TSG-RAN Meeting #23 Phoenix, Arizona, USA, 10 - 13 March 2004

Title: Linked Release 6 CRs to TS 25.225(RAN1), TS25.302 (RAN2), TS 25.423 (RAN3), TS 25.443 (RAN3) on Interference measurement in UpPTS for 1.28Mcps TDD

- Source: TSG-RAN WG1
- Agenda item: 8.9
- 1. Linked Release 6 CRs to **TS 25.225**(RAN1), **TS25.302** (RAN2), **TS 25.423** (RAN3), **TS 25.443** (RAN3) on Interference measurement in UpPTS for 1.28Mcps TDD (**RP-040088**)

RP tdoc#	WG tdoc#	Spec	CR	R	Subject	Ph	С	Curr	New	WI	Remarks
RP-040088	R1-040173	25.225	069	1	Interference measurement in UpPTS for 1.28Mcps TDD	Rel-6	В	6.0.0	6.1.0		linked to 25302CR145(R2), 25423CR902(R3),25443CR952( R3),
RP-040088	R2-040714	25.302	145	-	Interference measurement in UpPTS for 1.28Mcps TDD	Rel-6	В	6.0.0	6.1.0	TEI6	linked to 25225CR069r1
RP-040088	R3-040190	25.423	902	-	Interference measurement in UpPTS for 1.28Mcps TDD	Rel-6	В	6.0.0	6.1.0	TEI6	linked to 25225CR069r1
RP-040088	R3-040191	25.433	952	-	Interference measurement in UpPTS for 1.28Mcps TDD	Rel-6	В	6.0.0	6.1.0	TEI6	linked to 25225CR069r1

Note: These CRs are also linked to CR329 to TS 25.123 (RAN4), which was already approved at TSG RAN #22 in Maui. (RP-030607)

			C	CHANGI	ERE	QUE	EST	-			CR-Form-v7
ж	25	5 <mark>.225</mark>	CR	069	жrev	/ 1	ж	Current vers	ion:	6.0.0	ж
For <u>HELP</u> o	n using	this for	m, see	bottom of th	is page	or lool	cat th	ne pop-up text	overt	the	nbols.
Proposed chang	ge affeo	cts: l	JICC a	pps# <mark>-</mark>	ME	- Ra	adio A	Access Networ	k X	Core Ne	etwork -
Title:	策 Int	erferen	ce mea	asurement in	UpPTS	for 1.2	28Mc	ps TDD			
Source:	ж <mark>т</mark>	G RAN	WG1								
Work item code	: ೫ TE	16						<i>Date:</i> ೫	06/0	02/2004	
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Reason for change:	The currently defined timeslot ISCP measurement does not include the UpPTS (since the UpPTS does not contain data bursts with midambles), hence there exists no means for the RNC to relate the broadcast target UpPCH receive power to the interference level in the UpPTS. This addition of a UpPTS interference measurement corrects the situation.
Summary of change:	An additional UpPTS interference measurement, applicable in 1.28Mcps TDD only, has been added.
Consequences if	Here will be no means for the RNC to relate the broadcast target UpPCH
not approved:	receive power level to the amount of interference in the UpPTS.
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Clauses affected:	£ 5.2.17
olauses ancolea.	0.2.17
	YN
Other specs	K         X         Other core specifications         ¥         25.433, 25.302, 25.123, 25.423
affected:	X Test specifications
	X O&M Specifications
04h a m a a m m a m fa a	This OD is showned to add so with the ODs of other provide that is, OE 200, OD445
Other comments:	this CR is changed together with the CRs of other groups, that is: 25.302 CR145
	(RAN2), 25.423 CR902 (RAN3), 25.433 CR952(RAN3), 25.123 CR329 (RAN4
	already approved at RP#22 in RP-030607

#### Definition The level of interference in the UpPTS, defined as the difference between the mean received power in the UpPTS and the sum of the estimated mean power levels of all detected UpPCH transmissions. In the case of antenna diversity, the linear average of the UpPTS interference levels calculated for each antenna branch shall be calculated. The reference point for the UpPTS interference measurement shall be the Rx antenna connector.

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		C	HANG	SE REC	UES				
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Title: Ж	Interfer	ence mea	<mark>isurement i</mark>	in UpPTS fo	or 1.28Mc	ps TDD			
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Summary of chang			al UpPTS ir en added.	nterference	measure	ment, applica	ble in 1.28	Mcps T	TDD
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Clauses affected:	ж <mark>9.</mark>	3.26							
Other specs affected:	ж Х	X Test s	core speci pecificatior Specificatio	าร	¥ 25.	123, 25.225,	25.423, 2	5.433	
Other comments:	ж								

# 9.3.26 UpPTS interference (1.28Mcps TDD)

Measurement	UpPTS interference (1.28Mcps TDD)
Source	L1 (Node B)
<b>Destination</b>	RRC (RNC)
Reporting Trigger	On-demand, periodic, Event-triggered
Description	The level of interference in the UpPTS is the difference between the mean received power in the UpPTS and the sum of the estimated mean power levels of all detected UpPCH transmissions. In the case of antenna diversity, the linear average of the UpPTS interference levels for each antenna branch shall be calculated. The reference point for the UpPTS interference measurement shall be the Rx antenna connector.

# 3GPP TSG-RAN3 Meeting #41 Malaga, Spain, 16<sup>th</sup> – 20<sup>th</sup> February 2004

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Reason for change	e: Ж	The	currently	defined tim	neslot ISC	P me	asure	ement does no	ot include th	e UpPTS
		(sinc exist powe inter	e the Up s no mea er to the ference r	PTS does interference	not contai RNC to re e level in t ent correct	n data late th he Up s the	a burs ne bro PTS situat	sts with midar oadcast targe . This addition tion.	nbles), henc t UpPCH re n of a UpPT	e there ceive S
Summary of chang	<b>ge:</b>	only, Mea	, has bee suremen	n added in	the Comr Measurer	non N	leasu	nent, applicab urement Type ase/Decrease	IE, Commo	n
Consequences if not approved:	Ħ							the broadcase ance in the U		РСН
Clauses affected:	Ħ	8.5.2	2.4, 9.2.1	<mark>.12C, 9.2.1</mark>	<mark>.12D, 9.2</mark> .	1.38,	9.2.1	.39, 9.3.4, 9.3	3.6	
Other specs	ж	Y N X	Other c	ore specific	cations	ж		25 CR 069 02 CR 145		

Other comments: X

X X

### How to create CRs using this form:

affected:

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

Test specifications

**O&M** Specifications

25.433 CR 952

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> 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.

# 8.5.2 Common Measurement Initiation

### /\* partly omitted \*/

### 8.5.2.4 Abnormal Conditions

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the RNC<sub>2</sub> shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the  $T_{UTRAN-GPS}$  Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the RNC<sub>2</sub> shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frame for UE positioning", but the  $T_{UTRAN-GPS}$  Measurement Minimum Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is not set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Common Measurement Accuracy* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the Common Measurement Type received in the *Common Measurement Type* IE is not "load", "RT load" or "NRT load Information", and if the Common Measurement Type received in the *Common Measurement Type* IE is not defined in ref. [11] or [15] to be measured on the Common Measurement Object Type indicated in the COMMON MEASUREMENT INITIATION REQUEST message the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

The allowed combinations of the Common Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

### Table 5: Allowed Common Measurement Type and Report Characteristics Type Combinations

Common	Report characteristics type									
measurement type	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification	
Received total wide band power	Х	х	Х	Х	Х	Х	Х	Х		
Transmitted Carrier Power	Х	х	х	х	Х	х	Х	Х		
UL Timeslot ISCP	Х	Х	Х	Х	Х	Х	Х	Х		
Load	Х	Х	Х	Х	Х	Х	Х	Х		
UTRAN GPS Timing of Cell Frames for UE Positioning	X	X							X	
SFN-SFN Observed Time Difference	Х	X							X	
RT load	Х	Х	Х	Х	Х	Х	Х	Х		
NRT load Information	Х	Х	Х	Х	Х	Х	Х	Х		
UpPTS interference	<u>X</u>	<u>×</u>	X	X	X	X	X	<u>X</u>		

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD - *Time Slot* IE] [1.28Mcps TDD – *Time Slot LCR* IE] is not provided in the COMMON MEASUREMENT INITIATION REQUEST message the RNS<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.]

