RP-040184

Title CRs (category C and F) to TS 25.423, (category C) to 25.433, (category F) to

TS 25. 453

Source TSG RAN WG3

Agenda Item 8.10

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	CR	Rev	Cat	Rel	Title	Work item
R3-040845	TS 25.423	6.1.0	6.2.0	972		F	Rel-6	Correction of HS-SICH reception quality	TEI6
R3-040946	TS 25.423	6.1.0	6.2.0	966	1	С	Rel-6	Measurement Recovery Behavior for Common and Dedicated Measurement Procedures	TEI6
R3-040947	TS 25.433	6.1.0	6.2.0	997	1	С	Rel-6	Measurement Recovery Behavior for Common and Dedicated Measurement Procedures	TEI6
R3-040948	TS 25.453	6.3.0	6.4.0	72	1	F	Rel-6	Correction to usage of INITIAL UE POSITION	TEI6

3GPP TSG-RAN WG3 Meeting #42 Montréal (QC), Canada, 10th – 14th May 2004

			Cl	HANG	E REC	UE	ST				CR-Form-v7
*	25.	423	CR	966	⊭ rev	1	¥	Current ver	sion:	6.1.0	Ж
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Title: ₩		sureme edures		overy Beh	navior for (Comm	on an	d Dedicated	d Mea	surement	
Source: #	RAN	13									
Work item code: ₩	TEI6	6						Date: ৳	g <u>10</u> /	05/2004	
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Clauses affected:	*	9.3.3,	9.3.4, 9			2, 9.1.2	28, 9. ⁻	1.29, 9.1.31	, 9.1.4	13, 9.1.44	, 9.1.46,
Other specs affected:	æ	X	Test spe	ore specifi ecification pecificatio	S	*	CR99	97 25.433 I	Rel-6		
Other comments:	¥										

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:

- 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

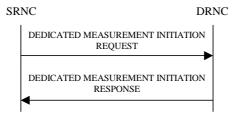


Figure 20: Dedicated Measurement Initiation procedure, Successful Operation

/* partly omitted */

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.

Measurement Recovery Behavior:

If the *Measurement Recovery Behavior* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the DRNS shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.3.12.2.

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

/* partly omitted */

8.3.12 Dedicated Measurement Reporting

/* partly omitted */

8.3.12.2 Successful Operation



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] or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, 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 DRNC was configured to perform the Measurement Recovery Behavior, the DRNC shall indicate Measurement Available to the SRNC when the achieved measurement accuracy again fullfils the given accuracy requirement (see ref. [23] and [24]) and include the *Measurement Recovery Report Indicator* IE in the DEDICATED MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

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

_

/* partly omitted */

8.5.2 Common Measurement Initiation

8.5.2.1 General

This procedure is used by an RNC to request the initiation of measurements of common resources to another RNC. The requesting RNC is referred to as RNC_1 and the RNC to which the request is sent is referred to as RNC_2 .

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

8.5.2.2 Successful Operation

/* partly omitted */

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 COMMON MEASUREMENT INITIATION RESPONSE, COMMON 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.

Measurement Recovery Behavior:

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC₂ shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.5.3.2.

Response message

If the RNC₂ was able to initiate the measurement requested by RNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message.

In the case in which the Report Characteristics IE is set to "On-Demand" or "On Modification":

- The COMMON MEASUREMENT INITIATION RESPONSE message shall include the *Common Measurement Object Type* IE containing the measurement result. It shall also include the *Common Measurement Achieved Accuracy* IE if the *Common Measurement Type* IE is set to 'UTRAN GPS Timing of Cell Frame for UE positioning '
- If the *Common Measurement Type* IE is not set to "SFN-SFN Observed Time Difference" and if the *SFN Reporting Indicator* IE is set to "FN Reporting Required", then the RNC₂ shall include the *SFN* IE in the COMMON MEASUREMENT INITIATION RESPONSE message,. The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26]. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN Reporting Indicator* IE is ignored.
- If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", then the RNC₂ shall report all the available measurements in the Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information IE, and the RNC₂ shall report the neighbouring cells with no measurement result available in the Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information IE. For all available measurement results, the RNC₂ shall include in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE, if available.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", the RNC₂ shall include in the $T_{UTRAN-GPS}$ *Measurement Value Information* IE the $T_{UTRAN-GPS}$ *Quality* IE and the $T_{UTRAN-GPS}$ *Drift Rate Quality* IE, if available.

8.5.2.2.1 Successful Operation for lur-g

/* partly omitted */

8.5.3 Common Measurement Reporting

/* partly omitted */

8.5.3.2 Successful Operation



Figure 30C: Common Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the RNC₂ shall initiate the Common Measurement Reporting procedure. 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 RNC₁ when initiating the measurement with the Common Measurement Initiation procedure.

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref. [23] and [24]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Common Measurement Value Information IE shall indicate Measurement not Available. If the RNC₂ was configured to perform the Measurement Recovery Behavior, the RNC₂ shall indicate Measurement Available to the RNC₁ when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [23] and [24]) and include the Measurement Recovery Report Indicator IE in the COMMON MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

For measurements included in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE, the RNC₂ shall include the *SFN-SFN Quality* IE and the *SFN-SFN Drift Rate Quality* IE if available.

If the Common Measurement Type provided by RNC₁ when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GPS Timing of Cell Frames for UE Positioning", then the RNC₂ shall include in the $T_{UTRAN-GPS}$ Measurement Value Information IE the $T_{UTRAN-GPS}$ Quality IE and the $T_{UTRAN-GPS}$ Drift Rate Quality IE, if available.

8.5.3.2.1 Successful Operation for lur-g

/* partly omitted */

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	М				YES	reject
>RL					_	
>>RL Information		1 <maxn oofRLs></maxn 			EACH	reject
>>>RL-ID	M		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>>>HS-SICH Information		0 <maxn oofHSSI CHs></maxn 		TDD only	GLOBAL	reject
>>>>HS-SICH ID	M		9.2.3.3ad		_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxn oofRLSet s></maxn 			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	0		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	0		9.2.1.9		YES	reject
Partial Reporting Indicator	0		9.2.1.41Fa		YES	ignore
Measurement Recovery Behavior	<u>O</u>		9.2.1.xx		YES	<u>ignore</u>

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	М		9.2.1.59		_	•
Measurement ID	М		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL				See Note 1	-	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	-	
>>>HS-SICH ID	0		9.2.3.3ad	TDD only	YES	reject
>RLS or ALL RLS				FDD only See Note 2	_	,
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	M		9.2.2.35		ı	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	-	
Criticality Diagnostics	0		9.2.1.13		YES	Ignore
Measurement Recovery Support Indicator	<u>O</u>		<u>9.2.1.yy</u>		YES	<u>ignore</u>

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.

Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.

Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.

