specific-DCH-Info,
id-S-CCPCH-Information,
id-S-CPICH-Information,
id-SCH-Information,
id-S-SCH-Information,
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-SFN,
id-SFNReportingIndicator,
id-ShutdownTimer,
id-SignallingBearerRequestIndicator,
id-SSDT-CellIDforEDSCHPC,
id-Start-Of-Audit-Sequence-Indicator,
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,
id-Synchronisation-Configuration-Cell-ReconfRqst,
id-Synchronisation-Configuration-Cell-SetupRqst,
id-SyncCase,
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,
id-SyncFrameNumber,
id-SynchronisationReportType,
id-SynchronisationReportCharacteristics,
id-SyncReportType-CellSyncReprtTDD,
id-T-Cell,
id-TargetCommunicationControlPortID,
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,
id-TFCI2-BearerInformationResponse,
id-TFCI2BearerRequestIndicator,
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,
id-Transmission-Gap-Pattern-Sequence-Information,
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,
id-timeslotInfo-CellSyncInitiationRqstTDD,
id-TimeslotISCPInfo,
```

```
            id-TimingAdvanceApplied,
            id-TransmissionDiversityApplied,
            id-transportlayeraddress,
            id-UARFCNforNt,
            id-UARFCNforNd,
            id-UARFCNforNu,
            id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
            id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
            id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
            id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
            id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
            id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,
            id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
            id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
            id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
            id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
            id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
            id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,
            id-UL-DPCH-InformationList-RL-SetupRqstTDD,
            id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
            id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
            id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
            id-UL-DPCH-Information-RL-ReconfPrepFDD,
            id-UL-DPCH-Information-RL-ReconfRqstFDD,
            id-UL-DPCH-Information-RL-SetupRqstFDD,
            id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD,
            id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,
            id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,
            id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,
            id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,
            id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,
            id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,
            id-USCH-Information-Add,
            id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
            id-USCH-Information-ModifyList-RL-ReconfPrepTDD,
            id-USCH-InformationResponse,
            id-USCH-Information,
            id-USCH-RearrangeList-Bearer-RearrangeInd,
            id-DL-DPCH-LCR-Information-RL-SetupRqstTDD,
            id-DwPCH-LCR-Information,
            id-DwPCH-LCR-InformationList-AuditRsp,
            id-DwPCH-LCR-Information-Cell-SetupRqstTDD,
            id-DwPCH-LCR-Information-Cell-ReconfRqstTDD,
            id-DwPCH-LCR-Information-ResourceStatusInd,
            id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,
            id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD,
            id-FPACH-LCR-Information,
            id-FPACH-LCR-Information-AuditRsp,
            id-FPACH-LCR-InformationList-AuditRsp,
            id-FPACH-LCR-InformationList-ResourceStatusInd,
            id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD,
            id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,
            id-PCCPCH-LCR-Information-Cell-SetupRqstTDD,
```

```
    id-PCH-Power-LCR-CTCH-SetupRqstTDD,
    id-PCH-Power-LCR-CTCH-ReconfRqstTDD,
    id-PICH-LCR-Parameters-CTCH-SetupRqstTDD,
        id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD,
    id-RL-InformationResponse-LCR-RL-SetupRspTDD,
    id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD,
    id-TimeSlot,
    id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,
    id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,
    id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD,
    id-TimeSlotLCR-CM-Rqst,
 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD,
    id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,
    id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,
    id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD,
    id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,
    id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,
    id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,
    id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD,
    id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,
    id-UL-DPCH-LCR-InformationModify-AddList,
    id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD,
    id-UL-SIRTarget,
    id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst,
    id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
    id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
    id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
    id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst,
    id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
    id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
    id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
    id-PUSCH-Info-DM-Rqst,
    id-PUSCH-Info-DM-Rsp,
    id-PUSCH-Info-DM-Rprt,
    id-RL-InformationResponse-LCR-RL-AdditionRspTDD,
    id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD,
    id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD,
    id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst,
    id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst,
    id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst,
    id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst,
    id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst,
    id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,
    id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,
    id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,
    id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD,
    id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD,
    id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD,
    id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD,
    id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD,
    id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD,
    id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD,
    id-DwPCH-Power,
```

```
        id-AccumulatedClockupdate-CellSyncReprtTDD,
        id-HSDSCH-FDD-Information,
        id-HSDSCH-FDD-Information-Response,
        id-HSDSCH-FDD-Information-to-Add,
        id-HSDSCH-FDD-Information-to-Delete,
        id-HSDSCH-Information-to-Modify,
        id-HSDSCH-RearrangeList-Bearer-RearrangeInd,
        id-HSDSCH-RNTI,
        id-HSDSCH-TDD-Information,
        id-HSDSCH-TDD-Information-Response,
        id-HSDSCH-TDD-Information-Response-LCR,
        id-HSDSCH-TDD-Information-to-Add,
        id-HSDSCH-TDD-Information-to-Delete,
        id-HSPDSCH-RL-ID,
        id-HSSICH-Info-DM-Rprt,
        id-HSSICH-Info-DM-Rqst,
        id-HSSICH-Info-DM-Rsp,
        id-PrimCCPCH-RSCP-DL-PC-RqstTDD,
        id-HSDSCH-FDD-Update-Information,
        id-HSDSCH-TDD-Update-Information,
        id-UL-Synchronisation-Parameters-LCR,
        id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,
        id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,

        maxNrOfCCTrCHs,
        maxNrOfCellSyncBursts,
        maxNrOfCodes,
        maxNrOfCPCHs,
        maxNrOfDCHs,
        maxNrOfDLTSs,
        maxNrOfDLTSLCRs,
        maxNrOfDPCHs,
        maxNrOfDSCHs,
        maxNrOfFACHs,
        maxNrOfRLs,
        maxNrOfRLs-1,
        maxNrOfRLs-2,
        maxNrOfRLSets,
        maxNrOfPCPCHs,
        maxNrOfPDSCHs,
        maxNrOfPUSCHs,
        maxNrOfPRACHLCRs,
        maxNrOfPDSCHSets,
        maxNrOfPUSCHSets,
        maxNrOfReceptsPerSyncFrame,
        maxNrOfSCCPCHs,
        maxNrOfSCCPCHLCRs,
        maxNrOfULTSs,
        maxNrOfULTSLCRs,
        maxNrOfUSCHs,
        maxAPSigNum,
        maxCPCHCell,
        maxFACHCell,
```

```
        maxFPACHCell,
        maxNoofLen,
        maxRACHCell,
        maxPCPCHCell,
        maxPRACHCell,
        maxSCCPCHCell,
        maxSCPICHCell,
        maxCellinNodeB,
        maxCCPinNodeB,
        maxCommunicationContext,
        maxLocalCellinNodeB,
        maxNrOfSlotFormatsPRACH,
        maxIB,
        maxIBSEG,
        maxNrOfHSSCCHs,
        maxNrOfHSSICHs,
        maxNrOfSyncFramesLCR,
        maxNrOfReceptionsperSyncFrameLCR,
        maxNrOfSyncDLCodesLCR,
        maxNrOfMACdFlows
FROM NBAP-Constants;
```

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

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

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

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

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

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

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

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

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

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

RL-InformationItem-DM-Rqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PUSCH-Info-DM-Rqst       CRITICALITY reject            EXTENSION   PUSCH-Info-DM-Rqst                    PRESENCE optional}|
    -- TDD only
    { ID id-HSSICH-Info-DM-Rqst      CRITICALITY reject            EXTENSION   HSSICH-Info-DM-Rqst                   PRESENCE optional},
    -- TDD only
    ...
}

PUSCH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID

HSSICH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID

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

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

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

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

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

AllRL-DM-Rqst ::= NULL


AllRL-Set-DM-Rqst ::= NULL
```

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

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

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

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

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

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

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

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

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

RL-InformationItem-DM-Rsp ::= SEQUENCE {
```

```
    rL-ID                               RL-ID,
    dPCH-ID                             DPCH-ID         OPTIONAL,   -- for TDD only
    dedicatedMeasurementValue           DedicatedMeasurementValue,
    cFN                                 CFN             OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { RL-InformationItem-DM-Rsp-ExtIEs } }          OPTIONAL,
    ...
}

RL-InformationItem-DM-Rsp-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-Info-DM-Rsp          CRITICALITY reject               EXTENSION   PUSCH-Info-DM-Rsp                 PRESENCE optional},}|
    -- TDD only
    {ID id-HSSICH-Info-DM-Rsp         CRITICALITY reject               EXTENSION   HS-SICH-ID                        PRESENCE optional},
    -- TDD only
    ...
}

PUSCH-Info-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID

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

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

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

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

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

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

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

DedicatedMeasurementInitiationFailure ::= SEQUENCE {
```

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

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

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

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

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

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

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

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

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

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

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

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

RL-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-ID                            RL-ID,
    dPCH-ID                          DPCH-ID    OPTIONAL,      -- for TDD only
    dedicatedMeasurementValueInformation    DedicatedMeasurementValueInformation,
    iE-Extensions                    ProtocolExtensionContainer { { RL-InformationItem-DM-Rprt-ExtIEs } }              OPTIONAL,
    ...
}

RL-InformationItem-DM-Rprt-ExtIEs   NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-Info-DM-Rprt         CRITICALITY reject              EXTENSION   PUSCH-Info-DM-Rprt              PRESENCE optional},}|
    -- TDD only
    {ID id-HSSICH-Info-DM-Rprt        CRITICALITY reject              EXTENSION   HS-SICH-ID                     PRESENCE optional},
    -- TDD only
    ...
}

PUSCH-Info-DM-Rprt ::= SEQUENCE (SIZE (0..maxNrOfPUSCHs)) OF PUSCH-ID

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

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

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

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

RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-Set-ID                        RL-Set-ID,
    dedicatedMeasurementValueInformation    DedicatedMeasurementValueInformation,
```

```
    iE-Extensions                     ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
    ...
}

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

```
-- **************************************************************
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
--
-- **************************************************************

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

PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-C-ID                                        CRITICALITY    reject        TYPE    C-ID
PRESENCE    mandatory    } |
    { ID    id-SFN                                         CRITICALITY    reject        TYPE    SFN
PRESENCE    optional} |
    { ID    id-PDSCHSets-AddList-PSCH-ReconfRqst           CRITICALITY    reject        TYPE    PDSCHSets-AddList-PSCH-ReconfRqst        PRESENCE
optional    } |
    { ID    id-PDSCHSets-ModifyList-PSCH-ReconfRqst        CRITICALITY    reject        TYPE    PDSCHSets-ModifyList-PSCH-ReconfRqst     PRESENCE
optional    } |
    { ID    id-PDSCHSets-DeleteList-PSCH-ReconfRqst        CRITICALITY    reject        TYPE    PDSCHSets-DeleteList-PSCH-ReconfRqst     PRESENCE
optional    } |
    { ID    id-PUSCHSets-AddList-PSCH-ReconfRqst           CRITICALITY    reject        TYPE    PUSCHSets-AddList-PSCH-ReconfRqst        PRESENCE
optional    } |
    { ID    id-PUSCHSets-ModifyList-PSCH-ReconfRqst        CRITICALITY    reject        TYPE    PUSCHSets-ModifyList-PSCH-ReconfRqst     PRESENCE
optional    } |
    { ID    id-PUSCHSets-DeleteList-PSCH-ReconfRqst        CRITICALITY    reject        TYPE    PUSCHSets-DeleteList-PSCH-ReconfRqst     PRESENCE
optional    },
    ...
}

PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID    id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst          CRITICALITY    reject      EXTENSION HS-PDSCH-TDD-Information-PSCH-ReconfRqst
PRESENCE    optional    } |
    { ID    id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst     CRITICALITY    reject      EXTENSION Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
        PRESENCE    optional    } |
    { ID    id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst     CRITICALITY    reject      EXTENSION Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
        PRESENCE    optional    } |
    { ID    id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst    CRITICALITY    reject      EXTENSION Delete-From-HS-SCCH-Resource-Pool-PSCH-
ReconfRqst       PRESENCE    optional    },
    ...
}

PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst

PDSCHSets-AddItem-PSCH-ReconfRqst    ::= SEQUENCE {
    pDSCHSet-ID                            PDSCHSet-ID,
    pDSCH-InformationList                  PDSCH-Information-AddList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}
```

```
PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst    CRITICALITY reject     EXTENSION   PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE    optional}, -- Mandatory for 1.28Mcps TDD
    ...
}

PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD

PDSCH-Information-AddListIEs-PSCH-ReconfRqst   NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject    TYPE    PDSCH-Information-AddItem-PSCH-ReconfRqst      PRESENCE
    mandatory}
}

PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                          RepetitionPeriod,
    repetitionLength                          RepetitionLength,
    tdd-PhysicalChannelOffset                 TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-PSCH-ReconfRqst            DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions                             ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
    }

PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                          TimeSlot,
    midambleShiftAndBurstType         MidambleShiftAndBurstType,
    tFCI-Presence                     TFCI-Presence,
    dL-Code-InformationAddList-PSCH-ReconfRqst            DL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions                     ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                          PDSCH-ID,
    tdd-ChannelisationCode            TDD-ChannelisationCode,
    iE-Extensions                     ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
```

```
}

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                            RepetitionPeriod,
    repetitionLength                            RepetitionLength,
    tdd-PhysicalChannelOffset                   TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst          DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions                               ProtocolExtensionContainer { {PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
    }

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                                 TimeSlotLCR,
    midambleShiftLCR                            MidambleShiftLCR,
    tFCI-Presence                               TFCI-Presence,
    dL-Code-InformationAddList-LCR-PSCH-ReconfRqst          DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions                               ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                                    PDSCH-ID,
    tdd-ChannelisationCodeLCR                   TDD-ChannelisationCodeLCR,
    iE-Extensions                               ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }     OPTIONAL,
    ...
}

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst

PDSCHSets-ModifyItem-PSCH-ReconfRqst    ::= SEQUENCE {
    pDSCHSet-ID                                 PDSCHSet-ID,
    pDSCH-InformationList                       PDSCH-Information-ModifyList-PSCH-ReconfRqst,
    iE-Extensions                               ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
```

```
    {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst  CRITICALITY reject      EXTENSION   PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
       PRESENCE   optional},  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    ...
}

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst  CRITICALITY reject      TYPE    PDSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE   optional}  -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                         RepetitionPeriod                   OPTIONAL,
    repetitionLength                         RepetitionLength                   OPTIONAL,
    tdd-PhysicalChannelOffset                TDD-PhysicalChannelOffset     OPTIONAL,
    dL-Timeslot-InformationModifyList-PSCH-ReconfRqst         DL-Timeslot-InformationModifyList-PSCH-ReconfRqst   OPTIONAL,
    iE-Extensions                            ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
    }

PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                          TimeSlot,
    midambleShiftAndBurstType         MidambleShiftAndBurstType   OPTIONAL,
    tFCI-Presence                     TFCI-Presence   OPTIONAL,
    dL-Code-InformationModifyList-PSCH-ReconfRqst             DL-Code-InformationModifyList-PSCH-ReconfRqst        OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                          PDSCH-ID,
    tdd-ChannelisationCode            TDD-ChannelisationCode,
    iE-Extensions                     ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                            RepetitionPeriod                        OPTIONAL,
    repetitionLength                            RepetitionLength                        OPTIONAL,
    tdd-PhysicalChannelOffset                   TDD-PhysicalChannelOffset       OPTIONAL,
    dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst           DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { {PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
    }

PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                                 TimeSlotLCR,
    midambleShiftLCR                            MidambleShiftLCR    OPTIONAL,
    tFCI-Presence                               TFCI-Presence   OPTIONAL,
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst              DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                                    PDSCH-ID,
    tdd-ChannelisationCodeLCR                   TDD-ChannelisationCodeLCR,
    iE-Extensions                               ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }     OPTIONAL,
    ...
}

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst

PDSCHSets-DeleteItem-PSCH-ReconfRqst     ::= SEQUENCE {
    pDSCHSet-ID                                 PDSCHSet-ID,
    iE-Extensions                               ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
```

```
}

PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst

PUSCHSets-AddItem-PSCH-ReconfRqst    ::= SEQUENCE {
    pUSCHSet-ID                             PUSCHSet-ID,
    pUSCH-InformationList                   PUSCH-Information-AddList-PSCH-ReconfRqst   OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    iE-Extensions                           ProtocolExtensionContainer { {PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst    CRITICALITY reject     EXTENSION   PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE    optional},  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    ...
}

PUSCH-Information-AddList-PSCH-ReconfRqst ::=  ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst  CRITICALITY reject     TYPE    PUSCH-Information-AddItem-PSCH-ReconfRqst       PRESENCE
    mandatory}
}

PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                        RepetitionPeriod,
    repetitionLength                        RepetitionLength,
    tdd-PhysicalChannelOffset               TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRqst          UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions                           ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
    }

PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                                TimeSlot,
    midambleShiftAndBurstType               MidambleShiftAndBurstType,
    tFCI-Presence                           TFCI-Presence,
    uL-Code-InformationAddList-PSCH-ReconfRqst             UL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions                           ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst

UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                                PUSCH-ID,
    tdd-ChannelisationCode                  TDD-ChannelisationCode,
    iE-Extensions                           ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                        RepetitionPeriod,
    repetitionLength                        RepetitionLength,
    tdd-PhysicalChannelOffset               TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst         UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions                           ProtocolExtensionContainer { {PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
    }

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                             TimeSlotLCR,
    midambleShiftLCR                        MidambleShiftLCR,
    tFCI-Presence                           TFCI-Presence,
    uL-Code-InformationAddList-LCR-PSCH-ReconfRqst         UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions                           ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                                PUSCH-ID,
    tdd-ChannelisationCodeLCR               TDD-ChannelisationCodeLCR,
    iE-Extensions                           ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }     OPTIONAL,
    ...
}

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

PUSCHSets-ModifyItem-PSCH-ReconfRqst      ::= SEQUENCE {
    pUSCHSet-ID                              PUSCHSet-ID,
    pUSCH-InformationList                    PUSCH-Information-ModifyList-PSCH-ReconfRqst    OPTIONAL,
    -- Applicable to 3.84Mcps TDD only
    iE-Extensions                            ProtocolExtensionContainer { {PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst  CRITICALITY reject      EXTENSION    PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
        PRESENCE    optional},  -- Applicable to 1.28Mcps TDD only
    ...
}

PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst   CRITICALITY reject     TYPE    PUSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE    mandatory}
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                        RepetitionPeriod               OPTIONAL,
    repetitionLength                        RepetitionLength               OPTIONAL,
    tdd-PhysicalChannelOffset               TDD-PhysicalChannelOffset      OPTIONAL,
    uL-Timeslot-InformationModifyList-PSCH-ReconfRqst          UL-Timeslot-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
      ...
    }

PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                               TimeSlot,
    midambleShiftAndBurstType              MidambleShiftAndBurstType   OPTIONAL,
    tFCI-Presence                          TFCI-Presence   OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst             UL-Code-InformationModifyList-PSCH-ReconfRqst          OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }     OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst
```

```
UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                                PUSCH-ID,
    tdd-ChannelisationCode                  TDD-ChannelisationCode,
    iE-Extensions                           ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                        RepetitionPeriod        OPTIONAL,
    repetitionLength                        RepetitionLength        OPTIONAL,
    tdd-PhysicalChannelOffset               TDD-PhysicalChannelOffset   OPTIONAL,
    uL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst         UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { {PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
        ...
    }

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                             TimeSlotLCR,
    midambleShiftLCR                        MidambleShiftLCR    OPTIONAL,
    tFCI-Presence                           TFCI-Presence       OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst           UL-Code-InformationModifyList-PSCH-ReconfRqst         OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                                PUSCH-ID,
    tdd-ChannelisationCodeLCR               TDD-ChannelisationCodeLCR,
    iE-Extensions                           ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }     OPTIONAL,
    ...
}

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
```

```
}

PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst

PUSCHSets-DeleteItem-PSCH-ReconfRqst     ::= SEQUENCE {
    pUSCHSet-ID                          PUSCHSet-ID,
    iE-Extensions                        ProtocolExtensionContainer { {PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-PDSCH-TDD-Information-PSCH-ReconfRqst ::= CHOICE {
    replace                    HS-PDSCH-TDD-TSInfo-PSCH-ReconfRqst,
    remove                     NULL,
    ...
}

HS-PDSCH-TDD-TSInfo-PSCH-ReconfRqst ::= SEQUENCE {
    dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst              DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst    OPTIONAL,
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst          DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions                        ProtocolExtensionContainer { { HS-PDSCH-TDD-TSInfo-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
        ...
    }

HS-PDSCH-TDD-TSInfo-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst

DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst::= SEQUENCE {
    timeSlot                             TimeSlot,
    midambleShiftAndBurstType            MidambleShiftAndBurstType,
    iE-Extensions                        ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-
ReconfRqst

DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst::= SEQUENCE {
    timeSlot                             TimeSlotLCR,
    midambleShiftAndBurstType            MidambleShiftLCR,
    iE-Extensions                        ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
```

```
    ...
}

DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
    hS-SCCH-Information-PSCH-ReconfRqst      HS-SCCH-Information-PSCH-ReconfRqst     OPTIONAL,
    hS-SCCH-Information-LCR-PSCH-ReconfRqst  HS-SCCH-Information-PSCH-ReconfRqst     OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-Information-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRqst

HS-SCCH-InformationItem-PSCH-ReconfRqst  ::= SEQUENCE {
    hS-SCCH-ID                              HS-SCCH-ID,
    timeSlot                                TimeSlot,
    midambleShiftAndBurstType               MidambleShiftAndBurstType,
    tdd-ChannelisationCode                  TDD-ChannelisationCode,
    hS-SCCH-MaxPower                        DL-Power,
    hS-SICH-Information                     HS-SICH-Information-PSCH-ReconfRqst,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-Information-PSCH-ReconfRqst  ::= SEQUENCE {
    hsSICH-ID                               HS-SICH-ID,
    timeSlot                                TimeSlot,
    midambleShiftAndBurstType               MidambleShiftAndBurstType,
    tdd-ChannelisationCode                  TDD-ChannelisationCode,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SICH-Information-PSCH-ReconfRqst-ExtIEs} }     OPTIONAL,
    ...
}

HS-SICH-Information-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-Information-LCR-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst  ::= SEQUENCE {
    hS-SCCH-ID                              HS-SCCH-ID,
    timeSlotLCR                             TimeSlotLCR,
```

```
    midambleShiftLCR                        MidambleShiftLCR,
    first-TDD-ChannelisationCode            TDD-ChannelisationCodeLCR,
    second-TDD-ChannelisationCode           TDD-ChannelisationCodeLCR,
    hS-SCCH-MaxPower                        DL-Power,
    hS-SICH-Information-LCR                 HS-SICH-Information-LCR-PSCH-ReconfRqst,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}


HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


HS-SICH-Information-LCR-PSCH-ReconfRqst  ::= SEQUENCE {
    hsSICH-ID                               HS-SICH-ID,
    timeSlotLCR                             TimeSlotLCR,
    midambleShiftLCR                        MidambleShiftLCR,
    tdd-ChannelisationCodeLCR               TDD-ChannelisationCodeLCR,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}


HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
    hS-SCCH-InformationModify-PSCH-ReconfRqst       HS-SCCH-InformationModify-PSCH-ReconfRqst   OPTIONAL,
    hS-SCCH-InformationModify-LCR-PSCH-ReconfRqst   HS-SCCH-InformationModify-PSCH-ReconfRqst   OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}


Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


HS-SCCH-InformationModify-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRqst


HS-SCCH-InformationModifyItem-PSCH-ReconfRqst    ::= SEQUENCE {
    hS-SCCH-ID                              HS-SCCH-ID,
    timeSlot                                TimeSlot    OPTIONAL,
    midambleShiftAndBurstType               MidambleShiftAndBurstType   OPTIONAL,
    tdd-ChannelisationCode                  TDD-ChannelisationCode  OPTIONAL,
    hS-SCCH-MaxPower                        DL-Power    OPTIONAL,
    hS-SICH-Information                     HS-SICH-Information-PSCH-ReconfRqst     OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}


HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
```

```
}

HS-SICH-InformationModify-PSCH-ReconfRqst    ::= SEQUENCE {
    hsSICH-ID                               HS-SICH-ID,
    timeSlot                                TimeSlot    OPTIONAL,
    midambleShiftAndBurstType               MidambleShiftAndBurstType   OPTIONAL,
    tdd-ChannelisationCode                  TDD-ChannelisationCode  OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-InformationModify-LCR-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst    ::= SEQUENCE {
    hS-SCCH-ID                              HS-SCCH-ID,
    timeSlotLCR                             TimeSlotLCR     OPTIONAL,
    midambleShiftLCR                        MidambleShiftLCR    OPTIONAL,
    first-TDD-ChannelisationCode            TDD-ChannelisationCodeLCR   OPTIONAL,
    second-TDD-ChannelisationCode           TDD-ChannelisationCodeLCR   OPTIONAL,
    hS-SCCH-MaxPower                        DL-Power    OPTIONAL,
    hS-SICH-Information-LCR                  HS-SICH-Information-LCR-PSCH-ReconfRqst     OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst    ::= SEQUENCE {
    hsSICH-ID                               HS-SICH-ID,
    timeSlotLCR                             TimeSlotLCR     OPTIONAL,
    midambleShiftLCR                        MidambleShiftLCR    OPTIONAL,
    tdd-ChannelisationCodeLCR               TDD-ChannelisationCodeLCR   OPTIONAL,
    iE-Extensions                           ProtocolExtensionContainer { { HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs} }   OPTIONAL,
    ...
}

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst    ::= SEQUENCE {
    hS-SCCH-ID                              HS-SCCH-ID,
    iE-Extensions                           ProtocolExtensionContainer { { Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
```

```
}

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

9.3.4 Information Elements Definitions

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

NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfRLs,
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC,
    maxNrOfTFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCellSyncBursts,
    maxNrOfCodeGroups,
    maxNrOfMeasNCell,
    maxNrOfMeasNCell-1,
    maxNrOfReceptsPerSyncFrame,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxNrOfTFCI2Combs-1,
    maxNrOfSF,
    maxTGPS,
    maxNrOfUSCHs,
    maxNrOfULTSs,
    maxNrOfULTSLCRs,
    maxNrOfDPCHs,
    maxNrOfDPCHLCRs,
    maxNrOfCodes,
    maxNrOfDSCHs,
    maxNrOfDLTSs,
    maxNrOfDLTSLCRs,
    maxNrOfDCHs,
    maxNrOfLevels,
    maxNoGPSItems,
    maxNoSat,
    maxNrOfHSSCCHs,
    maxNrOfHSSCCHCodes,
    maxNrOfMACdFlows,
```

```
    maxNrOfMACdFlows-1,
    maxNrOfMACdPDUIndexes,
    maxNrOfMACdPDUIndexes-1,
    maxNrOfPriorityQueues,
    maxNrOfPriorityQueues-1,
    maxNrOfHARQProcesses,
    maxNrOfSyncDLCodesLCR,
    maxNrOfSyncFramesLCR,

    id-MessageStructure,
    id-ReportCharacteristicsType-OnModification,
    id-Rx-Timing-Deviation-Value-LCR,
    id-SFNSFNMeasurementValueInformation,
    id-SFNSFNMeasurementThresholdInformation,
    id-TUTRANGPSMeasurementValueInformation,
    id-TUTRANGPSMeasurementThresholdInformation,
    id-TypeOfError,
    id-transportlayeraddress,
    id-bindingID,
    id-Angle-Of-Arrival-Value-LCR,
    id-SyncDLCodeIdThreInfoLCR,
    id-neighbouringTDDCellMeasurementInformationLCR,
    id-HS-SICH-Reception-Quality,
    id-HS-SICH-Reception-Quality-Measurement-Value

FROM NBAP-Constants

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

    NBAP-PROTOCOL-IES,
    ProtocolExtensionContainer{},
    ProtocolIE-Single-Container{},
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;
```

```
-- =======================================
--  D
-- =======================================

DATA-ID ::= INTEGER (0..3)

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

DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem

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

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

DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item

DCH-Specific-FDD-Item ::=    SEQUENCE {
    dCH-ID                             DCH-ID,
    ul-TransportFormatSet              TransportFormatSet,
    dl-TransportFormatSet              TransportFormatSet,
    allocationRetentionPriority        AllocationRetentionPriority,
    frameHandlingPriority              FrameHandlingPriority,
    qE-Selector                        QE-Selector,
    iE-Extensions                      ProtocolExtensionContainer { { DCH-Specific-FDD-Item-ExtIEs} }           OPTIONAL,
    ...
}

DCH-Specific-FDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem

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

DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
    ...
}

DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem

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

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

DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item

DCH-Specific-TDD-Item ::=   SEQUENCE {
    dCH-ID                              DCH-ID,
    ul-CCTrCH-ID                        CCTrCH-ID,
    dl-CCTrCH-ID                        CCTrCH-ID,
    ul-TransportFormatSet               TransportFormatSet,
    dl-TransportFormatSet               TransportFormatSet,
    allocationRetentionPriority         AllocationRetentionPriority,
    frameHandlingPriority               FrameHandlingPriority,
    qE-Selector                         QE-Selector                 OPTIONAL,
    -- This IE shall be present if DCH is part of set of Coordinated DCHs
    iE-Extensions                       ProtocolExtensionContainer { { DCH-Specific-TDD-Item-ExtIEs} }        OPTIONAL,
    ...
}

DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem

FDD-DCHs-to-ModifyItem   ::= SEQUENCE {
    ul-FP-Mode                          UL-FP-Mode      OPTIONAL,
    toAWS                               ToAWS           OPTIONAL,
    toAWE                               ToAWE           OPTIONAL,
    transportBearerRequestIndicator     TransportBearerRequestIndicator,
    dCH-SpecificInformationList         DCH-ModifySpecificInformation-FDD,
    iE-Extensions                       ProtocolExtensionContainer { { FDD-DCHs-to-ModifyItem-ExtIEs} }        OPTIONAL,
    ...
}

FDD-DCHs-to-ModifyItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
```

```
}

DCH-ModifySpecificInformation-FDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD

DCH-ModifySpecificItem-FDD::=   SEQUENCE {
    dCH-ID                                      DCH-ID,
    ul-TransportFormatSet                       TransportFormatSet        OPTIONAL,
    dl-TransportFormatSet                       TransportFormatSet        OPTIONAL,
    allocationRetentionPriority                 AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority                       FrameHandlingPriority     OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { { DCH-ModifySpecificItem-FDD-ExtIEs} }     OPTIONAL,
    ...
}

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


TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-TDD

DCH-ModifyItem-TDD ::= SEQUENCE {
    ul-FP-Mode                      UL-FP-Mode      OPTIONAL,
    toAWS                           ToAWS           OPTIONAL,
    toAWE                           ToAWE           OPTIONAL,
    transportBearerRequestIndicator     TransportBearerRequestIndicator,
    dCH-SpecificInformationList         DCH-ModifySpecificInformation-TDD,
    iE-Extensions                       ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs} }               OPTIONAL,
    ...
}

TDD-DCHs-to-ModifyItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformation-TDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-TDD

DCH-ModifySpecificItem-TDD ::=   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,
    allocationRetentionPriority                 AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority                       FrameHandlingPriority   OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { { DCH-ModifySpecificItem-TDD-ExtIEs} }       OPTIONAL,
    ...
}

DCH-ModifySpecificItem-TDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
    SEQUENCE {
        dl-Cost-1       INTEGER (0..65535),
        dl-Cost-2       INTEGER (0..65535),
        ul-Cost-1       INTEGER (0..65535),
        ul-Cost-2       INTEGER (0..65535),
        iE-Extensions        ProtocolExtensionContainer { { DedicatedChannelsCapacityConsumptionLaw-ExtIEs } }        OPTIONAL,
    ...
}

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

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rscp,
    rx-timing-deviation,
    round-trip-time,
    ...,
    rx-timing-deviation-LCR,
    angle-Of-Arrival-LCR,
    hs-sich-quality
}

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value                    SIR-Value,
    sIR-ErrorValue               SIR-Error-Value,
    transmittedCodePowerValue        Transmitted-Code-Power-Value,
    rSCP                         RSCP-Value,
    rxTimingDeviationValue           Rx-Timing-Deviation-Value,
    roundTripTime                Round-Trip-Time-Value,
    ...,
    extension-DedicatedMeasurementValue    Extension-DedicatedMeasurementValue
}

Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}

Extension-DedicatedMeasurementValueIE NBAP-PROTOCOL-IES ::= {
    { ID id-Rx-Timing-Deviation-Value-LCR   CRITICALITY reject  TYPE Rx-Timing-Deviation-Value-LCR   PRESENCE mandatory }|
    { ID id-Angle-Of-Arrival-Value-LCR  CRITICALITY reject  TYPE Angle-Of-Arrival-Value-LCR PRESENCE mandatory } |
    { ID id-HS-SICH-Reception-Quality    CRITICALITY reject  TYPE HS-SICH-Reception-Quality-Value  PRESENCE mandatory },
    ...
}

DedicatedMeasurementValueInformation ::= CHOICE {
    measurementAvailable         DedicatedMeasurementAvailable,
    measurementnotAvailable      DedicatedMeasurementnotAvailable
```

```
}


DedicatedMeasurementAvailable::= SEQUENCE {
    dedicatedmeasurementValue        DedicatedMeasurementValue,
    cFN                              CFN                                OPTIONAL,
    ie-Extensions                    ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs} }        OPTIONAL,
    ...
}


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


DedicatedMeasurementnotAvailable ::= NULL

DelayedActivation ::= CHOICE {
    cfn                    CFN,
    separate-indication    NULL
}

DelayedActivationUpdate ::= CHOICE {
    activate        Activate-Info,
    deactivate      Deactivate-Info
}

Activate-Info ::= SEQUENCE {
    activation-type        Execution-Type,
    initial-dl-tx-power    DL-Power,
    firstRLS-Indicator     FirstRLS-Indicator                          OPTIONAL, --FDD Only
    propagation-delay      PropagationDelay                            OPTIONAL, --FDD Only
    iE-Extensions          ProtocolExtensionContainer { { Activate-Info-ExtIEs} }     OPTIONAL,
    ...
}


Activate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


Deactivate-Info ::= SEQUENCE {
    deactivation-type      Execution-Type,
    iE-Extensions          ProtocolExtensionContainer { { Deactivate-Info-ExtIEs} }        OPTIONAL,
    ...
}


Deactivate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
```

```
}

Execution-Type ::= CHOICE {
    synchronised    CFN,
    unsynchronised  NULL
}

Detected-PCPCH-access-preambles ::= INTEGER (0..240,...)
-- According to mapping in [22].

DeltaSIR                ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.