If the *SFN* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic", "On Demand" or "On Modification", the RNS<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

### 8.5.2.4.1 Abnormal Conditions for lur-g

/\* partly omitted \*/

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### 9.2.1.12C Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Common Measurement Type			ENUMERATED	UL timeslot ISCP shall only
			(UTRAN GPS	be used by TDD.
			Timing of Cell	For measurements, which are
			Frames for UE	requested on the lur-g
			Positioning,	interface, only load, RT Load
			SFN-SFN	and NRT Load information
			Observed Time	are used.
			Difference,	"UpPTS interference" is used
			load,	by 1.28Mcps TDD only
			transmitted	
			carrier power,	
			received total	
			wide band	
			power, UL	
			timeslot ISCP,	
			, RT Load,	
			NRT Load	
			Information,	
			UpPTS	
			interference)	

# 9.2.1.12D Common Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Common	М			-	_	
Measurement Value						
> T <sub>UTRAN-GPS</sub>				UTRAN only	-	
Measurement Value						
Information						
>>T <sub>UTRAN-GPS</sub>	Μ		9.2.1.59D		-	
Measurement						
Value Information						
> SFN-SFN				UTRAN only	_	
Measurement Value						
Information						
>>SFN-SFN	М		9.2.1.52C		_	
Measurement						
Value Information						
>Load Value					_	
>>Load Value	М		9.2.1.33A		_	
>Transmitted Carrier			0.2.1.100.1	UTRAN only	_	
Power Value						
>>Transmitted	М		Transmitted		_	
Carrier Power			Carrier Power			
Value			9.2.1.59A			
Received Total			0.2.1.00/1	UTRAN only	_	
Wide Band Power						
Value						
>>Received Total	М		Received		_	
Wide Band Power			Total Wide			
Value			Band Power			
Value			9.2.2.35A			
>UL Timeslot ISCP			0.2.2.00/1	TDD Only	_	
Value				TDD Only		
>>UL Timeslot	М		UL Timeslot		_	
ISCP Value			ISCP			
			9.2.3.13A			
>Additional Common			0.2.0.10/1		_	
Measurement Values						
>>RT Load Value				<u> </u>	_	
>>>RT Load	М		9.2.1.50B	<u> </u>	YES	ignore
Value			5.2.1.000		125	Ignore
>>NRT Load						
Information Value					_	
>>>NRT Load	M		9.2.1.41		YES	Ignoro
Information Value			9.2.1.411		160	Ignore
>UpPTS				1.28Mcps TDD Only		
<u>interference</u>						
>>UpPTS	M			According to marging		
	<u>M</u>		INTEGER	According to mapping		
interference Value			<u>(0127,)</u>	in [24]		