/* partly omitted */

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 Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL				See Note 1	_	
>>RL Information		1 <maxnoo fRLs></maxnoo 			EACH	ignore
>>>RL-ID	M		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	1	
>>>Dedicated Measurement Value Information	M		9.2.1.19A		1	
>>>HS-SICH ID	0		9.2.3.3ad	TDD only	YES	ignore
>RLS or ALL RLS				FDD only See Note 2	-	
>>RL Set Information		1 <maxnoo fRLSets></maxnoo 			EACH	ignore
>>>RL Set ID	M		9.2.2.35		_	
>>> Dedicated Measurement Value Information	М		9.2.1.19A		-	
Measurement Recovery Reporting Indicator	<u>O</u>		<u>9.2.1.zz</u>		<u>YES</u>	<u>ignore</u>

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.

Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.

Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.

/* partly omitted */

9.1.43 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Measurement ID	M		9.2.1.37		YES	reject
CHOICE Common Measurement Object Type	М				YES	reject
>Cell >>Reference Cell Identifier	M		UTRAN Cell Identifier 9.2.1.71	May be a GERAN Cell Identifier		
>>Time Slot	0		9.2.1.56	3.84Mcps TDD only	_	
>>Time Slot LCR	0		9.2.3.12a	1.28Mcps TDD only	_	
>>Neighbouring Cell Measurement Information		0 <maxnoof MeasNCells ></maxnoof 		UTRAN only	_	
>>>CHOICE Neighbouring Cell Measurement Information					-	
>>>Neighbourin g FDD Cell Measurement Information				FDD only	-	
>>>>Neighbo uring FDD Cell Measurement Information	M		9.2.1.41G		-	
>>>Neighbourin g TDD Cell Measurement Information				3.84Mcps TDD only	-	
>>>>Neighbo uring TDD Cell Measurement Information	M		9.2.1.41H		_	
>>>>Additional Neighbouring Cell Measurement Information					_	
>>>>Neighbo uring TDD Cell Measurement InformationLC R				1.28Mcps TDD only	_	
>>>>>Neig hbouring TDD Cell Measureme nt	М		9.2.1.41Dd		YES	reject
InformationL CR Common Measurement	M		9.2.1.12C		YES	reject
Type Measurement Filter	0		9.2.1.41	LITDAN only	YES	
Coefficient				UTRAN only		reject
Report Characteristics	M	1	9.2.1.48		YES	reject
SFN reporting indicator	М		FN reporting indicator		YES	reject

		9.2.1.28A			
SFN	0	9.2.1.52A	UTRAN only	YES	reject
Common Measurement Accuracy	0	9.2.1.12A	UTRAN only	YES	reject
Measurement Recovery Behavior	<u>O</u>	<u>9.2.1.xx</u>	UTRAN only	<u>YES</u>	<u>ignore</u>

Range bound	Explanation
maxnoofMeasNCell	Maximum number of neighbouring cells on which
	measurements can be performed.

9.1.44 COMMON 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		1	
Measurement ID	M		9.2.1.37		YES	ignore
CHOICE Common Measurement Object Type	0			Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>Cell					ı	
>>Common Measurement value	M		9.2.1.12D		-	
SFN	0		9.2.1.52A	Common Measuremen t Time Reference, UTRAN only.	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
Common Measurement Achieved Accuracy	0		Common Measurem ent Accuracy 9.2.1.12A	UTRAN only	YES	ignore
Measurement Recovery Support Indicator	<u>O</u>		<u>9.2.1.yy</u>	UTRAN only	<u>YES</u>	<u>ignore</u>

9.1.45 COMMON MEASUREMENT INITIATION FAILURE

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
Cause	M		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

9.1.46 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		ı	
Measurement ID	M		9.2.1.37		YES	ignore
CHOICE Common Measurement Object Type	M			Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>Cell					-	
>>Common Measurement Value Information	M		9.2.1.12E		-	
SFN	0		9.2.1.52A	Common Measuremen t Time Reference, UTRAN only.	YES	ignore
Measurement Recovery Reporting Indicator	<u>O</u>		9.2.1.zz	UTRAN only	YES	<u>ignore</u>

^{/*} partly omitted */

9.2.1.xx Measurement Recovery Behavior

This IE controls the Measurement Recovery Behavior.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Behavior			<u>NULL</u>	

9.2.1.yy Measurement Recovery Support Indicator

This IE indicates the Measurement Recovery Support.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Support Indicator			<u>NULL</u>	

9.2.1.zz Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Reporting Indicator			<u>NULL</u>	

/* partly omitted */

9.3.3 PDU Definitions

/* partly omitted */

LengthOfTFCI2,

LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrDLPhysicalchannelsTS, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID, MeasurementRecoveryBehavior, MeasurementRecoveryReportingIndicator, MeasurementRecoverySupportIndicator, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation,

/* partly omitted */

id-InnerLoopDLPCStatus, id-SplitType, id-LengthOfTFCI2, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient, id-MeasurementID, id-MeasurementRecoveryBehavior, id-MeasurementRecoveryReportingIndicator, id-MeasurementRecoverySupportIndicator, id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD, id-PagingArea-PagingRqst, id-PartialReportingIndicator, id-PDSCH-RL-ID, id-Permanent-NAS-UE-Identity, id-Phase-Reference-Update-Indicator,

3GPP TS 25.423 v6.1.0 (2004-03)

id-FACH-FlowControlInformation,
id-PowerAdjustmentType,
id-PrimCCPCH-RSCP-DL-PC-RqstTDD,
id-Primary-CPICH-Usage-For-Channel-Estimation,
id-PropagationDelay,
id-Qth-Parameter,