DGPSCorrections ::= SEQUENCE {
    gpstow              GPSTOW,
    status-health       GPS-Status-Health,
    satelliteinfo       SAT-Info-DGPSCorrections,
    ie-Extensions       ProtocolExtensionContainer { { DGPSCorrections-ExtIEs} }      OPTIONAL,
    ...
}

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

DGPSThresholds ::= SEQUENCE {
    prcdeviation        PRCDeviation,
    ie-Extensions       ProtocolExtensionContainer { { DGPSThresholds-ExtIEs} }    OPTIONAL,
    ...
}

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

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

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closed-loop-mode1,
    closed-loop-mode2,
    ...
}
```

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

DL-DPCH-TimingAdjustment ::= ENUMERATED {
    timing-advance,
    timing-delay
}

DL-Timeslot-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationItem

DL-Timeslot-InformationItem  ::= SEQUENCE {
    timeSlot                            TimeSlot,
    midambleShiftAndBurstType           MidambleShiftAndBurstType,
    tFCI-Presence                       TFCI-Presence,
    dL-Code-Information                 TDD-DL-Code-Information,
    iE-Extensions                       ProtocolExtensionContainer { { DL-Timeslot-InformationItem-ExtIEs} }     OPTIONAL,
    ...
}

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

DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-TimeslotLCR-InformationItem

DL-TimeslotLCR-InformationItem   ::= SEQUENCE {
    timeSlotLCR                         TimeSlotLCR,
    midambleShiftLCR                    MidambleShiftLCR,
    tFCI-Presence                       TFCI-Presence,
    dL-Code-LCR-Information             TDD-DL-Code-LCR-Information,
    iE-Extensions                       ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs} }   OPTIONAL,
    ...
}

DL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power/10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

DLPowerAveragingWindowSize ::= INTEGER (1..60)

DL-PowerBalancing-Information ::= SEQUENCE {
```

```
    powerAdjustmentType                   PowerAdjustmentType,
    dLReferencePower                      DL-Power        OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common'
    dLReferencePowerList-DL-PC-Rqst   DL-ReferencePowerInformationList        OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Individual'
    maxAdjustmentStep                     MaxAdjustmentStep       OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
    adjustmentPeriod                      AdjustmentPeriod        OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
    adjustmentRatio                       ScaledAdjustmentRatio   OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
    iE-Extensions                         ProtocolExtensionContainer { { DL-PowerBalancing-Information-ExtIEs } } OPTIONAL,
    ...
}

DL-PowerBalancing-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-ReferencePowerInformationList         ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DL-ReferencePowerInformationItem

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

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

DL-PowerBalancing-ActivationIndicator   ::= ENUMERATED {
    dL-PowerBalancing-Activated
}

DL-PowerBalancing-UpdatedIndicator  ::= ENUMERATED {
    dL-PowerBalancing-Updated
}

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

DL-TimeslotISCP ::= INTEGER (0..91)

DL-TimeslotISCPInfo ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-TimeslotISCPInfoItem

DL-TimeslotISCPInfoItem ::= SEQUENCE {
    timeSlot                TimeSlot,
    dL-TimeslotISCP         DL-TimeslotISCP,
    iE-Extensions           ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} }                OPTIONAL,
    ...
    }
```

```
DL-TimeslotISCPInfoItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-TimeslotISCPInfoLCR ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeslotISCPInfoItemLCR

DL-TimeslotISCPInfoItemLCR ::= SEQUENCE {
    timeSlotLCR                 TimeSlotLCR,
    dL-TimeslotISCP             DL-TimeslotISCP,
    iE-Extensions               ProtocolExtensionContainer { {DL-TimeslotISCPInfoItemLCR-ExtIEs} }                    OPTIONAL,
    ...
    }

DL-TimeslotISCPInfoItemLCR-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-TPC-Pattern01Count ::= INTEGER (0..30,...)

Downlink-Compressed-Mode-Method     ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling,
    ...
}

DPC-Mode ::= ENUMERATED {
    mode0,
    mode1,
    ...
}

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

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

DSCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem

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

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

```
DSCH-FDD-Common-Information ::= SEQUENCE {
    enhancedDSCHPCIndicator         EnhancedDSCHPCIndicator     OPTIONAL,
    enhancedDSCHPC                  EnhancedDSCHPC              OPTIONAL,
    -- The IE shall be present if the Enhanced DSCH PC Indicator IE is set to "Enhanced DSCH PC Active in the UE".
    iE-Extensions                   ProtocolExtensionContainer { { DSCH-FDD-Common-Information-ExtIEs} }     OPTIONAL,
    ...
}

DSCH-FDD-Common-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-FDD-InformationItem

DSCH-FDD-InformationItem ::= SEQUENCE {
    dSCH-ID                         DSCH-ID,
    transportFormatSet              TransportFormatSet,
    allocationRetentionPriority     AllocationRetentionPriority,
    frameHandlingPriority           FrameHandlingPriority,
    toAWS                           ToAWS,
    toAWE                           ToAWE,
    iE-Extensions                   ProtocolExtensionContainer { { DSCH-FDD-InformationItem-ExtIEs} }     OPTIONAL,
    ...
}

DSCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID               CRITICALITY ignore    EXTENSION    BindingID              PRESENCE            optional }|
    { ID id-transportlayeraddress   CRITICALITY ignore    EXTENSION    TransportLayerAddress                     PRESENCE    optional },
    ...
}

DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem

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

DSCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID               CRITICALITY ignore    EXTENSION    BindingID              PRESENCE            optional }|
    { ID id-transportlayeraddress   CRITICALITY ignore    EXTENSION    TransportLayerAddress                     PRESENCE    optional },
    ...
}

DwPCH-Power ::= ENUMERATED {minus10, minus9, minus8, minus7, minus6, minus5, minus4, minus3, minus2, minus1, zero, plus1, plus2, plus3, plus4,
plus5, ...}
```

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```
-- =========================================
--  H
-- =========================================

HARQMemoryPartitioningFDD ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQMemoryPartitioning-ItemFDD

HARQMemoryPartitioning-ItemFDD ::= SEQUENCE {
    process-Memory-Size                 INTEGER (0..172800,...),
    iE-Extensions                       ProtocolExtensionContainer { { HARQMemoryPartitioning-ItemFDD-ExtIEs} }     OPTIONAL,
    ...
}

HARQMemoryPartitioning-ItemFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HARQMemoryPartitioningTDD ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQMemoryPartitioning-ItemTDD

HARQMemoryPartitioning-ItemTDD ::= SEQUENCE {
    process-Memory-Size                 INTEGER (0..168960,...),
    iE-Extensions                       ProtocolExtensionContainer { { HARQMemoryPartitioning-ItemTDD-ExtIEs} }     OPTIONAL,
    ...
}

HARQMemoryPartitioning-ItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-FDD-Information ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info       HSDSCH-MACdFlow-Specific-InfoList,
    ueCapability-Info                   UE-Capability-InformationFDD,
    harqMemoryPartitioningFDD           HARQMemoryPartitioningFDD,
    cqiFeedback-CycleK                  CQI-Feedback-Cycle,
    cqiRepetitionFactor                 CQI-RepetitionFactor            OPTIONAL,
    -- This IE shall be present if the CQI Feedback Cycle k is greater than 0
    ackNackRepetitionFactor             AckNack-RepetitionFactor,
    cqiPowerOffset                      CQI-Power-Offset,
    ackPowerOffset                      Ack-Power-Offset,
    nackPowerOffset                     Nack-Power-Offset,
    hsscch-PowerOffset                  HSSCCH-PowerOffset              OPTIONAL,
    measurement-Power-Offset            Measurement-Power-Offset        OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs} }     OPTIONAL,
    ...
}

HSDSCH-FDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-TDD-Information ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info       HSDSCH-MACdFlow-Specific-InfoList,
    ueCapability-Info                   UE-Capability-InformationTDD,
    harqMemoryPartitioningTDD           HARQMemoryPartitioningTDD,
```

```
    iE-Extensions                      ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs} }              OPTIONAL,
    ...
}


HSDSCH-TDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


HSDSCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem


HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    hsDSCH-MACdFlow-ID                 HSDSCH-MACdFlow-ID,
    allocationRetentionPriority        AllocationRetentionPriority,
    bindingID                          BindingID                 OPTIONAL,
    transportLayerAddress              TransportLayerAddress      OPTIONAL,
    priorityQueueInfo                  PriorityQueue-InfoList,
    iE-Extensions                      ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs} }    OPTIONAL,
    ...
}


HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


HSDSCH-Information-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify      HSDSCH-MACdFlow-Specific-InfoList-to-Modify                    OPTIONAL,
    cqiFeedback-CycleK                           CQI-Feedback-Cycle         OPTIONAL,  -- For FDD only
    cqiRepetitionFactor                          CQI-RepetitionFactor       OPTIONAL,  -- For FDD only
    ackNackRepetitionFactor                      AckNack-RepetitionFactor   OPTIONAL,  -- For FDD only
    cqiPowerOffset                               CQI-Power-Offset           OPTIONAL,  -- For FDD only
    ackPowerOffset                               Ack-Power-Offset           OPTIONAL,  -- For FDD only
    nackPowerOffset                              Nack-Power-Offset          OPTIONAL,  -- For FDD only
    hsscch-PowerOffset                           HSSCCH-PowerOffset         OPTIONAL, -- only for FDD
    measurement-Power-Offset                     Measurement-Power-Offset   OPTIONAL,  -- For FDD only
    iE-Extensions                                ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs} }   OPTIONAL,
    ...
}


HSDSCH-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify


HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-ID                 HSDSCH-MACdFlow-ID,
    allocationRetentionPriority        AllocationRetentionPriority               OPTIONAL,
    transportBearerRequestIndicator    TransportBearerRequestIndicator,
    bindingID                          BindingID                     OPTIONAL,
    transportLayerAddress              TransportLayerAddress             OPTIONAL,
    priorityQueueInfotoModify          PriorityQueue-InfoList-to-Modify        OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs} }   OPTIONAL,
    ...
```

```
}

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp         HSDSCH-MACdFlow-Specific-InformationResp,
    hsSCCH-Specific-Information-ResponseFDD          HSSCCH-Specific-InformationRespListFDD,
    iE-Extensions                                    ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }    OPTIONAL,
    ...
}

HSDSCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-TDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp         HSDSCH-MACdFlow-Specific-InformationResp,
    hsSCCH-Specific-Information-ResponseTDD          HSSCCH-Specific-InformationRespListTDD                     OPTIONAL,
    hsSCCH-Specific-Information-ResponseTDDLCR       HSSCCH-Specific-InformationRespListTDDLCR                  OPTIONAL,
    iE-Extensions                                    ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } }    OPTIONAL,
    ...
}

HSDSCH-TDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InformationResp-Item

HSDSCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    hsDSCHMacdFlow-Id                                HSDSCH-MACdFlow-ID,
    bindingID                                        BindingID                  OPTIONAL,
    transportLayerAddress                            TransportLayerAddress      OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation               HSDSCH-Initial-Capacity-Allocation OPTIONAL,
    iE-Extensions                                    ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    OPTIONAL,
    ...
}

HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB

HSDSCH-Initial-Capacity-Allocation::= SEQUENCE (SIZE (1..16)) OF HSDSCH-Initial-Capacity-AllocationItem

HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator     SchedulingPriorityIndicator,
```

```
    maximum-MACdPDU-Size            MACdPDU-Size,
    hSDSCH-InitialWindowSize        HSDSCH-InitialWindowSize,
    iE-Extensions                   ProtocolExtensionContainer { { HSDSCH-Initial-Capacity-AllocationItem-ExtIEs } } OPTIONAL,
    ...
}

HSDSCH-Initial-Capacity-AllocationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-InitialWindowSize            ::= INTEGER (1..2047)
-- Number of MAC-d PDUs.
-- 2047 = Unlimited number of MAC-d PDUs

HSSCCH-Specific-InformationRespListFDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Codes

HSSCCH-Codes ::= SEQUENCE {
    codeNumber                              INTEGER (1..127),
    iE-Extensions                           ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemFDD-ExtIEs } }    OPTIONAL,
    ...
}

HSSCCH-Specific-InformationRespItemFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD

HSSCCH-Specific-InformationRespItemTDD ::= SEQUENCE {
    timeslot                                TimeSlot,
    midambleShiftAndBurstType               MidambleShiftAndBurstType,
    tDD-ChannelisationCode                  TDD-ChannelisationCode,
    hSSICH-Info                             HSSICH-Info,
    iE-Extensions                           ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD-ExtIEs } }        OPTIONAL,
    ...
}

HSSCCH-Specific-InformationRespItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-Specific-InformationRespListTDDLCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDDLCR

HSSCCH-Specific-InformationRespItemTDDLCR ::= SEQUENCE {
    timeslotLCR                             TimeSlotLCR,
    midambleShiftLCR                        MidambleShiftLCR,
    first-TDD-ChannelisationCodeLCR         TDD-ChannelisationCodeLCR,
    second-TDD-ChannelisationCodeLCR        TDD-ChannelisationCodeLCR,
    hSSICH-InfoLCR                          HSSICH-InfoLCR,
    iE-Extensions                           ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs } }        OPTIONAL,
    ...
}
```

```
HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSICH-Info ::= SEQUENCE {
    hsSICH-ID                                       HS-SICH-ID,
    timeslot                                        TimeSlot,
    midambleShiftAndBurstType                       MidambleShiftAndBurstType,
    tDD-ChannelisationCode                          TDD-ChannelisationCode,
    iE-Extensions                                   ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }      OPTIONAL,
    ...
}

HSSICH-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSICH-InfoLCR ::= SEQUENCE {
    hsSICH-ID                                       HS-SICH-ID,
    timeslotLCR                                     TimeSlotLCR,
    midambleShiftLCR                                MidambleShiftLCR,
    tDD-ChannelisationCodeLCR                       TDD-ChannelisationCodeLCR,
    iE-Extensions                                   ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }    OPTIONAL,
    ...
}

HSSICH-Info-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-Reception-Quality-Value ::= SEQUENCE {
    failed-HS-SICH            HS-SICH-failed,
    missed-HS-SICH            HS-SICH-missed,
    total-HS-SICH             HS-SICH-total,
    iE-Extensions             ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs} } OPTIONAL,
...
}

HS-SICH-Reception-Quality-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-failed ::= INTEGER (0..20)

HS-SICH-missed ::= INTEGER (0..20)

HS-SICH-total ::= INTEGER (0..20)

HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in [23]

HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)
```

```
HSDSCH-RNTI ::= INTEGER (0..65535)


HS-PDSCH-FDD-Code-Information ::= SEQUENCE {
    number-of-HS-PDSCH-codes                         INTEGER (0..maxCodeNrComp-1),
    hS-PDSCH-Start-code-number                       HS-PDSCH-Start-code-number       OPTIONAL,
-- Only included when number of HS-DSCH codes > 0
    ...
}


HS-PDSCH-Start-code-number ::=  INTEGER (0..maxCodeNrComp-1)


HS-SCCH-ID ::= INTEGER (0..31)

HS-SICH-ID ::= INTEGER (0..31)

HS-SCCH-FDD-Code-Information::= CHOICE {
    replace                    HS-SCCH-FDD-Code-List,
    remove                     NULL,
    ...
}


HS-SCCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-FDD-Code-Information-Item


HS-SCCH-FDD-Code-Information-Item ::= INTEGER (0..maxCodeNrComp-1)


HSSCCH-CodeChangeIndicator  ::= ENUMERATED {
    hsSCCHCodeChangeNeeded
}


HSDSCH-FDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator                        HSSCCH-CodeChangeIndicator                OPTIONAL,
    cqiFeedback-CycleK                               CQI-Feedback-Cycle                        OPTIONAL,
    cqiRepetitionFactor                              CQI-RepetitionFactor                      OPTIONAL,
    ackNackRepetitionFactor                          AckNack-RepetitionFactor                  OPTIONAL,
    cqiPowerOffset                                   CQI-Power-Offset                          OPTIONAL,
    ackPowerOffset                                   Ack-Power-Offset                          OPTIONAL,
    nackPowerOffset                                  Nack-Power-Offset                         OPTIONAL,
    iE-Extensions                                    ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }    OPTIONAL,
    ...
}


HSDSCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


HSDSCH-TDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator                        HSSCCH-CodeChangeIndicator                OPTIONAL,
    iE-Extensions                                    ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } }    OPTIONAL,
    ...
}


HSDSCH-TDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
```