### /\* partly omitted \*/

### 9.2.1.38 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

CHOICE Measurement Increased/Decrease Tresshold         M         Integration (Integration of the same as possible of the same as for the Uplink Load power aspected measurement Thresshold         M         INTEGER(0.62) (Integration of the same as for the Uplink Load power aspected power aspected	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		M				-	
>>SIR         M         INTEGER(062)         0: 0 dB         -           :>SIR Error         M         INTEGER(062)         0: 0 dB         -           >>SIR Error         M         INTEGER(0124         0: 0 dB         -           >>SIR Error         M         INTEGER(0124         0: 0 dB         -           >>Transmitted Code         -         -         -         -           >>Transmitted         M         INTEGER(0126         0: 0 dB         -         -           >>RSCP         M         INTEGER(0126         0: 0 dB         -         -         -           >>RSCP         M         INTEGER(026         0: 0 dB         -         -         -           >>RSCP         M         INTEGER(027         0: 0 dB         -         -         -           >>RSCP         M         INTEGER(027         0: 0 dB         -         -         -           >>Rscond         Initige Colopis         -							
>SIR Error         -		N.4			0.0 dD	-	
SIR Error         FDD Only.         -           >>SIR Error         M         INTEGER(0124         10.0 dB         -           >Transmitted Code         -         -         -         -           >Transmitted Code         -         -         -         -           >Transmitted Code         -         -         -         -           Power         M         INTEGER(0124         0: 0 dB         -           >Transmitted Code         -         -         -         -           Power         M         INTEGER(0126         0: 0 dB         -           -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -	>>314			INTEGER(002)	1: 0.5 dB 2: 1 dB	-	
>>SIR Error         M         INTEGER(0124)         0: 0 dB 1: 0.5 dB 2: 1 dB         -           >>Transmitted Code Power         -         -         -         -           >>Transmitted Code Power         M         INTEGER(0122 )         0: 0 dB 1: 0.5 dB 2: 1 dB         -         -           >>RSCP         M         INTEGER(0122 )         0: 0 dB 1: 0.5 dB         -         -           >>RSCP         M         INTEGER(0126 )         0: 0 dB 1: 0.5 dB         -         -           >>RSCP         M         INTEGER(0126 )         0: 0 dB 1: 0.5 dB         -         -           >>RSCP         M         INTEGER(0126 )         0: 0 dB 1: 0.5 dB         -         -           >>Round Trip Time         M         INTEGER(0327 66)         0: 0 chips 1: 0.682 chips 2: 0.1250 chips 2: 0.1250 chips         -         -           >>Additional Measurement Thresholds         -         -         -         -           >>Load         M         INTEGER(0100 )         Units are the same as for the Uplink Load Value IE and Dowlink Load Value IE.         -         -           >>Load         M         INTEGER(0100 )         According to mapping in [23] and [24].         -         -           >>Received Total Wide Band Power <td></td> <td></td> <td></td> <td></td> <td>62: 31dB</td> <td></td> <td></td>					62: 31dB		
> Transmitted Code Power         )         1:0.5 dB 2:1 dB            > Transmitted Code Power         M         INTEGER(0112 )         0:0 dB 1:0.5 dB            >>RSCP         M         INTEGER(0122 )         0:0 dB 1:0.5 dB            >>RSCP         M         INTEGER(0126 )         TDD Only            >>RSCP         M         INTEGER(0126 )         TOD Only            >>RSCP         M         INTEGER(0126 )         ToD Only            >>RSCP         M         INTEGER(0126 )         ToD Only            >>Round Trip Time         PDD Only              >>Round Trip Time         FDD Only              >>Round Trip Time         INTEGER(0277 0:0 othps 2: 0.1250 othps 2: 0.1250 othps 2: 0.1250 othps 3: 2.0ad             >>Additional Measurement Thresholds               >>Load         M         INTEGER(0100 Vinits are the same as 0 or the Uplink Load Value IE and Dowlink Load Value IE.            >>Load         M         INTEGER(0100 Carrier Power						-	-
> Transmitted Code Power         M         INTEGER(0122 )         0: 0 dB 1: 0.5 dB 2: 1 dB )         -           > RSCP         INTEGER(0126 0: 0 dB 1: 0.5 dB 2: 1 dB )         0: 0 dB 1: 0.5 dB 2: 1 dB -           > RSCP         INTEGER(0126 0: 0 dB 1: 0.5 dB 2: 1 dB 10.5 dB 1: 0.5 dB 2: 1 dB -           > Round Trip Time         INTEGER(0126 0: 0 chips         0: 0 dB 1: 0.5 dB 2: 1 dB -           > Round Trip Time         INTEGER(0327 66)         0: 0 chips         -           >>Round Trip Time         M         INTEGER(0327 66)         0: 0 chips         -           >>Round Trip Time         M         INTEGER(0327 66)         0: 0 chips         -           >>Load         M         INTEGER(0327 66)         0: 0 chips         -           >>Load         INTEGER(0100 Nuits are the same as for the Uplink Load Value (E and Dowlink Load Value (E.         -           >>Load         INTEGER(0100 Nale E and Dowlink Load Value (E.         -         -           >>Load         INTEGER(0100 Nale E and Dowlink Load Value (E.         -         -           >>Namitted Carrier Power         INTEGER(0100 Nale E and Dowlink Load Value (E.         -         -           >>Nale Band Power         INTEGER(0100 Nale E and Dowlink Load Band Power	>>SIR Error			INTEGER(0124 )	1: 0.5 dB 2: 1 dB	-	
Power					124: 62 dB		
Code Power        )         1: 0.5 dB 2: 1 dB        )           >RSCP         INTEGER(0126         0: 0 dB         -           >>RSCP         INTEGER(0126         0: 0 dB         -           >>RSCP         INTEGER(0126         0: 0 dB         -           >>RSCP         INTEGER(0126         0: 0 dB         -           >>Round Trip Time         INTEGER(0327         FDD Only         -           >>Round Trip Time         INTEGER(0327         0: 0 chips         -           >>Rocadditional         INTEGER(0327         0: 0 chips         -           >>Lodditional         INTEGER(0327         0: 0 chips         -           >>Additional         INTEGER(0100         Units are the same as         -           >>Load         INTEGER(0100         According to mapping         YES         reject           >>Load         INTEGER(0100         According to mapping         YES         reject           >>Normarited         -						-	
>RSCP         112: 56 dB         TDD Only         -           >>RSCP         M         INTEGER(0126         0: 0 dB         -           >>Round Trip Time         1: 0.5 dB         -         -           >Round Trip Time         126: 63 dB         -         -           >>Round Trip Time         FDD Only         -         -           >>Round Trip Time         66)         0: 0 chips         -           1: 0.0625 chips         -         -         -           2: 0.1250 chips         -         -         -           32766: 2047.875         -         -         -           -         -         -         -         -           >>Load         -         -         -         -           ->>Load         -         -         -         -           >>Netwire         -         -         -         -           ->>Load         -         -         -         -           >>Transmitted		M			1: 0.5 dB 2: 1 dB	-	
>>RSCP         M         INTEGER(0126         0: 0 dB         -           >Round Trip Time               >>Round Trip Time         FDD Only              >>Round Trip Time         INTEGER(0327         0: 0 chips             >>Round Trip Time         INTEGER(0327         0: 0 chips             >>Additional         INTEGER(0327         0: 0 chips                     >Additional         INTEGER(0327         0: 0 chips							
>>RSCP         M         INTEGER(0126         0: 0 dB         -           >         10.5 dB         2: 1 dB         -         -           -         126: 63 dB         -         -         -           >>Round Trip Time         INTEGER(0327         0: 0 chips         -         -           >>Round Trip Time         INTEGER(0327         0: 0 chips         -         -           >>Additional         INTEGER(0327         0: 0 chips         -         -           >>Load         INTEGER(0100         Units are the same as for the Uplink Load         -         -           >>>Load         M         INTEGER(0100         According to mapping in [23] and [24].         -           >>>Transmitted         M         INTEGER(0620         0: 0dB         -           Carrier Power         -         -         -         -      <					TDD Only	-	
Secund Trip Time         Integer (0.327         FDD Only         -           >>Round Trip Time         M         INTEGER (0.327 66)         0: 0 chips 1: 0.0625 chips 2: 0.1250 chips 2: 0.1250 chips         -           >>Additional Measurement Thresholds         -         -         -           >>Load         -         -         -           >>>Load         M         INTEGER (0.100 )         Units are the same as for the Uplink Load Value IE and Dowlink Load Value IE.         -           >>>Transmitted Carrier Power         -         -         -           >>>Received Total Wide Band Power         -         -         -           >>>Received Total Wide Band Power         -         -         -           >>>UL Timeslot ISCP         -         INTEGER (0.126 )         0: 0dB 1: 0.1dB 2: 0.2dB -         YES         reject 1: 0.5dB 2: 10.5dB 2: 10.5dB           >>UL Timeslot ISCP         -	>>RSCP	М				-	
126: 63 dB            >Round Trip Time         M         INTEGER(0327 66)         0: 0 chips 1: 0.0625 chips 2: 0.1250 chips 2: 0.1250 chips         -           >Additional Measurement Thresholds         -         -         -           >>Load         -         -         -           >>Load         -         -         -           >>Load         -         -         -           >>Load         -         -         -           >>>Load         -         -         -           >>>Load         INTEGER(0100 )         Units are the same as for the Uplink Load Value IE and Dowink Load Value IE.         -           >>>Transmitted Carrier Power         -         -         -           >>>Transmitted Carrier Power         INTEGER(0100 )         According to mapping in [23] and [24].         reject           >>>Received Total Wide Band Power         INTEGER(0620 )         0: 0dB         YES         reject				,	2: 1 dB		
>>Round Trip Time         M         INTEGER(0327 66)         0: 0 chips 1: 0.0625 chips 2: 0.1250 chips         -           >Additional Measurement Thresholds         -         -         -         -           >>Load         M         INTEGER(0100 )         Units are the same as for the Uplink Load Value IE.         -           >>Transmitted Carrier Power         M         INTEGER(0100 )         According to mapping in [23] and [24].         -           >>Received Total Wide Band Power         M         INTEGER(0620 )         0: 0dB 2: 0.2dB ::         -         -           >>UL Timeslot ISCP         M         INTEGER(0126 )         0: 0dB 2: 0.5dB 2: 0.5dB 2: 0.5dB 2: 1dB ::         YES         reject           >>UL         Imeslot ISCP         INTEGER(0126 )<							
Time         66)         1: 0.0625 chips 2: 0.1250 chips           >Additional Measurement Thresholds						-	
>Additional Measurement Thresholds       -       -         >>Load       -       -         >>Load       Units are the same as for the Uplink Load Value IE and Dowlink Load Value IE       -         >>Transmitted Carrier Power       -       -         >>Transmitted Carrier Power       -       -         >>Transmitted Carrier Power       -       -         >>Transmitted Carrier Power       -       -         >>Received Total Wide Band Power       N       INTEGER(0100 )       According to mapping in [23] and [24].       -         >>Received Total Wide Band Power       M       INTEGER(0.620 )       0: 0dB 1: 0.1dB 2: 0.2dB  620: 62dB       YES       reject         >>UL Timeslot ISCP       INTEGER(0126 )       0: 0dB 1: 0.5dB 2: 1dB  1: 0: 5dB 2: 1dB  1: 0: 5dB       YES       reject         >>RT Load       INTEGER(0126       0: 0dB 1: 0: 5dB 2: 1dB       YES       reject		М			1: 0.0625 chips 2: 0.1250 chips 	-	
Measurement Thresholds       Image: Constraint of the second					chips		
>>>Load       M       INTEGER(0100       Units are the same as for the Uplink Load Value IE and Dowlink Load Value IE and Dowlink Load Value IE.         >>Transmitted       M       INTEGER(0100       According to mapping in [23] and [24].         >>>Received       -       -         Total Wide Band       INTEGER(0620       0: 0dB       YES         >>Received       M       INTEGER(0620       0: 0dB       YES         Total Wide       M       INTEGER(0620       0: 0dB       YES         >>Received       M       INTEGER(0620       0: 0dB       YES         >>Neceived       M       INTEGER(0620       0: 0dB       YES         >>Null Timeslot       INTEGER(0620       0: 0dB       YES       reject         >>UL Timeslot ISCP       INTEGER(0126       0: 0dB       YES       reject         >>NLL       INTEGER(0126       0: 0dB       YES       reject         >>NUL       INTEGER(0126       0: 0dB       YES       reject         >>NUL       INTEGER(0126       0: 0dB       YES       reject         >>UL Timeslot ISCP       INTEGER(0126       0: 0dB       YES       reject         >>RT Load       INTEGER(0126       0: 0dB       -       <	Measurement Thresholds					-	
>> Transmitted Carrier Power)for the Uplink Load Value IE and Dowlink Load Value IE.>> Transmitted Carrier PowerMINTEGER(0100 )According to mapping in [23] and [24].YES>> Received Total Wide Band PowerMINTEGER(0620 )0: 0dB 1: 0.1dB 2: 0.2dBYESreject>> Received Total Wide Band PowerMINTEGER(0620 )0: 0dB 1: 0.1dB 2: 0.2dBYESreject>>UL Timeslot ISCPINTEGER(0126 )0: 0dB 1: 0.5dB 2: 1dBYESreject>>UL Timeslot ISCPINTEGER(0126 )0: 0dB 1: 0.5dB 2: 1dBYESreject>>RT LoadINTEGER(0126 )0: 0dB 1: 0.5dB 2: 1dBYESreject							
Carrier PowerMINTEGER(0100 )According to mapping in [23] and [24].YESreject>>Received Total Wide Band Power>>Received Total Wide Band PowerMINTEGER(0620 )0: 0dB 1: 0.1dB 2: 0.2dBYESreject>>Band PowerMINTEGER(0620 )0: 0dB 1: 0.1dB 2: 0.2dBYESreject>>UL Timeslot ISCPINTEGER(0126 00: 0dB 1: 0.5dB 2: 1 dB 2: 1 dB 1: 0.5dB 2: 1 dB 1: 0.5dBYESreject	>>>Load			INTEGER(0100 )	for the Uplink <i>Load</i> <i>Value</i> IE and <i>Dowlink</i>	-	
>>>Transmitted Carrier Power       M       INTEGER(0100       According to mapping in [23] and [24].       YES       reject         >>Received Total Wide Band Power       INTEGER(0620       0: 0dB       YES       reject         >>>Received Total Wide Band Power       M       INTEGER(0620       0: 0dB       YES       reject         >>UL Timeslot ISCP       INTEGER(0620       0: 0dB       YES       reject         >>UL Timeslot ISCP       INTEGER(0126       0: 0dB       YES       reject         >>UL Timeslot ISCP       INTEGER(0126       0: 0dB       YES       reject         >>RT Load       INTEGER(0126       0: 0dB       YES       reject						-	
>>Received Total Wide Band Power       M       INTEGER(0620       0: 0dB       YES       reject         >>>Received Total Wide Band Power       M       INTEGER(0620       0: 0dB       YES       reject         >>UL Timeslot ISCP       Image: Comparison of the second of the secon	>>>Transmitted	М		INTEGER(0100		YES	reject
>>>Received Total Wide Band Power       M       INTEGER(0620 )       0: 0dB 1: 0.1dB 2: 0.2dB  620: 62dB       YES       reject         >>UL Timeslot ISCP       INTEGER(0126 0: 0dB       TDD Only       -       -         >>>UL Timeslot ISCP       INTEGER(0126 0: 0dB       0: 0dB       YES       reject         >>RT Load       INTEGER(0126       1: 0.5dB 2: 1dB       -       -	>>Received Total Wide Band					-	
620: 62dB            >>UL Timeslot ISCP         TDD Only         -         -           >>>UL Timeslot ISCP         INTEGER(0126         0: 0dB         YES         reject           1: 0.5dB         2: 1dB              >>RT Load         I         Integer         -         -	>>>Received Total Wide	М		INTEGER(0620 )	1: 0.1dB	YES	reject
>>UL Timeslot ISCP       INTEGER(0126       TDD Only       -         >>>UL Timeslot ISCP       INTEGER(0126       0: 0dB       YES       reject         1: 0.5dB       2: 1dB        126: 63dB       -         >>RT Load       I       INTEGER(0126       -       -							
>>>UL Timeslot ISCP         INTEGER(0126         0: 0dB         YES         reject           )         1: 0.5dB         2: 1dB          126: 63dB         -           >>RT Load						-	
>>RT Load -	>>>UL			INTEGER(0126 )	1: 0.5dB	YES	reject
					 126: 63dB		
	>>RT Load >>>RT Load	Μ		INTEGER(0100	Units are the same as	- YES	reject