/* partly omitted */

CR page 15

```
__ *********************
-- DEDICATED MEASUREMENT INITIATION REQUEST
    ***************
DedicatedMeasurementInitiationRequest ::= SEQUENCE {
   protocolIEs
                                                        {{DedicatedMeasurementInitiationRequest-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
                                                                                                                       OPTIONAL,
DedicatedMeasurementInitiationRequest-IES RNSAP-PROTOCOL-IES ::= {
     ID id-Measurement.ID
                                   CRITICALITY reject TYPE MeasurementID
                                                                                 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
   . . .
DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
   rL
                        RL-DM-Rast,
   rLS
                        RL-Set-DM-Rgst,
   allRL
                        All-RL-DM-Rgst,
   allRLS
                        All-RL-Set-DM-Rgst,
RL-DM-Rqst ::= SEQUENCE {
   rL-InformationList-DM-Rqst
                                RL-InformationList-DM-Rqst,
   iE-Extensions
                                ProtocolExtensionContainer { RLItem-DM-Rgst-ExtIEs} } OPTIONAL.
RLItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rqst
                                       ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rqst-IEs} }
RL-Information-DM-Rgst-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationItem-DM-Rqst
                                       CRITICALITY reject TYPE RL-InformationItem-DM-Rqst
                                                                                         PRESENCE mandatory
RL-InformationItem-DM-Rgst ::= SEOUENCE {
   rL-ID
                            RL-ID,
   dPCH-ID
                            DPCH-ID
                                       OPTIONAL,
   iE-Extensions
                                ProtocolExtensionContainer { {RL-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
```

```
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                                                                                       CR page 17
RL-InformationItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSSICH-Info-DM-Rgst
                                  CRITICALITY reject
                                                                  EXTENSION
                                                                            HSSICH-Info-DM-Rgst
                                                                                                                   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-Rgst-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-Rgst ::= SEQUENCE {
    rL-Set-ID
                                   ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Set-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
All-RL-DM-Rgst ::= NULL
All-RL-Set-DM-Rgst ::= NULL
DedicatedMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-PartialReportingIndicator
                                                                                 PartialReportingIndicator
                                                                                                                              PRESENCE optional
                                          CRITICALITY ignore
                                                                     EXTENSION
    } | —
           id-MeasurementRecoveryBehavior
                                                                                     EXTENSION MeasurementRecoveryBehavior
                                                                                                                              PRESENCE optional
                                                      CRITICALITY ignore
    . . .
   -- 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-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 ::= SEOUENCE {
   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,
                                 ProtocolExtensionContainer { RL-SetItem-DM-Rsp-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-SetItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                        ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rsp-IEs} }
RL-InformationList-DM-Rsp
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 ::= SEOUENCE {
   rL-ID
                             RL-ID,
   dPCH-ID
                             DPCH-ID
                                                OPTIONAL,
   dedicatedMeasurementValue
                                    DedicatedMeasurementValue,
```

```
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                                                                                       CR page 19
    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
                              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 ::= SEOUENCE {
                                  RL-Set-ID,
   dedicatedMeasurementValue
                                  DedicatedMeasurementValue,
   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 ::= {
           id-MeasurementRecoverySupportIndicator
                                                     CRITICALITY ignore
                                                                             EXTENSION MeasurementRecoverySupportIndicator PRESENCE optional
   . . .
/* partly omitted */
-- DEDICATED MEASUREMENT REPORT
  DedicatedMeasurementReport ::= SEOUENCE {
                                  ProtocolIE-Container
   protocolIEs
                                                             {{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 {
                           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 ::= {
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rprt-IEs} }
RL-InformationList-DM-Rprt
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 ::= SEOUENCE {
    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 ignore
                                                                    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,
                                 ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
          id-MeasurementRecoveryReportingIndicator
                                                       CRITICALITY ignore
                                                                                         MeasurementRecoveryReportingIndicator
                                                                              EXTENSION
optional },
   . . .
/* partly omitted */
  COMMON MEASUREMENT INITIATION REQUEST
  CommonMeasurementInitiationRequest ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{CommonMeasurementInitiationRequest-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementInitiationRequest-Extensions}}
                                                                                                      OPTIONAL.
CommonMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= {
     ID
           id-MeasurementID
                                                        CRITICALITY reject
                                                                                  TYPE
                                                                                         MeasurementID
                                                                                                                         PRESENCE mandatory
           id-CommonMeasurementObjectType-CM-Rqst
                                                        CRITICALITY reject
                                                                                  TYPE
                                                                                         CommonMeasurementObjectType-CM-Rgst
                                                                                                                               PRESENCE
   mandatory } |
           id-CommonMeasurementType
     ID
                                                        CRITICALITY reject
                                                                                  TYPE
                                                                                         CommonMeasurementType
                                                                                                                          PRESENCE mandatory
           id-MeasurementFilterCoefficient
                                                                                         MeasurementFilterCoefficient
     ID
                                                        CRITICALITY reject
                                                                                  TYPE
                                                                                                                          PRESENCE optional
    -- UTRAN only
           id-ReportCharacteristics
                                                                                  TYPE
                                                                                         ReportCharacteristics
     ID
                                                        CRITICALITY reject
                                                                                                                          PRESENCE mandatory
     ID
           id-SFNReportingIndicator
                                                        CRITICALITY reject
                                                                                  TYPE
                                                                                         FNReportingIndicator
                                                                                                                          PRESENCE mandatory
     ID
           id-SFN
                                                        CRITICALITY reject
                                                                                  TYPE
                                                                                         SFN
                                                                                                                          PRESENCE optional
```

```
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                                                                                           CR page 22
    -- UTRAN only
     ID
           id-CommonMeasurementAccuracy
