Source:NokiaTitle:CR 25.215-047 : Removal of RSCP measurementDocument for:Approval

UE RSCP measurement was discussed in TSG RAN Ad Hoc meeting on RRM in Turin on February 9th 2000. Discussion was based on Nokia contribution RPA000042.

The conclusion of the RRM adhoc was that RSCP definition should only be included in SIR measurement. A separate UE RSCP measurement is not supported in FDD anymore.

The attached CR is provided to delete the UE RSCP measurement from TS25.215.

3GPP TSG-RAN WG1 meeting #11 Document R1(00)0348			R1(00)0348				
San Diego, CA, USA, 29 th Feb – 3 rd Mar 2000							
		3G C	HANGE	REQ	UEST	Please see embedded he page for instructions on he correctly.	lp file at the bottom of this ow to fill in this form
			25.215	CR	047	Current Versi	on: <mark>3.1.1</mark>
		3G specification	number ↑		↑ CR num	ber as allocated by 3G supp	port team
For submisior list TSG	ר to meet	TSG RAN#7 ing no. here ↑	for appro	tion X	(only one bo be marked w	x should vith an X)	
		Form: 3G CF	cover sheet, version 1.	.0 I he lai	test version of this f	orm is available from: ttp://ttp.3gj	pp.org/Information/3GCRF-xx.rtf
Proposed cha (at least one should	be m	e affects: arked with an X)			ME X	UTRAN	Core Network
Source:		TSG RAN WG	1			Date:	29.2.2000
Subject:		Removal of RS	CP measurem	nent			
3G Work item	<u>:</u>						
Category: (only one category shall be marked with an X)	F A B C D	Correction Corresponds to Addition of fea Functional modif Editorial modif	o a correction i ture dification of fea ication	in a 2G s ature	specificatior		
<u>Reason for</u> change:		To implement a RSCP measurem	decision made tent to 25.215. T	in TSG The meas	RAN Ad He urement is th	oc meeting on RRM, us included only in S	this CR deletes UE IR measurement.
Clauses affec	ted	<u>5.1.3 RSC</u>	P measureme	ent			
Other specs affected:	C C N E C	Other 3G core s Other 2G core s MS test specifica 3SS test specific D&M specificatio	Decifications Decifications ations Cations Dens		$\begin{array}{l} \rightarrow \ \text{List of CF} \\ \rightarrow \ \text{List of CF} \end{array}$	Rs: Rs: Rs: Rs: Rs:	
<u>Other</u> comments:							

Column field	Comment
Definition	Contains the definition of the measurement.
Applicable for	States if a measurement shall be possible to perform in Idle mode and/or Connected mode. For connected mode also information of the possibility to perform the measurement on intra- frequency and/or inter-frequency are given. The following terms are used in the tables: Idle = Shall be possible to perform in idle mode Connected Intra = Shall be possible to perform in connected mode on an intra-frequency Connected Inter = Shall be possible to perform in connected mode on an inter-frequency
Range/mapping	Gives the range and mapping to bits for the measurements quantity.

5.1.1 CPICH RSCP

Definition	Received Signal Code Power, the received power on one code measured on the pilot bits of the
	Primary CPICH. The reference point for the RSCP is the antenna connector at the UE.
Applicable for	Idle, Connected Intra, Connected Inter
Range/mapping	CPICH RSCP is given with a resolution of 1 dB with the range [-115,, -25] dBm. CPICH RSCP shall be reported in the unit CPICH_RSCP_LEV where:
	CPICH_RSCP_LEV _00: CPICH RSCP < -115 dBm CPICH_RSCP_LEV _01: -115 dBm \leq CPICH RSCP < -114 dBm CPICH_RSCP_LEV _02: -114 dBm \leq CPICH RSCP < -113 dBm CPICH_RSCP_LEV _89: -27 dBm \leq CPICH RSCP < -26 dBm CPICH_RSCP_LEV _90: -26 dBm \leq CPICH RSCP < -25 dBm
	$CPICH_RSCP_LEV_91: -25 \text{ dBm} \le CPICH RSCP$