		)	for the Uplink RT Load Value IE and Downlink RT Load Value IE.		
>>NRT Load Information				-	
>>>NRT Load Information	М	INTEGER(03)		YES	Reject
<u>&gt;&gt;UpPTS</u> interference			1.28Mcps TDD Only	Ш	
<u>&gt;&gt;&gt;UpPTS</u> interference Value	M	<u>INTEGER</u> (0127,)	According to mapping in [24]	<u>YES</u>	<u>reject</u>

# 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 Carrier Power					-	
>>Transmitted Code Power	М		INTEGER(0127	According to mapping in ref. [23] and [24].	-	
>RSCP				TDD Only	-	
>>RSCP	М		INTEGER(0127	According to mapping in ref. [24]	-	
>Rx Timing Deviation			/	Applicable to 3.84Mcps TDD Only	-	
>>Rx Timing	M		INTEGER(0819	According to mapping		
Deviation			1)	in [24]	-	
Round Trip Time				FDD Only	-	
>>Round Trip Time	Μ		INTEGER(0327 67)	According to mapping in [23]	-	
<u>&gt;Additional</u> <u>Measurement</u> <u>Thresholds</u>					_ _	
≥->-T <sub>UTRAN-GPS</sub> Measurement Threshold Information					-	
≥>>Tutran-gps	М		9.2.1.59C		YES	reject
Measurement Threshold						
Information						
≥->-SFN-SFN Measurement Threshold					-	
Information						
≥>>SFN-SFN Measurement Threshold Information	М		9.2.1.52B		YES	reject
<u>&gt;</u> >Load					-	
≥>>Load	M		INTEGER(0100)	0 is the minimum indicated load, and 100 is the maximum indicated load.	YES	reject
<u>&gt;</u> -> <b>∓</b> ransmitted Carrier Power					-	
<u>&gt;&gt;&gt;Transmitted</u> Carrier Power	М		INTEGER(0100	According to mapping in [23] and [24].	YES	reject
≥>Received Total Wide Band Power			/	ייי נבטן מווע נַבּיּן.	-	
≥>>Received Total Wide Band Power	M		INTEGER(0621 )	According to mapping in [23] and [24].	YES	reject
<u>&gt;</u> ->UL Timeslot ISCP				TDD Only	-	
≥>>UL Timeslot ISCP	М		INTEGER(0127	According to mapping in [24]	YES	reject
>RT Load			/	· ··· L= ·]	-	
>>RT Load	М		INTEGER(0100		YES	reject
>NRT Load			/		-	

Information					
>>>NRT Load	М	INTEGER(03)		YES	reject
Information					
>Rx Timing			Applicable to		
Deviation LCR			1.28Mcps TDD Only		
>>Rx Timing					
Deviation LCR					
>>Rx Timing	М	INTEGER(0255	According to mapping	YES	reject
Deviation LCR		)	in [24]		
>HS-SICH			Applicable to TDD	-	
reception quality			Only		
>>HS-SICH	М	INTEGER (020)	According to mapping	YES	reject
reception			in [24]		
quality					
>>UpPTS			1.28Mcps TDD Only	=	
interference					
>>>UpPTS	M	INTEGER	According to mapping	<u>YES</u>	reject
interference		<u>(0127,)</u>	<u>in [24]</u>		
Value					

### 9.3.4 Information Element Definitions

#### /\* partly omitted \*/

```
id-Maximum-DL-Power-TimeslotLCR-InformationItem,
id-Minimum-DL-Power-TimeslotLCR-InformationItem,
id-HS-SICH-Reception-Quality,
id-HS-SICH-Reception-Quality-Measurement-Value,
id-ExtendedGSMCellIndividualOffset,
id-Unidirectional-DCH-Indicator,
id-RTLoadValue,
id-NRTLoadInformationValue,
id-Satellite-Almanac-Information-ExtItem,
id-UpPTSInterferenceValue
```

FROM RNSAP-Constants

/\* partly omitted \*/

-- C

```
CommonMeasurementAccuracy ::= CHOICE {
    tUTRANGPSMeasurementAccuracyClass
                                             TUTRANGPSAccuracyClass,
    . . .
CommonMeasurementType ::= ENUMERATED {
    uTRAN-GPS-timing-of-cell-frames-for-UE-Positioning,
    sFN-SFN-observerd-time-difference,
    load,
    transmitted-carrier-power,
    received-total-wide-band-power,
    uplink-timeslot-iscp,
    ...,
    rT-load,
    nRT-load-Information,
    upPTSInterference
-- For measurements on the Iur-g interface, only load, RT Load and NRT Load information are requested.
CommonMeasurementValue ::= CHOICE {
    tUTRANGPSMeasurementValueInformation
                                             TUTRANGPSMeasurementValueInformation,
    sFNSFNMeasurementValueInformation
                                             SFNSFNMeasurementValueInformation,
    loadValue
                                        LoadValue,
    transmittedCarrierPowerValue
                                         INTEGER(0..100),
    receivedTotalWideBandPowerValue
                                         INTEGER(0..621),
    uplinkTimeslotISCPValue
                                         UL-TimeslotISCP,
    . . . ,
```