}

```
-- =======================================
--  R
-- =======================================

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

RACH-SubChannelNumbers ::= BIT STRING {
                                    subCh11(0),
                                    subCh10(1),
                                    subCh9(2),
                                    subCh8(3),
                                    subCh7(4),
                                    subCh6(5),
                                    subCh5(6),
                                    subCh4(7),
                                    subCh3(8),
                                    subCh2(9),
                                    subCh1(10),
                                    subCh0(11)
                                    } (SIZE (12))

RL-Specific-DCH-Info ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF RL-Specific-DCH-Info-Item

RL-Specific-DCH-Info-Item ::= SEQUENCE {
    dCH-id                  DCH-ID,
    bindingID               BindingID                                           OPTIONAL,
    transportlayeraddress   TransportLayerAddress                               OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs} }  OPTIONAL,
    ...
}

RL-Specific-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Range-Correction-Rate ::= INTEGER (-127..127)
-- scaling factor 0.032 m/s

ReferenceClockAvailability ::= ENUMERATED {
    available,
    notAvailable
}

ReferenceSFNoffset ::= INTEGER (0..255)

RepetitionLength ::= INTEGER (1..63)
```

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


RepetitionNumber0 ::= INTEGER (0..255)


RepetitionNumber1 ::= INTEGER (1..256)


RefTFCNumber ::= INTEGER (0..3)


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


Extension-ReportCharacteristics ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsIE }}


Extension-ReportCharacteristicsIE NBAP-PROTOCOL-IES ::= {
    { ID id-ReportCharacteristicsType-OnModification   CRITICALITY reject  TYPE ReportCharacteristicsType-OnModification   PRESENCE mandatory }
}


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

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

ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    received-total-wide-band-power                      Received-total-wide-band-power-Value-IncrDecrThres,
    transmitted-carrier-power       Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                 UL-TimeslotISCP-Value-IncrDecrThres,
    sir                             SIR-Value-IncrDecrThres,
    sir-error                       SIR-Error-Value-IncrDecrThres,
    transmitted-code-power          Transmitted-Code-Power-Value-IncrDecrThres,
    rscp                            RSCP-Value-IncrDecrThres,
    round-trip-time                 Round-Trip-Time-IncrDecrThres,
    acknowledged-PCPCH-access-preambles     Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles         Detected-PCPCH-access-preambles,
    ...
}

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
    received-total-wide-band-power                      Received-total-wide-band-power-Value,
    transmitted-carrier-power       Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                 UL-TimeslotISCP-Value,
    sir                             SIR-Value,
    sir-error                       SIR-Error-Value,
    transmitted-code-power          Transmitted-Code-Power-Value,
    rscp                            RSCP-Value,
    rx-timing-deviation             Rx-Timing-Deviation-Value,
    round-trip-time                 Round-Trip-Time-Value,
    acknowledged-PCPCH-access-preambles     Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles         Detected-PCPCH-access-preambles,
    ...,
    extension-ReportCharacteristicsType-MeasurementThreshold        Extension-ReportCharacteristicsType-MeasurementThreshold
}

Extension-ReportCharacteristicsType-MeasurementThreshold    ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementThresholdIE }}

Extension-ReportCharacteristicsType-MeasurementThresholdIE NBAP-PROTOCOL-IES ::= {
    { ID id-TUTRANGPSMeasurementThresholdInformation    CRITICALITY reject  TYPE TUTRANGPSMeasurementThresholdInformation    PRESENCE mandatory }|
    { ID id-SFNSFNMeasurementThresholdInformation   CRITICALITY reject  TYPE SFNSFNMeasurementThresholdInformation    PRESENCE mandatory }|
    { ID id-Rx-Timing-Deviation-Value-LCR   CRITICALITY reject  TYPE Rx-Timing-Deviation-Value-LCR               PRESENCE mandatory}|
    { ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject   TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory}
}

ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE {
```

```
    msec                   MeasurementChangeTime-Scaledmsec,
    ...
}

MeasurementChangeTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
    msec                   MeasurementHysteresisTime-Scaledmsec,
    ...
}

MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

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

ReportPeriodicity-Scaledmsec ::= INTEGER (1..6000,...)
-- ReportPeriodicity-msec = ReportPeriodicity * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

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

ReportPeriodicity-Scaledhour ::= INTEGER (1..24,...)
-- Unit hour, Range 1hour .. 24hours(day), Step 1hour

ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled
}

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

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

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..32766)

RNC-ID                  ::= INTEGER (0..4095)

Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in [22]

RSCP-Value ::= INTEGER (0..127)
-- According to mapping in [23]

RSCP-Value-IncrDecrThres ::= INTEGER (0..126)
```

```
Received-total-wide-band-power-Value ::= INTEGER(0..621)
-- According to mapping in [22]/[23]

Received-total-wide-band-power-Value-IncrDecrThres ::= INTEGER (0..620)

RequestedDataValueInformation ::= CHOICE {
    informationAvailable        InformationAvailable,
    informationnotAvailable     InformationnotAvailable
}

InformationAvailable::= SEQUENCE {
    requesteddataValue      RequestedDataValue,
    ie-Extensions           ProtocolExtensionContainer { { InformationAvailableItem-ExtIEs} }                OPTIONAL,
    ...
}

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

InformationnotAvailable ::= NULL

RequestedDataValue ::= SEQUENCE {
    dgps-corrections     DGPSCorrections  OPTIONAL,
    gps-navandrecovery   GPS-NavigationModel-and-TimeRecovery   OPTIONAL,
    gps-ionos-model      GPS-Ionospheric-Model  OPTIONAL,
    gps-utc-model        GPS-UTC-Model          OPTIONAL,
    gps-almanac          GPS-Almanac            OPTIONAL,
    gps-rt-integrity     GPS-RealTime-Integrity  OPTIONAL,
    gpsrxpos             GPS-RX-POS             OPTIONAL,
    ...
}

Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
-- According to mapping in [23]

Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
-- According to mapping in [23]
```

9.3.6   Constant Definitions

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

NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    ProcedureCode,
    ProtocolIE-ID
FROM NBAP-CommonDataTypes;

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

id-audit                                        ProcedureCode ::= 0
id-auditRequired                                ProcedureCode ::= 1
id-blockResource                                ProcedureCode ::= 2
id-cellDeletion                                 ProcedureCode ::= 3
id-cellReconfiguration                          ProcedureCode ::= 4
id-cellSetup                                    ProcedureCode ::= 5
id-cellSynchronisationInitiation                ProcedureCode ::= 45
id-cellSynchronisationReconfiguration           ProcedureCode ::= 46
id-cellSynchronisationReporting                 ProcedureCode ::= 47
id-cellSynchronisationTermination               ProcedureCode ::= 48
id-cellSynchronisationFailure                   ProcedureCode ::= 49
id-commonMeasurementFailure                     ProcedureCode ::= 6
id-commonMeasurementInitiation                  ProcedureCode ::= 7
id-commonMeasurementReport                      ProcedureCode ::= 8
id-commonMeasurementTermination                 ProcedureCode ::= 9
id-commonTransportChannelDelete                 ProcedureCode ::= 10
id-commonTransportChannelReconfigure            ProcedureCode ::= 11
id-commonTransportChannelSetup                  ProcedureCode ::= 12
id-compressedModeCommand                        ProcedureCode ::= 14
id-dedicatedMeasurementFailure                  ProcedureCode ::= 16
id-dedicatedMeasurementInitiation               ProcedureCode ::= 17
id-dedicatedMeasurementReport                   ProcedureCode ::= 18
id-dedicatedMeasurementTermination              ProcedureCode ::= 19
id-downlinkPowerControl                         ProcedureCode ::= 20
```

```
id-downlinkPowerTimeslotControl                                 ProcedureCode ::= 38
id-errorIndicationForCommon                                     ProcedureCode ::= 35
id-errorIndicationForDedicated                                  ProcedureCode ::= 21
id-informationExchangeFailure                                   ProcedureCode ::= 40
id-informationExchangeInitiation                                ProcedureCode ::= 41
id-informationExchangeTermination                               ProcedureCode ::= 42
id-informationReporting                                         ProcedureCode ::= 43
id-BearerRearrangement                                          ProcedureCode ::= 50
id-physicalSharedChannelReconfiguration                         ProcedureCode ::= 37
id-privateMessageForCommon                                      ProcedureCode ::= 36
id-privateMessageForDedicated                                   ProcedureCode ::= 22
id-radioLinkAddition                                            ProcedureCode ::= 23
id-radioLinkDeletion                                            ProcedureCode ::= 24
id-radioLinkFailure                                             ProcedureCode ::= 25
id-radioLinkPreemption                                          ProcedureCode ::= 39
id-radioLinkRestoration                                         ProcedureCode ::= 26
id-radioLinkSetup                                               ProcedureCode ::= 27
id-reset                                                        ProcedureCode ::= 13
id-resourceStatusIndication                                     ProcedureCode ::= 28
id-cellSynchronisationAdjustment                                ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation             ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit                   ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation              ProcedureCode ::= 31
id-systemInformationUpdate                                      ProcedureCode ::= 32
id-unblockResource                                              ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration                       ProcedureCode ::= 34
id-radioLinkActivation                                          ProcedureCode ::= 51
id-radioLinkParameterUpdate                                     ProcedureCode ::= 52


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

maxNrOfCodes              INTEGER ::= 10
maxNrOfDLTSs              INTEGER ::= 15
maxNrOfDLTSLCRs           INTEGER ::= 6
maxNrOfErrors             INTEGER ::= 256
maxNrOfTFs                INTEGER ::= 32
maxNrOfTFCs               INTEGER ::= 1024
maxNrOfRLs                INTEGER ::= 16
maxNrOfRLs-1              INTEGER ::= 15  -- maxNrOfRLs - 1
maxNrOfRLs-2              INTEGER ::= 14  -- maxNrOfRLs - 2
maxNrOfRLSets             INTEGER ::= maxNrOfRLs
maxNrOfDPCHs              INTEGER ::= 240
maxNrOfDPCHLCRs           INTEGER ::= 240
maxNrOfSCCPCHs            INTEGER ::= 8
maxNrOfCPCHs              INTEGER ::= 16
maxNrOfPCPCHs             INTEGER ::= 64
maxNrOfDCHs               INTEGER ::= 128
maxNrOfDSCHs              INTEGER ::= 32
maxNrOfFACHs              INTEGER ::= 8
```

```
maxNrOfCCTrCHs              INTEGER ::= 16
maxNrOfPDSCHs               INTEGER ::= 256
maxNrOfPUSCHs               INTEGER ::= 256
maxNrOfPDSCHSets            INTEGER ::= 256
maxNrOfPRACHLCRs            INTEGER ::= 8
maxNrOfPUSCHSets            INTEGER ::= 256
maxNrOfSCCPCHLCRs           INTEGER ::= 8
maxNrOfULTSs                INTEGER ::= 15
maxNrOfULTSLCRs             INTEGER ::= 6
maxNrOfUSCHs                INTEGER ::= 32
maxAPSigNum                 INTEGER ::= 16
maxNrOfSlotFormatsPRACH     INTEGER ::= 8
maxCellinNodeB              INTEGER ::= 256
maxCCinNodeB                INTEGER ::= 256
maxCPCHCell                 INTEGER ::= maxNrOfCPCHs
maxCTFC                     INTEGER ::= 16777215
maxLocalCellinNodeB         INTEGER ::= maxCellinNodeB
maxNoofLen                  INTEGER ::= 7
maxFPACHCell                INTEGER ::= 8
maxRACHCell                 INTEGER ::= maxPRACHCell
maxPRACHCell                INTEGER ::= 16
maxPCPCHCell                INTEGER ::= 64
maxSCCPCHCell               INTEGER ::= 32
maxSCPICHCell               INTEGER ::= 32
maxTTI-count                INTEGER ::= 4
maxIBSEG                    INTEGER ::= 16
maxIB                       INTEGER ::= 64
maxFACHCell                 INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching             INTEGER ::= 256
maxCodeNrComp-1             INTEGER ::= 256
maxNrOfCellSyncBursts       INTEGER ::= 10
maxNrOfCodeGroups           INTEGER ::= 256
maxNrOfReceptsPerSyncFrame  INTEGER ::= 16
maxNrOfMeasNCell            INTEGER ::= 96
maxNrOfMeasNCell-1          INTEGER ::= 95  -- maxNrOfMeasNCell – 1
maxNrOfTFCIGroups           INTEGER ::= 256
maxNrOfTFCI1Combs           INTEGER ::= 512
maxNrOfTFCI2Combs           INTEGER ::= 1024
maxNrOfTFCI2Combs-1         INTEGER ::= 1023
maxNrOfSF                   INTEGER ::= 8
maxTGPS                     INTEGER ::= 6
maxCommunicationContext     INTEGER ::= 1048575
maxNrOfLevels               INTEGER ::= 256
maxNoSat                    INTEGER ::= 16
maxNoGPSItems               INTEGER ::= 8
maxNrOfHSSCCHs              INTEGER ::= 32
maxNrOfHSSICHs              INTEGER ::= 4
maxNrOfSyncFramesLCR        INTEGER ::= 512
maxNrOfReceptionsperSyncFrameLCR    INTEGER ::= 8
maxNrOfSyncDLCodesLCR       INTEGER ::= 32
maxNrOfHSSCCHCodes          INTEGER ::= 4
maxNrOfMACdFlows            INTEGER ::= 8
maxNrOfMACdFlows-1          INTEGER ::= 7   -- maxNrOfMACdFlows - 1
```

```
maxNrOfMACdPDUIndexes        INTEGER ::= 8
maxNrOfMACdPDUIndexes-1      INTEGER ::= 7    -- maxNoOfMACdPDUIndexes - 1
maxNrOfPriorityQueues        INTEGER ::= 8
maxNrOfPriorityQueues-1      INTEGER ::= 7    -- maxNoOfPriorityQueues - 1
maxNrOfHARQProcesses         INTEGER ::= 8


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

id-AICH-Information                              ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd        ProtocolIE-ID ::= 1
id-BCH-Information                               ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd         ProtocolIE-ID ::= 8
id-BCCH-ModificationTime                         ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator                     ProtocolIE-ID ::= 10
id-Cause                                         ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp                  ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp                  ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd         ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp                 ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd        ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp                 ProtocolIE-ID ::= 19
id-CellParameterID                               ProtocolIE-ID ::= 23
id-CFN                                           ProtocolIE-ID ::= 24
id-C-ID                                          ProtocolIE-ID ::= 25
id-CommonMeasurementAccuracy                     ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt           ProtocolIE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rqst           ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp            ProtocolIE-ID ::= 33
id-CommonMeasurementType                         ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID                       ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD   ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD   ProtocolIE-ID ::= 37
id-CommunicationControlPortID                    ProtocolIE-ID ::= 40
id-ConfigurationGenerationID                     ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID                   ProtocolIE-ID ::= 44
id-CriticalityDiagnostics                        ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD                               ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD                  ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD                               ProtocolIE-ID ::= 50
id-DCH-DeleteList-RL-ReconfPrepFDD               ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD               ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD               ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD               ProtocolIE-ID ::= 55
id-DCH-FDD-Information                           ProtocolIE-ID ::= 56
id-DCH-TDD-Information                           ProtocolIE-ID ::= 57
id-DCH-InformationResponse                       ProtocolIE-ID ::= 59
id-FDD-DCHs-to-Modify                            ProtocolIE-ID ::= 62
id-TDD-DCHs-to-Modify                            ProtocolIE-ID ::= 63
id-DCH-ModifyList-RL-ReconfRqstTDD               ProtocolIE-ID ::= 65
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id-DCH-RearrangeList-Bearer-RearrangeInd              ProtocolIE-ID ::= 135
id-DedicatedMeasurementObjectType-DM-Rprt             ProtocolIE-ID ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst             ProtocolIE-ID ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp              ProtocolIE-ID ::= 69
id-DedicatedMeasurementType                           ProtocolIE-ID ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD          ProtocolIE-ID ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD       ProtocolIE-ID ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD          ProtocolIE-ID ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD         ProtocolIE-ID ::= 77
id-DL-DPCH-InformationList-RL-SetupRqstTDD            ProtocolIE-ID ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD               ProtocolIE-ID ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD               ProtocolIE-ID ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD                ProtocolIE-ID ::= 83
id-DL-DPCH-TimingAdjustment                           ProtocolIE-ID ::= 21
id-DL-ReferencePowerInformationItem-DL-PC-Rqst        ProtocolIE-ID ::= 84
id-DLReferencePower                                   ProtocolIE-ID ::= 85
id-DLReferencePowerList-DL-PC-Rqst                    ProtocolIE-ID ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD                      ProtocolIE-ID ::= 87
id-DSCHs-to-Add-FDD                                   ProtocolIE-ID ::= 89
id-DSCH-DeleteItem-RL-ReconfPrepFDD                   ProtocolIE-ID ::= 91
id-DSCH-DeleteList-RL-ReconfPrepFDD                   ProtocolIE-ID ::= 93
id-DSCHs-to-Add-TDD                                   ProtocolIE-ID ::= 96
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD       ProtocolIE-ID ::= 98
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD       ProtocolIE-ID ::= 100
id-DSCH-InformationResponse                           ProtocolIE-ID ::= 105
id-DSCH-FDD-Information                               ProtocolIE-ID ::= 106
id-DSCH-TDD-Information                               ProtocolIE-ID ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD                   ProtocolIE-ID ::= 108
id-DSCH-ModifyList-RL-ReconfPrepFDD                   ProtocolIE-ID ::= 112
id-DSCH-RearrangeList-Bearer-RearrangeInd             ProtocolIE-ID ::= 136
id-End-Of-Audit-Sequence-Indicator                   ProtocolIE-ID ::= 113
id-FACH-Information                                   ProtocolIE-ID ::= 116
id-FACH-InformationItem-ResourceStatusInd            ProtocolIE-ID ::= 117
id-FACH-ParametersList-CTCH-ReconfRqstTDD             ProtocolIE-ID ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD            ProtocolIE-ID ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD            ProtocolIE-ID ::= 122
id-IndicationType-ResourceStatusInd                   ProtocolIE-ID ::= 123
id-Local-Cell-ID                                      ProtocolIE-ID ::= 124
id-Local-Cell-Group-InformationItem-AuditRsp          ProtocolIE-ID ::= 2
id-Local-Cell-Group-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 3
id-Local-Cell-Group-InformationItem2-ResourceStatusInd ProtocolIE-ID ::= 4
id-Local-Cell-Group-InformationList-AuditRsp          ProtocolIE-ID ::= 5
id-Local-Cell-InformationItem-AuditRsp                ProtocolIE-ID ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd       ProtocolIE-ID ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd      ProtocolIE-ID ::= 127
id-Local-Cell-InformationList-AuditRsp                ProtocolIE-ID ::= 128
id-AdjustmentPeriod                                   ProtocolIE-ID ::= 129
id-MaxAdjustmentStep                                  ProtocolIE-ID ::= 130
id-MaximumTransmissionPower                           ProtocolIE-ID ::= 131
id-MeasurementFilterCoefficient                       ProtocolIE-ID ::= 132
id-MeasurementID                                      ProtocolIE-ID ::= 133
id-MessageStructure                                   ProtocolIE-ID ::= 115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst    ProtocolIE-ID ::= 134
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id-NodeB-CommunicationContextID                         ProtocolIE-ID ::= 143
id-NeighbouringCellMeasurementInformation               ProtocolIE-ID ::= 455
id-P-CCPCH-Information                                   ProtocolIE-ID ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd            ProtocolIE-ID ::= 145