5.1.2 PCCPCH RSCP

Definition	Received Signal Code Power, the received power on one code measured on the PCCPCH from a TDD cell. The reference point for the RSCP is the antenna connector at the UE.
	The RSCP can either be measured on the data part or the midamble of a burst, since there is no power difference between these two parts. However, in order to have a common reference, measurement on the midamble is assumed.
Applicable for	Idle, Connected Inter
Range/mapping	PCCPCH RSCP is given with a resolution of 1 dB with the range [-115,, -25] dBm. PCCPCH RSCP shall be reported in the unit PCCPCH _RSCP_LEV where:
	PCCPCH _RSCP_LEV _00: PCCPCH RSCP < -115 dBm
	PCCPCH RSCP_LEV _01: -115 dBm \leq PCCPCH RSCP < -114 dBm
	PCCPCH _RSCP_LEV _02: -114 dBm ≤ PCCPCH RSCP < -113 dBm
	PCCPCH _RSCP_LEV _89: -27 dBm \leq PCCPCH RSCP < -26 dBm
	PCCPCH _RSCP_LEV _90: -26 dBm \leq PCCPCH RSCP < -25 dBm
	PCCPCH _RSCP_LEV _91: -25 dBm \leq PCCPCH RSCP

5.1.3 RSCP

Definition	Received Signal Code Power, the received power on one code measured on the pilot bits of
	the DPCCH after RL combination. The reference point for the RSCP is the antenna connector
	at the UE.
Applicable for	Connected Intra

Range/mapping	RSCP is given with a resolution of 1 dB with the range [-115,, -40] dBm. RSCP is given with a resolution of 1 dB with the range [-115,, -25] dBm. RSCP shall be reported in the unit RSCP_LEV where:
	RSCP_LEV _00: RSCP < -115 dBm RSCP_LEV _01: -115 dBm ≤ RSCP < -114 dBm RSCP_LEV _02: -114 dBm ≤ RSCP < -113 dBm
	 RSCP_LEV _89: -27 dBm

<u>5.1.4 5.1.3</u> SIR

Definition	Signal to Interference Ratio, defined as: (RSCP/ISCP)×(SF/2). The SIR shall be measured on DPCCH after RL combination. The reference point for the SIR is the antenna connector of the UE. where: RSCP = Received Signal Code Power, the received power on one code measured on the pilot bits.
	ISCP = Interference Signal Code Power, the interference on the received signal measured on the pilot bits. Only the non-orthogonal part of the interference is included in the measurement. SF=The spreading factor used.
Applicable for	Connected Intra
Range/mapping	SIR is given with a resolution of 0.5 dB with the range [-11,, 20] dB. SIR shall be reported in the unit UE_SIR where:
	UE_SIR_00; SIR < -11.0 dB
	UE_SIR_01: -11.0 dB \leq SIR < -10.5 dB
	UE_SIR_02: -10.5 dB ≤ SIR < –10.0 dB
	UE_SIR_61: 19.0 dB ≤ SIR < 19.5 dB
	UE_SIR_62: 19.5 dB ≤ SIR < 20.0 dB
	UE_SIR_63: 20.0 dB \leq SIR

5.1.5 5.1.4 UTRA carrier RSSI

Definition	Received Signal Strength Indicator, the wide-band received power within the relevant channel bandwidth. Measurement shall be performed on a UTRAN downlink carrier. The reference point for the RSSI is the antenna connector at the UE.
Applicable for	Idle, Connected Intra, Connected Inter
Range/mapping	UTRA carrier RSSI is given with a resolution of 1 dB with the range [-94,, -32] dBm. UTRA carrier RSSI shall be reported in the unit UTRA_carrier_RSSI_LEV where: UTRA_carrier_RSSI_LEV _00: UTRA carrier RSSI < -94 dBm UTRA_carrier_RSSI_LEV _01: -94 dBm ≤ UTRA carrier RSSI < -93 dBm UTRA_carrier_RSSI_LEV _02: -93 dBm ≤ UTRA carrier RSSI < -92 dBm
	UTRA_carrier_RSSI_LEV _61: -32 dBm \leq UTRA carrier RSSI < -33 dBm UTRA_carrier_RSSI_LEV _61: -33 dBm \leq UTRA carrier RSSI < -32 dBm UTRA_carrier_RSSI_LEV _62: -33 dBm \leq UTRA carrier RSSI < -32 dBm UTRA_carrier_RSSI_LEV _63: -32 dBm \leq UTRA carrier RSSI