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```
extension-CommonMeasurementValue
                                        Extension-CommonMeasurementValue
Extension-CommonMeasurementValue
                                    ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}
Extension-CommonMeasurementValueIE RNSAP-PROTOCOL-IES ::= {
      ID id-RTLoadValue CRITICALITY ignore TYPE RTLoadValue
                                                                PRESENCE mandatory } |
                                                                                        PRESENCE mandatory }
      ID id-NRTLoadInformationValue CRITICALITY ignore TYPE NRTLoadInformationValue
      ID id-UpPTSInterferenceValue
                                        CRITICALITY reject TYPE
                                                                    UpPTSInterferenceValue
                                                                                                PRESENCE mandatory
-- For measurements on the Iur-g interface, only load, RT Load and NRT Load values are reported.
CommonMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                                CommonMeasurementAvailable,
    measurementnotAvailable
                                NULL
CommonMeasurementAvailable::= SEOUENCE {
    commonMeasurementValue
                                CommonMeasurementValue,
    iE-Extensions
                                    ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs} }
                                                                                                                 OPTIONAL,
    . . .
/* partly omitted */
-- M
/* partly omitted */
MeasurementIncreaseDecreaseThreshold
                                            ::= CHOICE
    sir
                                    SIR-Value-IncrDecrThres,
    sir-error
                                    SIR-Error-Value-IncrDecrThres,
    transmitted-code-power
                                    Transmitted-Code-Power-Value-IncrDecrThres,
                                    RSCP-Value-IncrDecrThres,
    rscp
    round-trip-time
                                    Round-Trip-Time-IncrDecrThres,
    . . . .
    extension-MeasurementIncreaseDecreaseThreshold
                                                        Extension-MeasurementIncreaseDecreaseThreshold
Extension-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementIncreaseDecreaseThresholdIE }}
Extension-MeasurementIncreaseDecreaseThresholdIE RNSAP-PROTOCOL-IES ::= {
     ID id-Load-Value-IncrDecrThres
                                        CRITICALITY reject TYPE Load-Value-IncrDecrThres PRESENCE mandatory }
    { ID id-Transmitted-Carrier-Power-Value-IncrDecrThres CRITICALITY reject TYPE Transmitted-Carrier-Power-Value-IncrDecrThres
                                                                                                                                      PRESENCE
mandatory }|
    { ID id-Received-Total-Wideband-Power-Value-IncrDecrThres CRITICALITY reject TYPE Received-Total-Wideband-Power-Value-IncrDecrThres
    PRESENCE mandatory }
    { ID id-UL-Timeslot-ISCP-Value-IncrDecrThres
                                                  CRITICALITY reject TYPE UL-Timeslot-ISCP-Value-IncrDecrThres PRESENCE mandatory }
```

CR page 12 3GPP TS 25.433 v6.0.0 (2003-12) ID id-RT-Load-Value-IncrDecrThres CRITICALITY reject TYPE RT-Load-Value-IncrDecrThres PRESENCE mandatory } ID id-NRT-Load-Information-Value-IncrDecrThres CRITICALITY reject TYPE NRT-Load-Information-Value-IncrDecrThres PRESENCE mandatory } ID id-UpPTSInterferenceValue CRITICALITY reject TYPE UpPTSInterferenceValue PRESENCE mandatory } MeasurementThreshold ::= CHOICE { sir SIR-Value, sir-error SIR-Error-Value, transmitted-code-power Transmitted-Code-Power-Value, rscp RSCP-Value, rx-timing-deviation Rx-Timing-Deviation-Value, round-trip-time Round-Trip-Time-Value, . . . , extension-MeasurementThreshold Extension-MeasurementThreshold Extension-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementThresholdIE }} Extension-MeasurementThresholdIE RNSAP-PROTOCOL-IES ::= { { ID id-TUTRANGPSMeasurementThresholdInformation CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation PRESENCE mandatory }| { ID id-SFNSFNMeasurementThresholdInformation CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation PRESENCE mandatory }| { ID id-Load-Value CRITICALITY reject TYPE Load-Value PRESENCE mandatory } | { ID id-Transmitted-Carrier-Power-Value CRITICALITY reject TYPE Transmitted-Carrier-Power-Value PRESENCE mandatory }| { ID id-Received-Total-Wideband-Power-Value CRITICALITY reject TYPE Received-Total-Wideband-Power-Value PRESENCE mandatory }| { ID id-UL-Timeslot-ISCP-Value CRITICALITY reject TYPE UL-Timeslot-ISCP-Value PRESENCE mandatory }| { ID id-RT-Load-Value CRITICALITY reject TYPE RT-Load-Value PRESENCE mandatory }| { ID id-NRT-Load-Information-Value CRITICALITY reject TYPE NRT-Load-Information-Value PRESENCE mandatory } { ID id-Rx-Timing-Deviation-Value-LCR CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR PRESENCE mandatory } { ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory } { ID id-UpPTSInterferenceValue CRITICALITY reject TYPE UpPTSInterferenceValue PRESENCE mandatory

```
mandator
```

MidambleConfigurationBurstTypelAnd3 ::= ENUMERATED {v4, v8, v16}

MidambleConfigurationBurstType2 ::= ENUMERATED {v3, v6}

}

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-- U

#### /\* partly omitted \*/

UL-Synchronisation-Frequency ::= INTEGER (1..8)

UL-TimeslotISCP ::= INTEGER (0..127) -- According to mapping in [14]

UpPTSInterferenceValue ::= INTEGER (0..127,...)