id-P-CPICH-Information                                   ProtocolIE-ID ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd            ProtocolIE-ID ::= 147
id-P-SCH-Information                                     ProtocolIE-ID ::= 148
id-PCCPCH-Information-Cell-ReconfRqstTDD                 ProtocolIE-ID ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD                  ProtocolIE-ID ::= 151
id-PCH-Parameters-CTCH-ReconfRqstTDD                    ProtocolIE-ID ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD                 ProtocolIE-ID ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD                 ProtocolIE-ID ::= 157
id-PCH-Information                                       ProtocolIE-ID ::= 158
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst           ProtocolIE-ID ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst        ProtocolIE-ID ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst                     ProtocolIE-ID ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst                  ProtocolIE-ID ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst                  ProtocolIE-ID ::= 165
id-PICH-Information                                      ProtocolIE-ID ::= 166
id-PICH-Parameters-CTCH-ReconfRqstTDD                   ProtocolIE-ID ::= 168
id-PowerAdjustmentType                                   ProtocolIE-ID ::= 169
id-PRACH-Information                                     ProtocolIE-ID ::= 170
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD           ProtocolIE-ID ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD            ProtocolIE-ID ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD           ProtocolIE-ID ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD            ProtocolIE-ID ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD             ProtocolIE-ID ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD              ProtocolIE-ID ::= 180
id-PrimaryScramblingCode                                ProtocolIE-ID ::= 181
id-SCH-Information-Cell-ReconfRqstTDD                    ProtocolIE-ID ::= 183
id-SCH-Information-Cell-SetupRqstTDD                     ProtocolIE-ID ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst           ProtocolIE-ID ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst        ProtocolIE-ID ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst                     ProtocolIE-ID ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst                  ProtocolIE-ID ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst                  ProtocolIE-ID ::= 189
id-RACH-Information                                      ProtocolIE-ID ::= 190
id-RACH-ParametersItem-CTCH-SetupRqstFDD                ProtocolIE-ID ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD                 ProtocolIE-ID ::= 197
id-ReportCharacteristics                                ProtocolIE-ID ::= 198
id-Reporting-Object-RL-FailureInd                       ProtocolIE-ID ::= 199
id-Reporting-Object-RL-RestoreInd                       ProtocolIE-ID ::= 200
id-RL-InformationItem-DM-Rprt                           ProtocolIE-ID ::= 202
id-RL-InformationItem-DM-Rqst                           ProtocolIE-ID ::= 203
id-RL-InformationItem-DM-Rsp                            ProtocolIE-ID ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD                ProtocolIE-ID ::= 205
id-RL-informationItem-RL-DeletionRqst                   ProtocolIE-ID ::= 206
id-RL-InformationItem-RL-FailureInd                     ProtocolIE-ID ::= 207
id-RL-InformationItem-RL-PreemptRequiredInd             ProtocolIE-ID ::= 286
id-RL-InformationItem-RL-ReconfPrepFDD                  ProtocolIE-ID ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD                  ProtocolIE-ID ::= 209
id-RL-InformationItem-RL-RestoreInd                     ProtocolIE-ID ::= 210
id-RL-InformationItem-RL-SetupRqstFDD                   ProtocolIE-ID ::= 211
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id-RL-InformationList-RL-AdditionRqstFDD                    ProtocolIE-ID ::= 212
id-RL-informationList-RL-DeletionRqst                       ProtocolIE-ID ::= 213
id-RL-InformationList-RL-PreemptRequiredInd                 ProtocolIE-ID ::= 237
id-RL-InformationList-RL-ReconfPrepFDD                      ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfRqstFDD                      ProtocolIE-ID ::= 215
id-RL-InformationList-RL-SetupRqstFDD                       ProtocolIE-ID ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD             ProtocolIE-ID ::= 217
id-RL-InformationResponseItem-RL-ReconfReady                ProtocolIE-ID ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp                  ProtocolIE-ID ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD                ProtocolIE-ID ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD             ProtocolIE-ID ::= 221
id-RL-InformationResponseList-RL-ReconfReady                ProtocolIE-ID ::= 222
id-RL-InformationResponseList-RL-ReconfRsp                  ProtocolIE-ID ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD                ProtocolIE-ID ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD                 ProtocolIE-ID ::= 225
id-RL-InformationResponse-RL-SetupRspTDD                    ProtocolIE-ID ::= 226
id-RL-Information-RL-AdditionRqstTDD                        ProtocolIE-ID ::= 227
id-RL-Information-RL-ReconfRqstTDD                          ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfPrepTDD                          ProtocolIE-ID ::= 229
id-RL-Information-RL-SetupRqstTDD                           ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure           ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt                           ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp                            ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd                     ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd                     ProtocolIE-ID ::= 242
id-S-CCPCH-Information                                      ProtocolIE-ID ::= 247
id-S-CPICH-Information                                      ProtocolIE-ID ::= 249
id-SCH-Information                                          ProtocolIE-ID ::= 251
id-S-SCH-Information                                        ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD                 ProtocolIE-ID ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD        ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD            ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD        ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD         ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD        ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD         ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD              ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD               ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate                ProtocolIE-ID ::= 266
id-SFN                                                      ProtocolIE-ID ::= 268
id-SignallingBearerRequestIndicator                         ProtocolIE-ID ::= 138
id-ShutdownTimer                                           ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator                       ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD  ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD     ProtocolIE-ID ::= 271
id-SyncCase                                                ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH             ProtocolIE-ID ::= 275
id-T-Cell                                                  ProtocolIE-ID ::= 276
id-TargetCommunicationControlPortID                         ProtocolIE-ID ::= 139
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD            ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD             ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied                            ProtocolIE-ID ::= 279
id-TypeOfError                                             ProtocolIE-ID ::= 508
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id-UARFCNforNt                                                 ProtocolIE-ID ::= 280
id-UARFCNforNd                                                 ProtocolIE-ID ::= 281
id-UARFCNforNu                                                 ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD                   ProtocolIE-ID ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD                ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD                   ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD                  ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRqstTDD                     ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD                        ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD                        ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD                         ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD   ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD      ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD       ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD          ProtocolIE-ID ::= 301
id-USCH-Information-Add                                        ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD                ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD                ProtocolIE-ID ::= 306
id-USCH-InformationResponse                                   ProtocolIE-ID ::= 309
id-USCH-Information                                           ProtocolIE-ID ::= 310
id-USCH-RearrangeList-Bearer-RearrangeInd                     ProtocolIE-ID ::= 141
id-Active-Pattern-Sequence-Information                        ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD                   ProtocolIE-ID ::= 316
id-AdjustmentRatio                                           ProtocolIE-ID ::= 317
id-AP-AICH-Information                                        ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD                ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD                   ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailure                             ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD                          ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD                          ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure                               ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD                             ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD                             ProtocolIE-ID ::= 329
id-CDCA-ICH-Information                                       ProtocolIE-ID ::= 330
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD               ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode                        ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD              ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag                         ProtocolIE-ID ::= 335
id-CPCH-Information                                          ProtocolIE-ID ::= 336
id-CPCH-Parameters-CTCH-SetupRsp                            ProtocolIE-ID ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD                  ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD            ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD         ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD         ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD         ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD         ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD         ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD         ProtocolIE-ID ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD           ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD    ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 357
id-DL-TPC-Pattern01Count                                    ProtocolIE-ID ::= 358
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id-DPC-Mode                                                    ProtocolIE-ID ::= 450
id-DPCHConstant                                                ProtocolIE-ID ::= 359
id-DSCH-FDD-Common-Information                                 ProtocolIE-ID ::= 94
id-EnhancedDSCHPC                                              ProtocolIE-ID ::= 110
id-EnhancedDSCHPCIndicator                                     ProtocolIE-ID ::= 111
id-FACH-ParametersList-CTCH-SetupRsp                           ProtocolIE-ID ::= 362
id-Limited-power-increase-information-Cell-SetupRqstFDD        ProtocolIE-ID ::= 369
id-PCH-Parameters-CTCH-SetupRsp                                ProtocolIE-ID ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD                       ProtocolIE-ID ::= 375
id-PCPCH-Information                                           ProtocolIE-ID ::= 376
id-PICH-ParametersItem-CTCH-ReconfRqstFDD                      ProtocolIE-ID ::= 380
id-PRACHConstant                                               ProtocolIE-ID ::= 381
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD                   ProtocolIE-ID ::= 383
id-PUSCHConstant                                               ProtocolIE-ID ::= 384
id-RACH-Parameters-CTCH-SetupRsp                               ProtocolIE-ID ::= 385
id-SSDT-CellIDforEDSCHPC                                       ProtocolIE-ID ::= 443
id-Synchronisation-Configuration-Cell-ReconfRqst              ProtocolIE-ID ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst               ProtocolIE-ID ::= 394
id-Transmission-Gap-Pattern-Sequence-Information              ProtocolIE-ID ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD              ProtocolIE-ID ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          ProtocolIE-ID ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD          ProtocolIE-ID ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          ProtocolIE-ID ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD          ProtocolIE-ID ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD          ProtocolIE-ID ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          ProtocolIE-ID ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD             ProtocolIE-ID ::= 403
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD      ProtocolIE-ID ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD   ProtocolIE-ID ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD   ProtocolIE-ID ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD           ProtocolIE-ID ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD           ProtocolIE-ID ::= 409
id-CommunicationContextInfoItem-Reset                         ProtocolIE-ID ::= 412
id-CommunicationControlPortInfoItem-Reset                     ProtocolIE-ID ::= 414
id-ResetIndicator                                             ProtocolIE-ID ::= 416
id-TFCI2-Bearer-Information-RL-SetupRqstFDD                    ProtocolIE-ID ::= 417
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD           ProtocolIE-ID ::= 418