                                                            CRITICALITY reject
                                                                                                                                    PRESENCE optional
                                                                                         TYPE
                                                                                                 CommonMeasurementAccuracy
    -- UTRAN only
CommonMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-MeasurementRecoveryBehavior
                                                    CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                 MeasurementRecoveryBehavior
                                                                                                                                 PRESENCE optional
   -- UTRAN only
    . . .
CommonMeasurementObjectType-CM-Rgst ::= CHOICE {
    cell
                                    Cell-CM-Rast,
    . . .
Cell-CM-Rqst ::= SEQUENCE {
    uC-ID
                                    UC-ID,
    -- May be a GERAN cell identifier
    timeSlot
                                    TimeSlot
                                                    OPTIONAL,
                                                                --3.84Mcps TDD only
    timeSlotLCR
                                    TimeSlotLCR
                                                    OPTIONAL,
                                                                --1.28Mcps TDD only
    neighbouringCellMeasurementInformation
                                                    NeighbouringCellMeasurementInfo
                                                                                         OPTIONAL,
    -- UTRAN only
                                    ProtocolExtensionContainer { CellItem-CM-Rgst-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
NeighbouringCellMeasurementInfo ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
        CHOICE {
                neighbouringFDDCellMeasurementInformation
                                                                NeighbouringFDDCellMeasurementInformation,
                neighbouringTDDCellMeasurementInformation
                                                                NeighbouringTDDCellMeasurementInformation,
                {\tt extension-neighbouringCellMeasurementInformation}
                                                                     Extension-neighbouringCellMeasurementInformation
Extension-neighbouringCellMeasurementInformation
                                                   ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}
Extension-neighbouringCellMeasurementInformationIE RNSAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformationLCR
                                                            CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR PRESENCE mandatory
},
CellItem-CM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

-- COMMON MEASUREMENT INITIATION RESPONSE

/* partly omitted */

Cellitem-CM-Rprt-ExtiEs RNSAP-PROTOCOL-EXTENSION ::= {

9.3.4 Information Element Definitions

/* partly omitted */
-- M
/* partly omitted */

MeasurementRecoveryBehavior ::= NULL
MeasurementRecoveryReportingIndicator ::= NULL

MeasurementRecoverySupportIndicator ::= NULL

/* partly omitted */

9.3.6 Constant Definitions

/* partly omitted */

id-PrimaryCCPCH-RSCP-Delta	ProtocolIE-ID ::= 539
id-UEMeasurementType	ProtocolIE-ID ::= 540
id-UEMeasurementTimeslotInfoHCR	ProtocolIE-ID ::= 541
id-UEMeasurementTimeslotInfoLCR	ProtocolIE-ID ::= 542
id-UEMeasurementReportCharacteristics	ProtocolIE-ID ::= 543
id-UEMeasurementParameterModAllow	ProtocolIE-ID ::= 544
id-UEMeasurementValueInformation	ProtocolIE-ID ::= 545
id-MeasurementRecoveryBehavior	ProtocolIE-ID ::= 554
id-MeasurementRecoveryReportingIndicator	ProtocolIE-ID ::= 555
id-MeasurementRecoverySupportIndicator	ProtocolIE-ID ::= 556

END

/* partly omitted */

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		C	HANG	E REQ	UES	ST				CR-Form-v7
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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
- 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 $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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.

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	М		INTEGER(063)	According to mapping	-	
			,	in ref. [23] and [24].		
>SIR Error				FDD Only	-	
>>SIR Error	М		INTEGER(0125	According to mapping	-	
)	in [23]		
>Transmitted				L 3	-	
Carrier Power						
>>Transmitted	М		INTEGER(0127	According to mapping	-	
Code Power)	in ref. [23] and [24].		
>RSCP				TDD Only	-	
>>RSCP	М		INTEGER(0127	According to mapping	_	
)	in ref. [24]		
>Rx Timing			/	Applicable to	_	
Deviation				3.84Mcps TDD Only		
>>Rx Timing	М		INTEGER(0819	According to mapping	_	
Deviation	'''		1)	in [24]		
>Round Trip Time			• /	FDD Only	_	1
>>Round Trip	М	1	INTEGER(0327	According to mapping	_	
Time			67)	in [23]	_	
>Additional			01)	111 [20]	_	
Measurement						
Thresholds						
>> Tutran-gps						
Measurement					-	
Threshold						
Information						
>>>Tutran-gps	M		9.2.1.59C		YES	reject
>>> TUTRAN-GPS Measurement	IVI		9.2.1.590		TES	reject
Threshold						
Information						
>>SFN-SFN					_	
Measurement					_	
Threshold						
Information						
>>>SFN-SFN	М		9.2.1.52B		YES	reject
Measurement	141		0.2.1.020		120	10,000
Threshold						
Information						
>>Load					_	
>>>Load	М		INTEGER(0100	0 is the minimum	YES	reject
>>> L0dd	"")	indicated load, and	120	10,000
			/	100 is the maximum		
				indicated load.		
>>Transmitted					_	
Carrier Power						
>>>Transmitted	М		INTEGER(0100	According to mapping	YES	reject
Carrier Power)	in [23] and [24].	5	10,000
>>Received			/	[20] and [21].	_	
Total Wide Band						
Power						
>>>Received	М	1	INTEGER(0621	According to mapping	YES	reject
Total Wide	'*')	in [23] and [24].	'-5	10,000
Band Power			'	[20] and [27].		
>>UL Timeslot				TDD Only	-	1
ISCP				1.00 Only		
>>>UL	M		INTEGER(0127	According to mapping	YES	reject
>>>UL Timeslot ISCP	IVI			in [24]	IES	reject
>>RT Load			1	[47]	_	
>>RT Load	M	1	INTEGER(0100		YES	reject
>>>K LUdU	IVI				153	reject

Information					
>>>NRT Load Information	M	INTEGER(03)		YES	reject
>>Rx Timing Deviation LCR			Applicable to 1.28Mcps TDD Only		
>>>Rx Timing Deviation LCR	M	INTEGER(0511)	According to mapping in [24]	YES	reject
≥>HS-SICH reception quality			Applicable to TDD Only	-	
>>>HS-SICH reception quality	M	INTEGER (020)	According to mapping in [24]	YES	reject
>>UpPTS interference			1.28Mcps TDD Only	_	
>>>UpPTS interference Value	M	INTEGER (0127,)	According to mapping in [24]	YES	reject

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CHANGE REQUEST										CR-Form-v7	
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Clauses affected:	Ж	9.3.3	3, 9.3.4,			9.1.18	, 9.1.	19, 9.1.21, 9.	1.52, 9	9.1.53, 9.	1.55,
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Other comments:	\mathbb{H}										

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:

- 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.

8.2.8 Common Measurement Initiation

8.2.8.1 General

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

8.2.8.2 Successful Operation

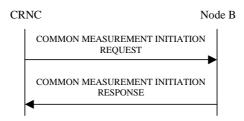


Figure 11: Common Measurement Initiation procedure, Successful Operation

/* partly omitted */

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 COMMON MEASUREMENT INITIATION RESPONSE, COMMON 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.

Common measurement accuracy:

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall use the *UTRAN GPS Timing Measurement Accuracy Class* IE included in the *Common Measurement Accuracy* IE according to the following:

- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

Measurement Recovery Behavior:

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.2.9.2.

Response message:

If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Measurement ID that was used in the measurement request. Only in the case where the *Report Characteristics* IE is set to "On Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall include the *Common Measurement Object Type* IE containing the measurement result and also the *Common Measurement Achieved Accuracy* IE if the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning".

If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference" and the Report Characteristics IE is set to "On Demand" or "On Modification", all the available measurement results shall be reported in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE in the SFN-SFN Measurement Value Information IE and the Node B shall indicate in the Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE all the remaining neighbouring cells with no measurement result available in the COMMON MEASUREMENT INITIATION RESPONSE message. For all available measurement results, the Node B shall include in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE, if available.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", the Node B shall include in the $T_{UTRAN-GPS}$ *Measurement Value Information* IE the $T_{UTRAN-GPS}$ *Quality* IE and the $T_{UTRAN-GPS}$ *Drift Rate Quality* IE, if available.

If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion" and the *Report Characteristics* IE is set to "On Demand", all the available measurement results for each cell portion shall be included in the COMMON MEASUREMENT INITIATION RESPONSE message.

8.2.8.3 Unsuccessful Operation

/* partly omitted */

8.2.9 Common Measurement Reporting

8.2.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Common Measurement Initiation procedure.

8.2.9.2 Successful Operation



Figure 13: Common Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the Node B shall initiate the Common Measurement Reporting procedure. The COMMON MEASUREMENT REPORT message shall use the Node B Control Port.

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

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref.[22] and [23]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Common Measurement Value Information IE shall indicate Measurement not Available. If the Node B was configured to perform the Measurement Recovery Behavior, the Node B shall indicate Measurement Available to the CRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [22] and [23]) and include the Measurement Recovery Report Indicator IE in the COMMON MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