```
Unidirectional-DCH-Indicator ::= ENUMERATED {
    downlink-DCH-only,
    uplink-DCH-only
}
```

URA-ID

::= INTEGER (0..65535)

/\* partly omitted \*/

# 9.3.6 Constant Definitions

/\* partly omitted \*/

id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD	ProtocolIE-ID ::= 528
id-RL-ReconfigurationResponseTDD-RL-Information	ProtocolIE-ID ::= 529
id-Satellite-Almanac-Information-ExtItem	ProtocolIE-ID ::= 530
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 533
id-TnlQos	ProtocolIE-ID ::= 534
id-RTLoadValue	ProtocolIE-ID ::= 535
id-NRTLoadInformationValue	ProtocolIE-ID ::= 536
id-CellPortionID	ProtocolIE-ID ::= 537
id-UpPTSInterferenceValue	ProtocolIE-ID ::= 538

END

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### How to create CRs using this form:

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Other comments:

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

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> 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

#### /\* partly omitted \*/

### 8.2.8.4 Abnormal Conditions

If the Common Measurement Type received in the *Common Measurement Type* IE, except for the "HS-DSCH Required Power" and the "HS-DSCH Provided Bit Rate", is not defined in ref. [4] or [5] to be measured on the Common Measurement Object Type received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD - *Time Slot* IE] [1.28Mcps TDD - *Time Slot LCR* IE] is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.]

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the  $T_{UTRAN-GPS}$  Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", but the  $T_{UTRAN-GPS}$  Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is not set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Common Measurement Accuracy* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

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

Common				Report C	haracteri	stics Typ	e		
Measurement Type	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received Total Wide Band Power	Х	Х	Х	Х	Х	Х	Х	Х	
Transmitted Carrier Power	Х	х	Х	Х	х	Х	Х	Х	
Acknowledged PRACH Preambles	Х	Х	Х	Х	Х	Х	Х	Х	
UL Timeslot ISCP	Х	Х	Х	Х	Х	Х	Х	X X	
Acknowledged PCPCH Access Preambles	X	Х	Х	Х	Х	Х	Х	Х	
Detected PCPCH Access Preambles	Х	Х	Х	Х	Х	Х	Х	Х	
UTRAN GPS Timing of Cell Frames for UE Positioning	X	X							X
SFN-SFN Observed Time Difference	X	X							X
Transmitted carrier power of all codes not used for HS- PDSCH or HS- SCCH transmission	X	X	X	X	X	x	X	x	
HS-DSCH Required Power	Х	Х	Х	Х			Х	Х	
HS-DSCH Provided Bit Rate	Х	Х							
UpPTS interference	X	X	<u>X</u>	<u>X</u>	X	<u>X</u>	<u>X</u>	<u>X</u>	

#### Table 4: Allowed Common Measurement Type and Report Characteristics Type combinations

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

/\* partly omitted \*/

1

### 9.2.1.11 Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Measurement Type			ENUMERATED ( Received Total Wide Band Power, Transmitted Carrier Power, Acknowledged PRACH Preambles, UL Timeslot ISCP, Acknowledged PCPCH Access Preambles, Detected PCPCH Access Preambles,	"UL Timeslot ISCP" is used by TDD only, "Acknowledged PRACH Preambles", 'Acknowledged PCPCH Access Preambles', 'Detected PCPCH Access Preambles' are used by FDD only <u>.</u> "UpPTS interference" is used by 1.28Mcps TDD only
			UTRAN GPS Timing of Cell Frames for UE Positioning, SFN-SFN Observed Time Difference, Transmitted carrier power of all codes not used for HS- PDSCH or HS- SCCH transmission, HS-DSCH Required Power, HS-DSCH Provided Bit Rate, 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),	

### 9.2.1.12 Common Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Common Measurement Value	М				-	
>Transmitted Carrier Power					-	
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	-	
Value >Received Total					_	
Wide Band Power >>Received Total	M		INTEGER	According to mapping		
Wide Band Power Value	101		(0621)	in [22] and [23]		
>Acknowledged PRACH Preambles				FDD Only	-	
>>Acknowledged PRACH Preamble Value	М		INTEGER (0240,)	According to mapping in [22]	_	
>UL Timeslot ISCP				TDD Only	_	
>>UL Timeslot ISCP	М		INTEGER (0127)	According to mapping in [23]	_	
>Acknowledged PCPCH Access Preambles				FDD Only	_	
>>Acknowledged PCPCH Access Preambles	М		INTEGER (015,)	According to mapping in [22]	_	
>Detected PCPCH Access Preambles				FDD Only	-	
>>Detected PCPCH Access	М		INTEGER (0240,)	According to mapping in [22]	_	
Preambles >Additional Common Measurement Values					_	
>>UTRAN GPS Timing Of Cell Frames for UE Positioning					-	
>>>Tutran-gps Measurement Value Information	M		9.2.1.64A		YES	ignore
>>SFN-SFN Observed Time Difference					_	
>>>SFN-SFN Measurement Value Information	М		9.2.1.53E		YES	ignore
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission					-	
>>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH Transmission Value	М		INTEGER (0100)	According to mapping in [22] and [23]	YES	ignore
>>HS-DSCH Required Power					-	
>>>HS-DSCH Required Power Value Information	M		9.2.1.31lc		YES	ignore

>>HS-DSCH					_	
Provided Bit Rate						
>>>HS-DSCH Provided Bit Rate	М		9.2.1.31lb		YES	ignore
>>Transmitted Carrier Power For					-	
Cell Portion >>>Transmitted Carrier Power For Cell Portion Value		1< maxNrO fCellPor tions>		FDD Only	GLOBAL	ignore
>>>Cell Portion ID	М		9.2.2.1Ca		-	
>>>Transmitte d Carrier Power Value	М		INTEGER (0100)	According to mapping in [22]	_	
>>Received Total Wide Band Power For Cell Portion					-	
>>>Received Total Wide Band Power For Cell Portion Value		1< maxNrO fCellPor tions>		FDD Only	GLOBAL	ignore
>>>Cell Portion ID	М		9.2.2.1Ca		-	
>>>>Received Total Wide Band Power Value	М		INTEGER (0621)	According to mapping in [22]	-	
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion					-	
>>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH Transmission For Cell Portion Value		1< maxNrO fCellPor tions>		FDD Only	GLOBAL	ignore
>>>Cell Portion ID	М		9.2.2.1Ca		-	
>>>Transmitte d Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission Value	М		INTEGER (0100)	According to mapping in [22]	-	
<u>&gt;&gt;UpPTS</u> interference				1.28Mcps TDD Only	=	
>>UpPTS interference Value	M		<u>INTEGER</u> (0127,)	According to mapping in [23]	<u>YES</u>	<u>reject</u>

### /\* partly omitted \*/

# 9.2.1.43 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Increase/Decrease Threshold	M				_	
>Received Total Wide Band Power					_	
>>Received Total Wide Band Power	M		INTEGER (0620)	Unit: dB Range: 062 dB Step: 0.1 dB	_	
>Transmitted Carrier Power					-	
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	_	
>Acknowledged PRACH Preambles				FDD only	-	
>>Acknowledged PRACH Preambles	М		INTEGER (0240,)	According to mapping in [22]	-	
>UL Timeslot ISCP				TDD only	_	
>>UL Timeslot ISCP	M		INTEGER (0126)	Unit: dB Range: 063 dB Step: 0.5 dB	-	
>SIR					-	
>>SIR	М		INTEGER (062)	Unit: dB Range: 031 dB Step: 0.5 dB	_	
>SIR Error				FDD only	—	
>>SIR Error	М		INTEGER (0124)	Unit: dB Range: 062 dB Step: 0.5 dB	_	
>Transmitted Code Power					-	
>>Transmitted Code Power	M		INTEGER (0112,)	Unit: dB Range: 056 dB Step: 0.5 dB	-	
>RSCP				TDD only	_	
>>RSCP	M		INTEGER (0126)	Unit: dB Range: 063 dB Step: 0.5 dB	_	
>Round Trip Time				FDD only	_	
>>Round Trip Time	M		INTEGER (032766)	Unit: chips Range: 0 2047.875 chips Step: 0.625 chips	_	
>Acknowledged PCPCH Access Preambles				FDD only	-	
>>Acknowledged PCPCH Access Preambles	М		INTEGER (015,)	According to mapping in [22]	-	
>Detected PCPCH Access Preambles				FDD only	-	
>>Detected PCPCH Access Preambles	М		INTEGER (0240,)	According to mapping in [22]	_	
>Additional Measurement Thresholds					_	
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission					-	
>>>Transmitted	М		INTEGER	According to mapping	YES	reject
Carrier Power Of			(0100)	in [22] and [23]		

All Codes Not Used For HS- PDSCH Or HS- SCCH Transmission					
>>Transmitted Carrier Power For Cell Portion			FDD only	-	
>>>Transmitted Carrier Power For Cell Portion	М	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power measurement in [22]	YES	reject
>>Received Total Wide Band Power For Cell Portion			FDD only	1	
>>>Received Total Wide Band Power For Cell Portion	M	INTEGER (0620)	Unit: dB Range: 062 dB Step: 0.1 dB	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion			FDD only	_	
>>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH Transmission For Cell Portion	M	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS-SCCH Transmission measurement in [22]	YES	reject
>UpPTS interference			1.28Mcps TDD Only	=	
>>>UpPTS interference Value	M	<u>INTEGER</u> (0127,)	According to mapping in [23]	<u>YES</u>	<u>reject</u>

### 9.2.1.44 Measurement Threshold

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Threshold	М				-	
>Received Total					-	
Wide Band Power >>Received Total	М		INTEGER	According to mapping	_	
Wide Band Power			(0621)	in [22] and [23]		
>Transmitted Carrier Power					-	
>>Transmitted	М		INTEGER	According to mapping	_	
Carrier Power			(0100)	in [22] and [23]		
>Acknowledged PRACH Preambles				FDD only	-	
>>Acknowledged	M		INTEGER	According to mapping	_	
PRACH Preambles			(0240,)	in [22]		
>UL Timeslot ISCP				TDD only	_	
>>UL Timeslot ISCP	М		INTEGER (0127)	According to mapping in [23]	-	
>SIR			(0127)		_	
>>SIR	Μ		INTEGER	According to mapping	_	
0/0 5			(063)	in [22] and [23]		
>SIR Error >>SIR Error	М		INTEGER	FDD only According to mapping	_	
>>SIK EIIUI	IVI		(0125)	in [22]	_	
>Transmitted Code Power					_	
>>Transmitted	Μ		INTEGER	According to mapping	-	
Code Power			(0127)	in [22] and [23]		
>RSCP >>RSCP	М		INTEGER	TDD only According to mapping	-	
			(0127)	in [23]		
>Rx Timing Deviation				Applicable to 3.84Mcps TDD only	_	
>>Rx Timing	Μ		INTEGER	According to mapping	-	
Deviation >Round Trip Time			(08191)	in [23] FDD only	_	
>>Round Trip Time	М		INTEGER	According to mapping	_	
•			(032767)	in [22]		
>Acknowledged PCPCH Access				FDD only	_	
Preambles						
>>Acknowledged PCPCH Access Preambles	М		INTEGER (015,)	According to mapping in [22]	_	
>Detected PCPCH				FDD only	_	
Access Preambles						
>>Detected PCPCH Access	М		INTEGER (0240,)	According to mapping in [22]	-	
Preambles			(02+0,)			
>Additional					-	
Measurement						
Thresholds >>UTRAN GPS					_	
Timing Of Cell						
Frames For UE						
Positioning >>>Tutran-gps	M		9.2.1.64B		YES	reject
>>>IUTRAN-GPS Measurement			3.2.1.04D		160	reject
Threshold						
Information						
>>SFN-SFN Observed Time					-	
Difference						
>>>SFN-SFN	М		9.2.1.53C		YES	reject
Measurement Threshold						

Information					
>>Rx Timing Deviation LCR			Applicable to 1.28Mcps TDD Only	_	
>>>Rx Timing Deviation LCR	Μ	INTEGER (0511)	According to mapping in [23]	YES	reject
>>HS-SICH Reception Quality			Applicable to TDD Only	-	
>>>HS-SICH	M	INTEGER	According to mapping	YES	reject
Reception Quality		(020)	in [23]	_	
Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission					
>>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH Transmission	M	INTEGER (0100)	According to mapping in [22] and [23]	YES	reject
>>HS-DSCH				_	
Required Power >>>HS-DSCH Required Power Value	M	9.2.1.31lba		YES	reject
>>Transmitted Carrier Power For Cell Portion			FDD only	_	
>>>Transmitted Carrier Power For Cell Portion	Μ	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power measurement in [22]	YES	reject
>>Received Total Wide Band Power For Cell Portion			FDD only	_	
>>>Received Total Wide Band Power For Cell Portion	M	INTEGER (0621)	Mapping identical to the one for Received Total Wide Band Power measurement in [22]	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion			FDD only	_	
>>> Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH Transmission Value For Cell Portion	M	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS-SCCH Transmission measurement in [22]	YES	reject
>Additional Measurement Thresholds				_	
>>UTRAN GPS Timing Of Cell Frames For UE Positioning				-	
>>>T <sub>UTRAN-GPS</sub> Measurement	М	9.2.1.64B		YES	reject

Thrashold	<u> </u>				
Threshold Information					
>>SFN-SFN				_	
Observed Time					
Difference					
>>>SFN-SFN	M	9.2.1.53C		YES	reject
Measurement					
Threshold					
Information					
>>Rx Timing			Applicable to	_	
Deviation LCR			1.28Mcps TDD Only		
>>>Rx Timing	М	INTEGER	According to mapping	YES	reject
Deviation LCR	l – –	(0511)	in [23]		
>>HS-SICH			Applicable to TDD	_	
Reception Quality >>>HS-SICH	M	INTEGER	Only	YES	raiaat
	IVI		According to mapping	TES	reject
Reception Quality		(020)	in [23]		
Carrier Power Of All				—	
Codes Not Used					
For HS-PDSCH Or					
HS-SCCH					
Transmission					
>>>Transmitted	М	INTEGER	According to mapping	YES	reject
Carrier Power Of		(0100)	in [22] and [23]		,
All Codes Not					
Used For HS-					
PDSCH Or HS-					
SCCH					
Transmission					
>>HS-DSCH				-	
Required Power					
>>>HS-DSCH	М	9.2.1.31lba		YES	reject
Required Power					
Value >>Transmitted					
Serrier Power For			FDD only	-	
Cell Portion					
>>>Transmitted	м	INTEGER	Mapping identical to	YES	reject
Carrier Power For		(0100)	the one for	120	10,000
Cell Portion		(	Transmitted Carrier		
			Power measurement		
			in [22]		
>>Received Total			FDD only	-	
Wide Band Power					
For Cell Portion					
>>>Received	M	INTEGER	Mapping identical to	YES	reject
Total Wide Band		(0621)	the one for Received		
Power For Cell			Total Wide Band		
Portion			Power measurement		
> Tronomitted	┼───┼──		in [22]		
>>Transmitted Carrier Power Of All			FDD only	_	
Carrier FUWER ULAII	1 1	1			
Codes Not Llead					1
Codes Not Used For HS-PDSCH Or					
For HS-PDSCH Or					
For HS-PDSCH Or HS-SCCH					
For HS-PDSCH Or HS-SCCH Transmission For	M	INTEGER	Mapping identical to	YES	reiect
For HS-PDSCH Or HS-SCCH Transmission For Cell Portion	M	INTEGER (0100)	Mapping identical to the one for	YES	reject
For HS-PDSCH Or HS-SCCH Transmission For Cell Portion >>> Transmitted	M		the one for Transmitted Carrier	YES	reject
For HS-PDSCH Or HS-SCCH Transmission For Cell Portion >>> Transmitted Carrier Power Of All Codes Not Used For HS-	M		the one for Transmitted Carrier Power Of All Codes	YES	reject
For HS-PDSCH Or HS-SCCH Transmission For Cell Portion >>> Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS-	M		the one for Transmitted Carrier Power Of All Codes Not Used For HS-	YES	reject
For HS-PDSCH Or HS-SCCH Transmission For Cell Portion >>> Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH	M		the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS-SCCH	YES	reject
For HS-PDSCH Or HS-SCCH Transmission For Cell Portion >>> Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH Transmission	M		the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS-SCCH Transmission	YES	reject
For HS-PDSCH Or HS-SCCH Transmission For Cell Portion >>> Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- SCCH	M		the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS-SCCH	YES	reject

interference					
>>>UpPTS	<u>M</u>	INTEGER	According to mapping	<u>YES</u>	<u>reject</u>
interference Value		<u>(0127,)</u>	<u>in [23]</u>		

### 9.3.4 Information Elements Definitions

