TSG-RAN Meeting #6 Nice, France, 13 – 15 December 1999

TSGRP#6(99)690

Title: Conditionally Agreed CR of category "F" (Corrections) to TS 25.215

Source: TSG-RAN WG1

Agenda item: 5.1.3

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc
25.215	017	1	R99	CPICH SIR measurement	F	3.0.0	3.1.0	R1-99l50

NOTE: The source of this document is TSG-RAN WG1. The source shown on each CR cover sheet is the originating organisation.

TSGR1#9(99)L50

TSG-RAN Working Group 1 meeting #9 Dresden, Germany November 30 – December 3, 1999

Agenda item:

Title: CR 25.215-017r1: CPICH SIR measurements.

Source: Telia AB

Document for: Decision

Background

According to the latest versions of the RAN-2 specifications TS 25.302 and TS 25.331, it shall be possible to measure the SIR on the CPICH. In this CR, it is proposed to update TS 25.215 accordingly.

Revision history

The CR has been updated according to the decisions taken for SIR measurements on the dedicated channels (R1-99-L10, CR 25.215-009r2).

3GPP TSG RAN WG1 Meeting #9 Dresden, Germany, Nov 30 - Dec 3, 1999

Document R1#9(99)I50 e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

		CHANGE I	REQ	JEST			file at the bottom of v to fill in this form co	
		25.215	CR	017r1		Current Vers	ion: 3.0.0	
GSM (AA.BB) or 3G	G (AA.BBB) specific	ation number↑		↑ CR n	number as	s allocated by MCC	support team	
					egic use	SMG only)		
Proposed chang	ge affects:	ersion 2 for 3GPP and SMG (U)SIM	ME			le from: ttp://ttp.3gpp.	Core Networ	
Source:	Telia AB					Date:	1999-11-30	
Subject:	CPICH SIR	measurement						
Work item:								
Category: (only one category shall be marked with an X)	A Correspond B Addition of C Functional	modification of fea		rlier release	X	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
Reason for change:		ility to measure SI ns TS 25.302 and						5
Clauses affecte	<u>d:</u> 5.1, 5.	1.4						
Other specs affected:		cifications	-	→ List of C	Rs: Rs: Rs:			
Other comments:								

5.1 UE measurement abilities

The structure of the table defining a UE measurement quantity is shown below:

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 after de-spreading measured on the pilot bits of the CPICH. The reference point for the RSCP is the antenna connector at the UE.
Applicable for	Idle, Connected Intra, Connected Inter
Range/mapping	

5.1.2 RSCP

	Received Signal Code Power, the received power on one code after de-spreading 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	

5.1.3 ISCP

Note that it is not a requirement that the ISCP shall be possible to report to higher layers. The ISCP is defined in this section because it is included in the definition of SIR.

Definition	Interference Signal Code Power, the interference on the received signal after de-spreading. Only
	the non-orthogonal part of the interference is included in the measurement. The reference point
	for the ISCP is the antenna connector at the UE.

5.1.4 CPICH SIR

<u>Definition</u>	Signal to Interference Ratio, defined as: (RSCP/ISCP)×(SF/2). The SIR shall be measured on CPICH pilot bits. 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 on the CPICH.
Applicable for	Idle, Connected Intra, Connected Inter
Range/mapping	CPICH SIR is given with a resolution of 0.5 dB with the range [-11,, 20] dB. CPICH SIR shall be reported in the unit UE_CPICH_SIR where:
	UE_CPICH_SIR_00: CPICH SIR < -11.0 dB
	UE_CPICH_SIR_01: -11.0 dB ≤ CPICH SIR < -10.5 dB
	<u>UE_CPICH_SIR_02: -10.5 dB \leq CPICH_SIR $< -10.0 dB$</u>
	 <u>UE_CPICH_SIR_61: 19.0 dB ≤ CPICH SIR < 19.5 dB</u>
	<u>UE_CPICH_SIR_62: 19.5 dB ≤ CPICH_SIR < 20.0 dB</u> UE_CPICH_SIR_63: 20.0 dB ≤ CPICH_SIR

5.1.4<u>5</u> SIR

	Signal to Interference Ratio, defined as the RSCP divided by ISCP. The SIR shall be measured on DPCCH after RL combination. The reference point for the SIR is the antenna connector of		
	the UE.		
Applicable for	Connected Intra		
Range/mapping			