For measurements included in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE, the Node B shall include the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE if available.

If the Common Measurement Type provided by RNC when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall include in the $T_{UTRAN-GPS}$ Measurement Value Information IE the $T_{UTRAN-GPS}$ Quality IE and the $T_{UTRAN-GPS}$ Drift Rate Quality IE, if available.

For Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion measurements, all the available measurement results for each cell portion shall be included in the COMMON MEASUREMENT REPORT message.

8.2.9.3 Abnormal Conditions

/* partly omitted */

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 except when the *Node B Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value "All NBCC".

If the *Node B Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value "All NBCC", the Dedicated Measurement Initiation procedure may be initiated by the CRNC at any time when the Node B Communication Context exists.

8.3.8.2 Successful Operation

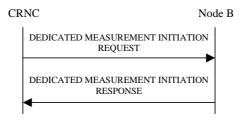


Figure 38: Dedicated Measurement Initiation procedure, Successful Operation

/* partly omitted */

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_I when the first measurement result from the physical layer measurement is received.

Measurement Recovery Behavior:

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.3.9.2.

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. The DEDICATED MEASUREMENT INITIATION RESPONSE message shall be sent even if the initiation is delayed for some Node B Communication Contexts due to an existing Prepared Reconfiguration or that the Reconfiguration CFN has not yet elapsed.

Only in the case where the *Report Characteristics* IE is set to "On Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the *Dedicated Measurement Object Type* IE containing the measurement result. [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

8.3.9 Dedicated Measurement Reporting

8.3.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Dedicated Measurement Initiation procedure. The Node B may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link, as long as the Node B Communication Context exists.

8.3.9.2 Successful Operation



Figure 40: Dedicated Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the Node B shall initiate 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]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Measurement not available shall be reported. If the Node B was configured to perform the Measurement Recovery Behavior, the Node B shall indicate Measurement Available to the CRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [22] and [23]) and include the Measurement Recovery Report Indicator IE in the COMMON MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

8.3.9.3 Abnormal Conditions

-

9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	, , , , , , , , , , , , , , , , , , , ,
Measurement ID	М		9.2.1.42		YES	reject
CHOICE Common	M				YES	reject
Measurement Object Type					0	
>Cell					_	
>>C-ID	M		9.2.1.9		_	
>>Time Slot	0		9.2.3.23	Applicable to	_	
>> Time diot			3.2.3.23	3.84Mcps TDD only		
>>Time Slot LCR	0		9.2.3.24A	Applicable to 1.28Mcps TDD only	YES	reject
>>Neighbouring Cell		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxno<>			GLOBAL	ignore
Measurement		MeasNCell				
Information		s>				
>>>CHOICE Neighbouring Cell Measurement Information					-	
>>>Neighbouring FDD Cell Measurement Information				FDD only	_	
>>>>Neighbouring FDD Cell Measurement	М		9.2.1.47C		_	
Information >>>Neighbouring TDD Cell Measurement Information				Applicable to 3.84Mcps TDD only	_	
>>>>Neighbouring TDD Cell Measurement Information	М		9.2.1.47D		-	
>>>>Additional Neighbouring Cell Measurement Information					_	
>>>>Neighbouring TDD Cell Measurement Information LCR				Applicable to 1.28Mcps TDD only	_	
>>>>Neighbouri ng TDD Cell Measurement Information LCR	M		9.2.1.47E		YES	reject
>RACH				FDD only	_	
>>C-ID	M		9.2.1.9		_	
>>Common Transport Channel ID	М		9.2.1.14		_	
>CPCH				FDD only	_	
>>C-ID	M		9.2.1.9		_	
>>Common Transport Channel ID	M		9.2.1.14		_	
>>Spreading Factor	0		Minimum UL Channelisat ion Code Length		_	

		9.2.2.22		
Common Measurement Type	M	9.2.1.11	YES	reject
Measurement Filter Coefficient	0	9.2.1.41	YES	reject
Report Characteristics	М	9.2.1.51	YES	reject
SFN Reporting Indicator	M	FN Reporting Indicator 9.2.1.29B	YES	reject
SFN	0	9.2.1.53A	YES	reject
Common Measurement Accuracy	0	9.2.1.9B	YES	reject
Measurement Recovery Behavior	<u>O</u>	<u>9.2.1.xx</u>	YES	<u>ignore</u>

Range Bound	Explanation
maxnoMeasNCells	Maximum number of neighbouring cells that can be measured on.

9.1.19 COMMON 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		_	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type	0			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell					_	
>>Common Measurement Value	М		9.2.1.12		_	
>RACH				FDD only	_	
>>Common Measurement Value	М		9.2.1.12		_	
>CPCH				FDD only	_	
>>Common Measurement Value	М		9.2.1.12		_	
SFN	0		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Common Measurement Achieved Accuracy	0		Common Measureme nt Accuracy 9.2.1.9B		YES	ignore
Measurement Recovery Support Indicator	<u>O</u>		9.2.1.yy		YES	<u>ignore</u>

9.1.20 COMMON MEASUREMENT INITIATION FAILURE

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		_	
Measurement ID	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.21 COMMON 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		_	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type	М			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell					_	
>>Common Measurement Value Information	M		9.2.1.12A		1	
>RACH				FDD only	_	
>>Common Measurement Value Information	М		9.2.1.12A		_	
>CPCH				FDD only	_	
>>Common Measurement Value Information	М		9.2.1.12A		_	
SFN	0		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Measurement Recovery Reporting Indicator	<u>O</u>		<u>9.2.1.zz</u>		<u>YES</u>	<u>ignore</u>

^{/*} partly omitted */

9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Discriminator	М		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	YES	reject
			0.0.4.40	"On Demand".	\((50)	
Measurement ID	M		9.2.1.42		YES	reject
CHOICE Dedicated Measurement Object Type	М				YES	reject
>RL					_	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	reject
>>>RL ID	М		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>PUSCH Information		0 <maxno ofPUSCHs ></maxno 		TDD only	GLOBAL	reject
>>>>PUSCH ID	М		9.2.3.12		_	
>>>HS-SICH Information		0 <maxno ofHSSICH s></maxno 		TDD only	GLOBAL	reject
>>>HS-SICH ID	М		9.2.3.5Gb		_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			-	
>>>RL Set ID	М		9.2.2.39		_	
>ALL RL			NULL		_	
>ALL RLS			NULL	FDD only	_	
Dedicated Measurement Type	М		9.2.1.23		YES	reject
Measurement Filter Coefficient	0		9.2.1.41		YES	reject
Report Characteristics	М		9.2.1.51		YES	reject
CFN Reporting Indicator	М		FN Reporting Indicator 9.2.1.29B		YES	reject
CFN	0		9.2.1.7		YES	reject
Number Of Reported Cell Portions	C- BestCellP ortionsMe as		9.2.2.23D	FDD only	YES	reject
Measurement Recovery Behavior	<u>O</u>		<u>9.2.1.xx</u>		YES	ignore

Condition	Explanation
BestCellPortionsMeas	The IE shall be present if the Dedicated Measurement Type IE is set to
	"Best Cell Portions".

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	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		1	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Measurement ID	М		9.2.1.42		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL				See Note 1	_	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>Dedicated Measurement Value	М		9.2.1.24		-	
>>>CFN	0		9.2.1.7	Dedicated Measurement Time Reference	-	
>>>PUSCH Information		0 <maxno ofPUSCHs ></maxno 		TDD only	GLOBAL	reject
>>>>PUSCH ID	М		9.2.3.12		_	
>>>HS-SICH ID	0		9.2.3.5Gb	TDD only	YES	reject
>RLS or ALL RLS				FDD only See Note 2	ı	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>>>Dedicated Measurement Value	М		9.2.1.24		-	
>>>CFN	0		9.2.1.7	Dedicated Measurement Time Reference	_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Measurement Recovery Support Indicator	<u>O</u>		<u>9.2.1.yy</u>		YES	<u>ignore</u>

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

Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.

Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.

9.1.54 DEDICATED MEASUREMENT INITIATION FAILURE

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	М		9.2.1.18		YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.55 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		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				See Note 1	_	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>Dedicated Measurement Value Information	M		9.2.1.24A		_	
>>>PUSCH Information		0 <maxno ofPUSCHs ></maxno 		TDD only	GLOBAL	reject
>>>>PUSCH ID	М		9.2.3.12		_	
>>>HS-SICH ID	0		9.2.3.5Gb	TDD only	YES	reject
>RLS or ALL RLS				FDD only See Note 2	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>>>Dedicated Measurement Value Information	М		9.2.1.24A		_	
Measurement Recovery Reporting Indicator	<u>O</u>		<u>9.2.1.zz</u>		YES	<u>ignore</u>

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				

Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.

Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.

9.2.1.xx Measurement Recovery Behavior

This IE controls the Measurement Recovery Behavior.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Behavior			NULL	

9.2.1.yy Measurement Recovery Support Indicator

This IE indicates the Measurement Recovery Support.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Support Indicator			<u>NULL</u>	

9.2.1.zz Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Reporting Indicator			NULL	

9.3.3 PDU Definitions

/* partly omitted */ LimitedPowerIncrease, Local-Cell-ID,

MaximumDL-PowerCapability,

Maximum-PDSCH-Power,

 ${\tt MaximumTransmissionPower},$

Max-Number-of-PCPCHes,

MaxNrOfUL-DPDCHs,

MaxPRACH-MidambleShifts,

MeasurementFilterCoefficient,

MeasurementID,

MeasurementRecoveryBehavior,

MeasurementRecoveryReportingIndicator,

MeasurementRecoverySupportIndicator,

MidambleAllocationMode,

MidambleShiftAndBurstType,

MidambleShiftLCR,

MinimumDL-PowerCapability,

MinSpreadingFactor,

MinUL-ChannelisationCodeLength,