```
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission,
          id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortion,
          id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue,
          id-HS-DSCHRequiredPower,
          id-HS-DSCHProvidedBitRate,
          id-HS-DSCHRequiredPowerValue,
          id-Best-Cell-Portions-Value,
         id-Unidirectional-DCH-Indicator,
         id-SAT-Info-Almanac-ExtItem,
         id-TnlQos,
         id-UpPTSInterferenceValue
FROM NBAP-Constants
/* partly omitted */
        _____
         С
 /* partly omitted *
CommonMeasurementAccuracy ::= CHOICE {
         tUTRANGPSMeasurementAccuracyClass
                                                                                                            TUTRANGPSAccuracyClass,
          . . .
CommonMeasurementType ::= ENUMERATED {
         received-total-wide-band-power,
          transmitted-carrier-power,
         acknowledged-prach-preambles,
          ul-timeslot-iscp,
          acknowledged-PCPCH-access-preambles,
         detected-PCPCH-access-preambles,
          . . . ,
          uTRAN-GPS-Timing-of-Cell-Frames-for-UE-Positioning,
          sFN-SFN-Observed-Time-Difference,
          transmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission,
          hS-DSCH-Required-Power,
         hS-DSCH-Provided-Bit-Rate,
         received-total-wide-band-power-for-cellPortion,
          transmitted-carrier-power-for-cellPortion,
          transmitted {\tt CarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission-for-cellPortion}, the transmission-for-cellPortion}, the transmission {\tt CarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission-for-cellPortion}, the transmission {\tt CarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-PDSCHORHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-for-cellPowerOfAllCodesNotUsedForHS-SCCHTransmission-forHS-SCCHTransmission-forHS-SCCHTransmission-forHS-SCCHTransmission-forHS-SCCHTAllCodesNo
         upPTS-Interference
```