id-TFCI2-BearerInformationResponse                            ProtocolIE-ID ::= 419
id-TFCI2BearerRequestIndicator                                ProtocolIE-ID ::= 142
id-TimingAdvanceApplied                                       ProtocolIE-ID ::= 287
id-CFNReportingIndicator                                      ProtocolIE-ID ::= 6
id-SFNReportingIndicator                                      ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus                                        ProtocolIE-ID ::= 12
id-TimeslotISCPInfo                                           ProtocolIE-ID ::= 283
id-PICH-ParametersItem-CTCH-SetupRqstTDD                      ProtocolIE-ID ::= 167
id-PRACH-ParametersItem-CTCH-SetupRqstTDD                     ProtocolIE-ID ::= 20
id-CCTrCH-InformationItem-RL-FailureInd                       ProtocolIE-ID ::= 46
id-CCTrCH-InformationItem-RL-RestoreInd                       ProtocolIE-ID ::= 47
id-CauseLevel-SyncAdjustmntFailureTDD                         ProtocolIE-ID ::= 420
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD                    ProtocolIE-ID ::= 421
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD               ProtocolIE-ID ::= 494
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD                ProtocolIE-ID ::= 482
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD           ProtocolIE-ID ::= 422
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id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD          ProtocolIE-ID ::= 423
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD     ProtocolIE-ID ::= 424
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD      ProtocolIE-ID ::= 425
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD            ProtocolIE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD             ProtocolIE-ID ::= 427
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD          ProtocolIE-ID ::= 428
id-CellSyncInfo-CellSyncReprtTDD                               ProtocolIE-ID ::= 429
id-CSBTransmissionID                                           ProtocolIE-ID ::= 430
id-CSBMeasurementID                                            ProtocolIE-ID ::= 431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD                   ProtocolIE-ID ::= 432
id-NCyclesPerSFNperiod                                         ProtocolIE-ID ::= 433
id-NRepetitionsPerCyclePeriod                                  ProtocolIE-ID ::= 434
id-SyncFrameNumber                                             ProtocolIE-ID ::= 437
id-SynchronisationReportType                                   ProtocolIE-ID ::= 438
id-SynchronisationReportCharacteristics                        ProtocolIE-ID ::= 439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD  ProtocolIE-ID ::= 440
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD               ProtocolIE-ID ::= 119
id-ReferenceClockAvailability                                  ProtocolIE-ID ::= 435
id-ReferenceSFNoffset                                          ProtocolIE-ID ::= 436
id-InformationExchangeID                                       ProtocolIE-ID ::= 444
id-InformationExchangeObjectType-InfEx-Rqst                    ProtocolIE-ID ::= 445
id-InformationType                                             ProtocolIE-ID ::= 446
id-InformationReportCharacteristics                            ProtocolIE-ID ::= 447
id-InformationExchangeObjectType-InfEx-Rsp                     ProtocolIE-ID ::= 448
id-InformationExchangeObjectType-InfEx-Rprt                    ProtocolIE-ID ::= 449
id-IPDLParameter-Information-Cell-ReconfRqstFDD                ProtocolIE-ID ::= 451
id-IPDLParameter-Information-Cell-SetupRqstFDD                 ProtocolIE-ID ::= 452
id-IPDLParameter-Information-Cell-ReconfRqstTDD                ProtocolIE-ID ::= 453
id-IPDLParameter-Information-Cell-SetupRqstTDD                 ProtocolIE-ID ::= 454
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD                     ProtocolIE-ID ::= 74
id-DwPCH-LCR-Information                                        ProtocolIE-ID ::= 78
id-DwPCH-LCR-InformationList-AuditRsp                          ProtocolIE-ID ::= 90
id-DwPCH-LCR-Information-Cell-SetupRqstTDD                     ProtocolIE-ID ::= 97
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD                    ProtocolIE-ID ::= 99
id-DwPCH-LCR-Information-ResourceStatusInd                     ProtocolIE-ID ::= 101
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD                         ProtocolIE-ID ::= 154
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD                        ProtocolIE-ID ::= 174
id-FPACH-LCR-Information                                        ProtocolIE-ID ::= 290
id-FPACH-LCR-Information-AuditRsp                              ProtocolIE-ID ::= 292
id-FPACH-LCR-InformationList-AuditRsp                          ProtocolIE-ID ::= 22
id-FPACH-LCR-InformationList-ResourceStatusInd                ProtocolIE-ID ::= 311
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD                      ProtocolIE-ID ::= 312
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD                     ProtocolIE-ID ::= 314
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD                    ProtocolIE-ID ::= 456
id-PCH-Power-LCR-CTCH-SetupRqstTDD                             ProtocolIE-ID ::= 457
id-PCH-Power-LCR-CTCH-ReconfRqstTDD                            ProtocolIE-ID ::= 458
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD                       ProtocolIE-ID ::= 459
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD                  ProtocolIE-ID ::= 461
id-RL-InformationResponse-LCR-RL-SetupRspTDD                   ProtocolIE-ID ::= 463
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD         ProtocolIE-ID ::= 465
id-TimeSlot                                                    ProtocolIE-ID ::= 495
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD            ProtocolIE-ID ::= 466
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD            ProtocolIE-ID ::= 467
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id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD                        ProtocolIE-ID ::= 468
id-TimeSlotLCR-CM-Rqst                                             ProtocolIE-ID ::= 469
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD                         ProtocolIE-ID ::= 470
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD                 ProtocolIE-ID ::= 472
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD                 ProtocolIE-ID ::= 473
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD            ProtocolIE-ID ::= 474
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD                ProtocolIE-ID ::= 475
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD         ProtocolIE-ID ::= 477
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD  ProtocolIE-ID ::= 479
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD                         ProtocolIE-ID ::= 480
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD             ProtocolIE-ID ::= 481
id-UL-DPCH-LCR-InformationModify-AddList                          ProtocolIE-ID ::= 483
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD                    ProtocolIE-ID ::= 485
id-UL-SIRTarget                                                   ProtocolIE-ID ::= 510
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst                       ProtocolIE-ID ::= 486
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst            ProtocolIE-ID ::= 487
id-PDSCH-Information-Cell-SetupRqstFDD                            ProtocolIE-ID ::=  26
id-PDSCH-Information-Cell-ReconfRqstFDD                           ProtocolIE-ID ::=  27
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst                    ProtocolIE-ID ::= 488
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst      ProtocolIE-ID ::= 489
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst                       ProtocolIE-ID ::= 490
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst            ProtocolIE-ID ::= 491
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst                    ProtocolIE-ID ::= 492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst      ProtocolIE-ID ::= 493
id-timeslotInfo-CellSyncInitiationRqstTDD                         ProtocolIE-ID ::= 496
id-SyncReportType-CellSyncReprtTDD                                ProtocolIE-ID ::= 497
id-Power-Local-Cell-Group-InformationItem-AuditRsp               ProtocolIE-ID ::= 498
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd      ProtocolIE-ID ::= 499
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd     ProtocolIE-ID ::= 500
id-Power-Local-Cell-Group-InformationList-AuditRsp               ProtocolIE-ID ::= 501
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd      ProtocolIE-ID ::= 502
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd     ProtocolIE-ID ::= 503
id-Power-Local-Cell-Group-ID                                      ProtocolIE-ID ::= 504
id-PUSCH-Info-DM-Rqst                                             ProtocolIE-ID ::= 505
id-PUSCH-Info-DM-Rsp                                              ProtocolIE-ID ::= 506
id-PUSCH-Info-DM-Rprt                                             ProtocolIE-ID ::= 507
id-InitDL-Power                                                   ProtocolIE-ID ::= 509
id-cellSyncBurstRepetitionPeriod                                  ProtocolIE-ID ::= 511
id-ReportCharacteristicsType-OnModification                       ProtocolIE-ID ::= 512
id-SFNSFNMeasurementValueInformation                              ProtocolIE-ID ::= 513
id-SFNSFNMeasurementThresholdInformation                          ProtocolIE-ID ::= 514
id-TUTRANGPSMeasurementValueInformation                           ProtocolIE-ID ::= 515
id-TUTRANGPSMeasurementThresholdInformation                       ProtocolIE-ID ::= 516
id-Rx-Timing-Deviation-Value-LCR                                  ProtocolIE-ID ::= 520
id-RL-InformationResponse-LCR-RL-AdditionRspTDD                  ProtocolIE-ID ::= 51
id-DL-PowerBalancing-Information                                  ProtocolIE-ID ::= 28
id-DL-PowerBalancing-ActivationIndicator                          ProtocolIE-ID ::= 29
id-DL-PowerBalancing-UpdatedIndicator                             ProtocolIE-ID ::= 30
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD                        ProtocolIE-ID ::= 517
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD                     ProtocolIE-ID ::= 518
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD                       ProtocolIE-ID ::= 519
id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD               ProtocolIE-ID ::= 41
id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD              ProtocolIE-ID ::= 42
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id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst              ProtocolIE-ID ::= 522
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst        ProtocolIE-ID ::= 523
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst          ProtocolIE-ID ::= 524
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst           ProtocolIE-ID ::= 525
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst               ProtocolIE-ID ::= 526
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst          ProtocolIE-ID ::= 527
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst          ProtocolIE-ID ::= 528
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst     ProtocolIE-ID ::= 529
id-bindingID                                             ProtocolIE-ID ::= 102
id-RL-Specific-DCH-Info                                  ProtocolIE-ID ::= 103
id-transportlayeraddress                                 ProtocolIE-ID ::= 104
id-DelayedActivation                                     ProtocolIE-ID ::= 231
id-DelayedActivationList-RL-ActivationCmdFDD             ProtocolIE-ID ::= 232
id-DelayedActivationInformation-RL-ActivationCmdFDD      ProtocolIE-ID ::= 233
id-DelayedActivationList-RL-ActivationCmdTDD             ProtocolIE-ID ::= 234
id-DelayedActivationInformation-RL-ActivationCmdTDD      ProtocolIE-ID ::= 235
id-neighbouringTDDCellMeasurementInformationLCR          ProtocolIE-ID ::= 58
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD   ProtocolIE-ID ::= 543
id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD ProtocolIE-ID ::= 544
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD  ProtocolIE-ID ::= 545
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD ProtocolIE-ID ::= 546
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD        ProtocolIE-ID ::= 547
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD            ProtocolIE-ID ::= 548
id-SyncDLCodeIdThreInfoLCR                               ProtocolIE-ID ::= 549
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD        ProtocolIE-ID ::= 550
id-DwPCH-Power                                           ProtocolIE-ID ::= 551
id-AccumulatedClockupdate-CellSyncReprtTDD               ProtocolIE-ID ::= 552
id-Angle-Of-Arrival-Value-LCR                            ProtocolIE-ID ::= 521
id-HSDSCH-FDD-Information                                ProtocolIE-ID ::= 530
id-HSDSCH-FDD-Information-Response                        ProtocolIE-ID ::= 531
id-HSDSCH-FDD-Information-to-Add                          ProtocolIE-ID ::= 532
id-HSDSCH-FDD-Information-to-Delete                       ProtocolIE-ID ::= 533
id-HSDSCH-Information-to-Modify                           ProtocolIE-ID ::= 534
id-HSDSCH-RNTI                                           ProtocolIE-ID ::= 535
id-HSDSCH-TDD-Information                                ProtocolIE-ID ::= 536
id-HSDSCH-TDD-Information-Response                        ProtocolIE-ID ::= 537
id-HSDSCH-TDD-Information-Response-LCR                    ProtocolIE-ID ::= 538
id-HSDSCH-TDD-Information-to-Add                          ProtocolIE-ID ::= 539
id-HSDSCH-TDD-Information-to-Delete                       ProtocolIE-ID ::= 540
id-HSPDSCH-RL-ID                                         ProtocolIE-ID ::= 541
id-PrimCCPCH-RSCP-DL-PC-RqstTDD                          ProtocolIE-ID ::= 542
id-Qth-Parameter                                        ProtocolIE-ID ::= 64
id-PDSCH-RL-ID                                          ProtocolIE-ID ::= 66
id-HSDSCH-RearrangeList-Bearer-RearrangeInd              ProtocolIE-ID ::= 553
id-UL-Synchronisation-Parameters-LCR                     ProtocolIE-ID ::= 554
id-HSDSCH-FDD-Update-Information                          ProtocolIE-ID ::= 555
id-HSDSCH-TDD-Update-Information                          ProtocolIE-ID ::= 556
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 558
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 559
id-HS-SICH-Reception-Quality                             ProtocolIE-ID ::= 588
id-HS-SICH-Reception-Quality-Measurement-Value           ProtocolIE-ID ::= 589
id-HSSICH-Info-DM-Rprt                                   ProtocolIE-ID ::= 590
id-HSSICH-Info-DM-Rqst                                   ProtocolIE-ID ::= 591
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id-HSSICH-Info-DM-Rsp   ProtocolIE-ID ::= 592

END