```
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-MeasurementRecoveryBehavior,
id-MeasurementRecoveryReportingIndicator,
id-MeasurementRecoverySupportIndicator,
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,
id-multipleRL-dl-DPCH-InformationList,
id-multipleRL-dl-DPCH-InformationModifyList,
id-multipleRL-ul-DPCH-InformationList,
id-multipleRL-ul-DPCH-InformationModifyList,
id-NCyclesPerSFNperiod,
id-NeighbouringCellMeasurementInformation,
id-NodeB-CommunicationContextID,
```

```
id-NRepetitionsPerCyclePeriod,
   id-NumberOfReportedCellPortions,
   id-P-CCPCH-Information.
   id-P-CPICH-Information,
/* partly omitted */
  COMMON MEASUREMENT INITIATION REQUEST
         ****************
CommonMeasurementInitiationRequest ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                  {{CommonMeasurementInitiationRequest-IEs}},
                          ProtocolExtensionContainer {{CommonMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                                 OPTIONAL,
    . . .
CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                                 CRITICALITY reject TYPE MeasurementID
                                                                                                                 PRESENCE mandatory }
     ID id-CommonMeasurementObjectType-CM-Rqst
                                                 CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rqst
                                                                                                                 PRESENCE mandatory
     ID id-CommonMeasurementType
                                                 CRITICALITY reject TYPE CommonMeasurementType
                                                                                                                 PRESENCE mandatory }
     ID id-MeasurementFilterCoefficient
                                                  CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                                 PRESENCE optional }
                                                                                                                 PRESENCE mandatory }
     ID id-ReportCharacteristics
                                                 CRITICALITY reject TYPE ReportCharacteristics
     ID id-SFNReportingIndicator
                                                                                                                 PRESENCE mandatory }
                                                 CRITICALITY reject TYPE FNReportingIndicator
    ID id-SFN
                                                 CRITICALITY reject TYPE SFN
                                                                                                                 PRESENCE optional },
CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-CommonMeasurementAccuracy
                                                         CRITICALITY reject
                                                                                    EXTENSION CommonMeasurementAccuracy
                                                                                                                            PRESENCE
optional} | -
    { ID
           id-MeasurementRecoveryBehavior
                                                         CRITICALITY ignore
                                                                                    EXTENSION MeasurementRecoveryBehavior
                                                                                                                            PRESENCE optional
    . . .
CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
   cell
                                  Cell-CM-Rqst,
   rACH
                                  RACH-CM-Rqst,
   cPCH
                                  CPCH-CM-Rqst,
    . . .
Cell-CM-Rast ::= SEQUENCE {
   c-ID
                                  C-ID,
    timeSlot
                                             OPTIONAL, -- Applicable to 3.84Mcps TDD only
                                  ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs} }
   iE-Extensions
                                                                                                               OPTIONAL,
```