```
CommonMeasurementValue ::= CHOICE {
```

transmitted-carrier-power received-total-wide-band-power acknowledged-prach-preambles uL-TimeslotISCP acknowledged-PCPCH-access-preambles detected-PCPCH-access-preambles	Transmitted-Carrier-Power-Value, Received-total-wide-band-power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, Acknowledged-PCPCH-access-preambles, Detected-PCPCH-access-preambles,				
extension-CommonMeasurementValue }	Extension-CommonMeasurementValue				
Extension-CommonMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}					
<pre>Extension-CommonMeasurementValueIE NBAP-PR { ID id-TUTRANGPSMeasurementValueInformati }         { ID id-SFNSFNMeasurementValueInformat mandatory }         { ID id-TransmittedCarrierPowerOfAllCodesNotUsedFor TransmittedCarrierPowerOfAllCodesNotUsedFor</pre>	on CRITICALITY ignore TYPE TUTRANGPSMeasurementValueInformation ion CRITICALITY ignore TYPE SFNSFNMeasurementValueInformation desNotUsedForHS-PDSCHOrHS-SCCHTransmission CRITICALITY ignore TYPE	PRESENCE mandatory PRESENCE			
{    ID id-HS-DSCHRequiredPower	CRITICALITY ignore TYPE HS-DSCHRequiredPower	PRESENCE			
<pre>mandatory }  { ID id-HS-DSCHProvidedBitRate CRITICALITY ignore TYPE HS-DSCHProvidedBitRate PRESENCE mandatory } </pre>					
{ ID id-Transmitted-Carrier-Power-For-CellPortion-Value CRITICALITY ignore TYPE Transmitted-Carrier-Power-For-CellPortion-Value PRESENCE mandatory }					
<pre>{ ID id-Received-total-wide-band-power-For-CellPortion-Value CRITICALITY ignore TYPE Received-total-wide-band-power-For-CellPortion- Value PRESENCE mandatory }      { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue CRITICALITY ignore TYPE</pre>					
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue PRESENCE mandatory }					
<pre>{ ID id-UpPTSInterferenceValue CR }</pre>	ITICALITY ignore TYPE UpPTSInterferenceValue PRESENCE mandatory }				

CommonMeasurementValueInformation ::= CHOICE {

measurementAvailable	CommonMeasurementAvailable,
measurementnotAvailable	CommonMeasurementnotAvailable

#### /\* partly omitted \*/

}

}

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

#### /\* partly omitted \*/

ReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 ...

```
ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
```

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transmitted-carrier-power	Received-total-wide-band-power-Value-IncrDecrThres,					
	Transmitted-Carrier-Power-Value,					
acknowledged-prach-preambles	Acknowledged-PRACH-preambles-Value,					
uL-TimeslotISCP	UL-TimeslotISCP-Value-IncrDecrThres,					
sir SI	R-Value-IncrDecrThres,					
sir-error SI	R-Error-Value-IncrDecrThres,					
transmitted-code-power						
rscp	RSCP-Value-IncrDecrThres,					
round-trip-time	Round-Trip-Time-IncrDecrThres,					
acknowledged-PCPCH-access-prea						
detected-PCPCH-access-preamble						
_	beteeted for access preambres,					
····	sType-MeasurementIncreaseDecreaseThreshold Extension-ReportCharacteristicsType-					
MeasurementIncreaseDecreaseThresho						
Measurement increaseDecreaseInresho						
}						
	e-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-					
ReportCharacteristicsType-Measurem	entIncreaseDecreaseThresholdIE }}					
	e-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::= {					
	llCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission CRITICALITY reject TYPE					
	otUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory}					
{ ID id-Transmitted-Carrier-Power-						
-	ower-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value-IncrDecrThres					
PRESENCE mandatory }						
{ ID id-TransmittedCarrierPowerOfA	llCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortion CRITICALITY reject TYPE					
TransmittedCarrierPowerOfAllCodesN	otUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory }_					
{ ID id-UpPTSInterferenceValue	CRITICALITY reject TYPE UpPTSInterferenceValue PRESENCE mandatory }					
}						
ReportCharacteristicsType-Measurem	entThreshold ::= CHOICE {					
received-total-wide-band-power	Received-total-wide-band-power-Value,					
received-total-wide-band-power transmitted-carrier-power	Received-total-wide-band-power-Value, Transmitted-Carrier-Power-Value,					
-						
transmitted-carrier-power	Transmitted-Carrier-Power-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-prea	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Transmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles,					
transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-preamble	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Transmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles,					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-preamble ,</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles,					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-preamble , extension-ReportCharacteristic</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles,					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-preamble ,</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles,					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-prea detected-PCPCH-access-preamble , extension-ReportCharacteristic }</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles, s Stype-MeasurementThreshold Extension-ReportCharacteristicsType-MeasurementThreshold					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-prea detected-PCPCH-access-preamble , extension-ReportCharacteristic }</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles, s Stype-MeasurementThreshold Extension-ReportCharacteristicsType-MeasurementThreshold					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-prea detected-PCPCH-access-preamble , extension-ReportCharacteristic }</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles, s Stype-MeasurementThreshold Extension-ReportCharacteristicsType-MeasurementThreshold					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-prea detected-PCPCH-access-preamble , extension-ReportCharacteristicsTyp MeasurementThresholdIE }}</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles, s Stype-MeasurementThreshold Extension-ReportCharacteristicsType-MeasurementThreshold					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-prea detected-PCPCH-access-preamble , extension-ReportCharacteristicsTyp MeasurementThresholdIE }}</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Value, R-Error-Value, Transmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles, s Detected-PCPCH-access-preambles, sType-MeasurementThreshold Extension-ReportCharacteristicsType-MeasurementThreshold e-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType- e-MeasurementThresholdIE NBAP-PROTOCOL-IES ::= {					
<pre>transmitted-carrier-power acknowledged-prach-preambles uL-TimeslotISCP sir SI sir-error SI transmitted-code-power rscp rx-timing-deviation round-trip-time acknowledged-PCPCH-access-prea detected-PCPCH-access-preamble , extension-ReportCharacteristicsTyp MeasurementThresholdIE }}</pre>	Transmitted-Carrier-Power-Value, Acknowledged-PRACH-preambles-Value, UL-TimeslotISCP-Value, R-Value, R-Tansmitted-Code-Power-Value, RSCP-Value, Rx-Timing-Deviation-Value, Round-Trip-Time-Value, mbles Acknowledged-PCPCH-access-preambles, s Detected-PCPCH-access-preambles, sType-MeasurementThreshold Extension-ReportCharacteristicsType-MeasurementThreshold e-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType- e-MeasurementThresholdIE NBAP-PROTOCOL-IES ::= {					

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```
{ ID id-SFNSFNMeasurementThresholdInformation
                                                      CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation
                                                                                                                     PRESENCE mandatory
}|
     ID id-Rx-Timing-Deviation-Value-LCR
                                                      CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
                                                                                                                PRESENCE mandatory }
     ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE
mandatory } |
                                                                                                                TYPE
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission CRITICALITY reject
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory}
     ID id-HS-DSCHRequiredPowerValue
                                                      CRITICALITY reject TYPE HS-DSCHRequiredPowerValue PRESENCE mandatory
     ID id-Transmitted-Carrier-Power-For-CellPortion CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
                                                                                                                PRESENCE mandatory }
     ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value
                                                                                                                        PRESENCE
mandatory }
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortion CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue
                                                                                 PRESENCE mandatory }
    { ID id-UpPTSInterferenceValue
                                      CRITICALITY reject TYPE
                                                                 UpPTSInterferenceValue
                                                                                             PRESENCE mandatory }
ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE {
                       MeasurementChangeTime-Scaledmsec,
   msec
   . . .
MeasurementChangeTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
                       MeasurementHysteresisTime-Scaledmsec,
   msec
   . . .
/* partly omitted */
TT
  /* partly omitted */
UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeSlot-ISCP-LCR-InfoItem
UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
   timeSlotLCR
                                  TimeSlotLCR,
   iSCP
                                  UL-TimeslotISCP-Value,
   iE-Extensions
                                  ProtocolExtensionContainer { { UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs } }
                                                                                                                  OPTIONAL,
   . . .
 }
UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
```

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UpPTSInterferenceValue ::= INTEGER (0..127,...)

```
Unidirectional-DCH-Indicator ::= ENUMERATED {
    downlink-DCH-only,
    uplink-DCH-only
}
```

USCH-Information ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem

/\* partly omitted \*/

# 9.3.6 Constant Definitions

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
id-TnlQos	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	S-SCCHTransmissionCellPortion ProtocolIE-ID ::= 620
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS	S-SCCHTransmissionCellPortionValue ProtocolIE-ID ::= 621
id-UpPTSInterferenceValue	ProtocolIE-ID ::= 622