```
CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-TimeSlotLCR-CM-Rgst
                                               CRITICALITY reject EXTENSION TimeSlotLCR
                                                                                                             PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only
   RACH-CM-Rqst ::= SEQUENCE {
                                C-ID,
   c-ID
   commonTransportChannelID
                                CommonTransportChannelID,
                                ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs} }
   iE-Extensions
                                                                                                         OPTIONAL,
   . . .
RACHItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-CM-Rqst ::= SEQUENCE {
                                C-ID,
   c-ID
   commonTransportChannelID
                                CommonTransportChannelID,
   spreadingfactor
                                MinUL-ChannelisationCodeLength
   iE-Extensions
                                ProtocolExtensionContainer { CPCHItem-CM-Rqst-ExtIEs} }
                                                                                                         OPTIONAL,
   . . .
CPCHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  COMMON MEASUREMENT INITIATION RESPONSE
     CommonMeasurementInitiationResponse ::= SEQUENCE
   protocolIEs
                         ProtocolIE-Container
                                               {{CommonMeasurementInitiationResponse-IEs}},
                         ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}}
   protocolExtensions
                                                                                                           OPTIONAL,
   . . .
CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
                                                                    TYPE MeasurementID
     ID id-MeasurementID
                                               CRITICALITY ignore
                                                                                                           PRESENCE mandatory
     ID id-CommonMeasurementObjectType-CM-Rsp
                                               CRITICALITY ignore
                                                                    TYPE CommonMeasurementObjectType-CM-Rsp
                                                                                                           PRESENCE optional }
     ID id-SFN
                                               CRITICALITY ignore
                                                                    TYPE SFN
                                                                                                           PRESENCE optional } |
    ID id-CriticalityDiagnostics
                                               CRITICALITY ignore
                                                                    TYPE CriticalityDiagnostics
                                                                                                           PRESENCE optional },
CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-CommonMeasurementAccuracy
                                       CRITICALITY ignore
                                                             EXTENSION CommonMeasurementAccuracy
                                                                                                         PRESENCE optional } | -
          id-MeasurementRecoverySupportIndicator
                                                  CRITICALITY ignore
                                                                        EXTENSION
                                                                                   MeasurementRecoverySupportIndicator PRESENCE optional
```

```
CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
                              Cell-CM-Rsp,
   rACH
                              RACH-CM-Rsp,
   cPCH
                              CPCH-CM-Rsp,
    . . .
Cell-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                 CommonMeasurementValue,
   iE-Extensions
                                 ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs} }
                                                                                                            OPTIONAL,
CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-CM-Rsp ::= SEQUENCE {
                                 CommonMeasurementValue,
   commonMeasurementValue
                                 ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs} }
   iE-Extensions
                                                                                                            OPTIONAL,
RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                 CommonMeasurementValue,
                                 ProtocolExtensionContainer { { CPCHItem-CM-Rsp-ExtIEs} }
                                                                                                            OPTIONAL,
   iE-Extensions
CPCHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   *******************
-- COMMON MEASUREMENT INITIATION FAILURE
__ *********************
CommonMeasurementInitiationFailure ::= SEQUENCE {
                          ProtocolIE-Container
                                                 {{CommonMeasurementInitiationFailure-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementInitiationFailure-Extensions}}
                                                                                                               OPTIONAL,
```

```
CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
           id-MeasurementID
                                          CRITICALITY
                                                         ignore
                                                                        TYPE
                                                                                Measurement.ID
                                                                                                                 PRESENCE mandatory
     ID
           id-Cause
                                          CRITICALITY
                                                         ignore
                                                                         TYPE
                                                                                Cause
                                                                                                                 PRESENCE mandatory
     ID
           id-CriticalityDiagnostics
                                          CRITICALITY
                                                         ignore
                                                                        TYPE
                                                                                CriticalityDiagnostics
                                                                                                                 PRESENCE optional },
    . . .
CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- COMMON MEASUREMENT REPORT
          *************
CommonMeasurementReport ::= SEQUENCE {
    protocolIEs
                          ProtocolIE-Container
                                                  {{CommonMeasurementReport-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}}
                                                                                                               OPTIONAL,
CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                                                        TYPE MeasurementID
                                                                                                                    PRESENCE mandatory
                                                  CRITICALITY ignore
     ID id-CommonMeasurementObjectType-CM-Rprt
                                                  CRITICALITY ignore
                                                                        TYPE CommonMeasurementObjectType-CM-Rprt
                                                                                                                    PRESENCE mandatory
    { ID id-SFN
                                                                                                                    PRESENCE optional },
                                                  CRITICALITY ignore
                                                                        TYPE SFN
CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
           id-MeasurementRecoveryReportingIndicator
                                                         CRITICALITY ignore
    { ID
                                                                                EXTENSION
                                                                                           MeasurementRecoveryReportingIndicator
optional },
    . . .
CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
    cell
                                  Cell-CM-Rprt,
    rACH
                                  RACH-CM-Rprt,
    CPCH
                                  CPCH-CM-Rprt,
    . . .
Cell-CM-Rprt ::= SEQUENCE {
    commonMeasurementValueInformation CommonMeasurementValueInformation.
                                  ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}
    iE-Extensions
                                                                                                               OPTIONAL,
    . . .
CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
RACH-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation CommonMeasurementValueInformation,
   iE-Extensions
                              OPTIONAL.
RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation CommonMeasurementValueInformation,
                              ProtocolExtensionContainer {{    CPCHItem-CM-Rprt-ExtIEs }}
   iE-Extensions
                                                                                                     OPTIONAL,
CPCHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
/* partly omitted */
  -- DEDICATED MEASUREMENT INITIATION REQUEST
  DedicatedMeasurementInitiationRequest ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{DedicatedMeasurementInitiationRequest-IEs}},
                       ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                     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
     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 }
                                                                                                        PRESENCE optional } ,
   { ID id-CFN
                                            CRITICALITY reject TYPE CFN
   . . .
DedicatedMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
          id-NumberOfReportedCellPortions CRITICALITY reject EXTENSION NumberOfReportedCellPortions
                                                                                                   PRESENCE conditional } | -
```

```
-- The IE shall be present if the Dedicated Measurement Type IE is set to "Best Cell Portions", FDD only.
         id-MeasurementRecoveryBehavior
                                               CRITICALITY ignore
                                                                          EXTENSION MeasurementRecoveryBehavior
                                                                                                              PRESENCE optional
   . . .
DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
                           RL-DM-Rast,
   rLS
                           RL-Set-DM-Rqst,
                                               -- for FDD only
   all-RL
                           AllRL-DM-Rqst,
   all-RLS
                          AllRL-Set-DM-Rqst,
                                               -- for FDD only
   . . .
RL-DM-Rgst ::= SEOUENCE {
   rL-InformationList
                                 RL-InformationList-DM-Rgst,
                                 iE-Extensions
                                                                                                    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-Rgst NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
RL-InformationItem-DM-Rqst ::= SEQUENCE {
      rL-ID
                                 RL-ID,
      dPCH-ID
                                                  OPTIONAL, -- for TDD only
                                 iE-Extensions
                                                                                                    OPTIONAL,
RL-InformationItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                                                    PRESENCE optional | |
   { ID id-PUSCH-Info-DM-Rast
                              CRITICALITY reject
                                                         EXTENSION
                                                                   PUSCH-Info-DM-Rast
   -- 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-Rgst ::= SEQUENCE {
                                     RL-Set-InformationList-DM-Rgst,
   rL-Set-InformationList-DM-Rqst
   iE-Extensions
                                     OPTIONAL,
```

```
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                                                                                CR page 24
RL-SetItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rqst
                                          ::= SEQUENCE (SIZE(1..maxNrOfRLSets)) OF RL-Set-InformationItem-DM-Rqst
RL-Set-InformationItem-DM-Rgst ::= SEQUENCE {
   rL-Set-ID
   iE-Extensions
                                ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
   . . .
RL-Set-InformationItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllRL-DM-Rqst ::= NULL
AllRL-Set-DM-Rqst ::= NULL
__ *********************
-- DEDICATED MEASUREMENT INITIATION RESPONSE
        ******************
DedicatedMeasurementInitiationResponse ::= SEQUENCE
   protocolIEs
                        ProtocolIE-Container
                                              {{DedicatedMeasurementInitiationResponse-IEs}},
                        ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
   protocolExtensions
                                                                                                         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 }
     PRESENCE optional } |
    { ID id-CriticalityDiagnostics
                                              CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                         PRESENCE optional },
DedicatedMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
          id-MeasurementRecoverySupportIndicator CRITICALITY ignore
                                                                       EXTENSION MeasurementRecoverySupportIndicator PRESENCE optional
   . . .
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
                            RL-DM-Rsp,
   rL
   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
                                 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 ::= {
   PRESENCE mandatory }
RL-InformationItem-DM-Rsp ::= SEQUENCE {
   rL-ID
                                 RL-ID,
   dPCH-ID
                                 DPCH-ID
                                               OPTIONAL,
                                                        -- for TDD only
   dedicatedMeasurementValue
                                 DedicatedMeasurementValue,
                                               OPTIONAL,
   CFN
                                 iE-Extensions
                                                                                                    OPTIONAL,
{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 ::= SEOUENCE {
   {\tt 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 }
```

```
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                                                                                   CR page 26
RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
   rL-Set-ID
                                 RL-Set-ID.
   dedicatedMeasurementValue
                                 DedicatedMeasurementValue
   CFN
                                                   OPTIONAL,
                                 ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Set-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ****************
  DEDICATED MEASUREMENT INITIATION FAILURE
   DedicatedMeasurementInitiationFailure ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                {{DedicatedMeasurementInitiationFailure-IEs}},
                         ProtocolExtensionContainer {{DedicatedMeasurementInitiationFailure-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                CRITICALITY
                                                              ignore
                                                                             TYPE
                                                                                     CRNC-CommunicationContextID
                                                                                                                   PRESENCE mandatory
          id-MeasurementID
     ID
                                                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 ::= SEOUENCE {
   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
                                                                                                             PRESENCE mandatory
                                                CRITICALITY ignore TYPE MeasurementID
```

```
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```

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```
DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
                                                                 EXTENSION MeasurementRecoveryReportingIndicator
         id-MeasurementRecoveryReportingIndicator
                                              CRITICALITY ignore
optional
  },
   . . .
DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
                               RL-DM-Rprt,
   rLS
                                                 -- for FDD only
                               RL-Set-DM-Rprt,
   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
                               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 ::= {
   PRESENCE mandatory }
RL-InformationItem-DM-Rprt ::= SEQUENCE {
   rL-ID
                            RL-ID,
   dPCH-ID
                            DPCH-ID
                                     OPTIONAL,
                                                 -- for TDD only
   dedicatedMeasurementValueInformation DedicatedMeasurementValueInformation,
   iE-Extensions
                            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
```

```
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```

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```
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 ::= {
    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 ::= {
```

9.3.4 Information Elements Definitions

/* partly omitted */

```
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/* partly omitted */
```

9.3.6 Constant Definitions

/* partly omitted */

```
id-SAT-Info-Almanac-ExtItem
                                                                    ProtocolIE-ID ::= 609
id-HSDPA-Capability
                                                                    ProtocolIE-ID ::= 610
id-HSDSCH-Resources-Information-AuditRsp
                                                                    ProtocolIE-ID ::= 611
id-HSDSCH-Resources-Information-ResourceStatusInd
                                                                    ProtocolIE-ID ::= 612
id-HSDSCH-MACdFlows-to-Add
                                                                    ProtocolIE-ID ::= 613
id-HSDSCH-MACdFlows-to-Delete
                                                                    ProtocolIE-ID ::= 614
id-HSDSCH-Information-to-Modify-Unsynchronised
                                                                    ProtocolIE-ID ::= 615
                                                                    ProtocolIE-ID ::= 616
id-Received-total-wide-band-power-For-CellPortion-Value
                                                                    ProtocolIE-ID ::= 617
id-Transmitted-Carrier-Power-For-CellPortion
                                                                    ProtocolIE-ID ::= 618
id-Transmitted-Carrier-Power-For-CellPortion-Value
                                                                    ProtocolIE-ID ::= 619
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortion
                                                                                            ProtocolIE-ID ::= 620
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue ProtocolIE-ID ::= 621
id-MeasurementRecoveryBehavior
                                                                    ProtocolIE-ID ::= 624
id-MeasurementRecoveryReportingIndicator
                                                                    ProtocolIE-ID ::= 625
id-MeasurementRecoverySupportIndicator
                                                                    ProtocolIE-ID ::= 626
```

END

/* partly omitted */

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CHANGE REQUEST										CR-Form-v7	
*	25.	453	CR	72	жrev	1	ж	Current ve	rsion:	6.4.0	¥
For <u>HELP</u> on us	sing ti	his for	m, see b	oottom of t	his page o	look a	at th	e pop-up te	xt over	the ₩ sy	mbols.
Proposed change a	ffect	s : L	JICC app	os#	ME	Rad	lio A	ccess Netw	ork X	Core N	etwork
Title:	Cor	rection	to usag	e of INITI	AL UE PO	OITIE	V				
Source: 第	RAN	V 3									
Work item code: ₩	TEI	6						Date:	∺ 10⁄	05/2004	
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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 \(\mathcal{H} \) 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.

8.2 Position Calculation

8.2.1 General

The purpose of the Position Calculation procedure is to enable an SRNC to query an SAS for a position estimate of a UE. The procedure uses connectionless signalling.

8.2.2 Successful Operation

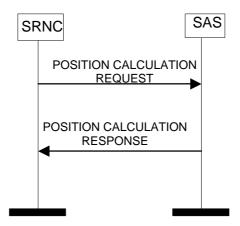


Figure 1: Position Calculation procedure, Successful Operation

The procedure is initiated with a POSITION CALCULATION REQUEST message sent from the SRNC to the SAS. When the SAS receives the POSITION CALCULATION REQUEST message, it shall calculate the UE position based on the provided measurement data.

If the *Initial UE Position Estimate* IE is included in the POSITION CALCULATION REQUEST message, the SAS shall use theis values for the calculation of the UE Position Estimate in case of A-GPS positioning methods are used. The SAS may use this value for the calculation of the UE Position when any other methods are used.

Response Message:

If the SAS was able to calculate the position estimate, it shall respond with a POSITION CALCULATION RESPONSE message.