TSG RAN Meeting #18
RP-020797
New Orleans, US, 3 - 6 December, 2002

Title CR (Rel-5) to TS 25.123

Source TSG RAN WG4

Agenda Item 7.4.5

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-021573	25.123	285		F	Rel-5	5.2.0	P-CCPCH RSCP and CPICH RSCP signalling range extension	LCRTDD-RF

3GPP TSG RAN WG4 (Radio) Meeting #25 Secaucus, NJ, USA 11 - 15 November, 2002

R4-021573

CR-Form-v7 CHANGE REQUEST \mathfrak{R} 25.123 CR Current version: 285 **# rev** For **HELP** on using this form, see bottom of this page or look at the pop-up text over the **%** symbols. ME X Radio Access Network X Core Network UICC apps# Proposed change affects: Title: # P-CCPCH RSCP and CPICH RSCP signalling range extension Source: **RAN WG4** Date: 第 26/11/2002 F Release: ₩ Rel-5 Category: Use one of the following categories: Use one of the following releases: F (correction) 2 (GSM Phase 2) A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) R98 (Release 1998) **D** (editorial modification) (Release 1999) R99 Detailed explanations of the above categories can Rel-4 (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6) Reason for change: # The signalling range of PCCPCH RSCP and CPICH RSCP was extended in WG2 specification based on a WG4 proposal to allow optimized cell design. Summary of change: * The lowest value for PCCPCH RSCP and CPICH RSCP is changed from -115dBm to -120dBm. Consequences if # Operators may not be able to optimize the cell design. not approved: Inconsistency with RAN2 第 9.1.1.1.3, 9.1.1.2.1.2 Clauses affected: Other specs \mathfrak{R} Other core specifications Test specifications affected: **O&M Specifications**

How to create CRs using this form:

Other comments:

 \mathfrak{R}

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

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ contain pop-up help information about the field that they are closest to
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

9.1.1.1.3 Range/mapping

The reporting range for *P-CCPCH RSCP* is from -12045 ...-25 dBm. In table 9.4 mapping of the measured quantity is defined. Signalling range may be larger than the guaranteed accuracy range.

Table 9.4

Reported value	Measured quantity value	<u>Unit</u>
P-CCPCH RSCP_LEV05	P-CCPCH RSCP <-120	<u>dBm</u>
P-CCPCH RSCP LEV -04	-120 ≤ P-CCPCH RSCP < -119	<u>dBm</u>
P-CCPCH RSCP LEV -03	-119 ≤ P-CCPCH RSCP < -118	<u>dBm</u>
<u></u>	<u></u>	<u></u>
P-CCPCH RSCP LEV 89	-27 ≤ P-CCPCH RSCP < -26	<u>dBm</u>
P-CCPCH RSCP LEV 90	-26 ≤ P-CCPCH RSCP < -25	<u>dBm</u>
P-CCPCH RSCP LEV 91	-25 ≤ P-CCPCH RSCP	<u>dBm</u>

Reported value	Measured quantity value	Unit
P-CCPCH RSCP_LEV _00	P-CCPCH RSCP < 115	dBm
P-CCPCH RSCP_LEV _01	-115 ≤ P-CCPCH RSCP < -114	dBm
P-CCPCH RSCP_LEV _02	-114 ≤ P-CCPCH RSCP < -113	dBm
		
P-CCPCH RSCP_LEV _89	-27 ≤ P-CCPCH RSCP < -26	dBm
P-CCPCH RSCP_LEV _90	-26 ≤ P-CCPCH RSCP < -25	dBm
P-CCPCH RSCP_LEV_91	-25 ≤ P-CCPCH RSCP	dBm

9.1.1.2 CPICH measurements (FDD)

Note: This measurement is used for handover between UTRA TDD and UTRA FDD.

These measurements consider *CPICH RSCP* and *CPICH Ec/lo* measurements. The requirements in this section are valid for terminals supporting this capability. The measurement period for CELL_DCH state and CELL_FACH state can be found in section 8.

9.1.1.2.1 CPICH RSCP

9.1.1.2.1.1 Inter frequency measurement absolute accuracy requirement

The accuracy requirements in table 9.5 are valid under the following conditions: $CPICH_RSCP1|_{dBm} \ge -114 \ dBm$.

$$\frac{I_{o}}{\left(\hat{I}_{or}\right)_{in\ dB}} - \left(\frac{CPICH _E_{c}}{I_{or}}\right)_{in\ dB} \le 20dB$$

Table 9.5: CPICH_RSCP Inter frequency absolute accuracy

		Accura	Conditions	
Parameter	Unit	Normal condition	Extreme condition	lo [dBm/ 3.84 MHz]
CPICH RSCP	dBm	± 6	± 9	-9470
CFICH_NGCF	dBm	± 8	± 11	-7050

9.1.1.2.1.2 Range/mapping

The reporting range for *CPICH RSCP* is from -12015 ...-25 dBm.

In table 9.6 mapping of the measured quantity is defined. Signalling range may be larger than the guaranteed accuracy range.

Table 9.6

Reported value	Measured quantity value	<u>Unit</u>
CPICH RSCP LEV -05	CPICH RSCP <-120	<u>dBm</u>
CPICH RSCP LEV -04	<u>-120 ≤ CPICH RSCP < -119</u>	<u>dBm</u>
CPICH RSCP LEV -03	-119 ≤ CPICH RSCP < -118	<u>dBm</u>
<u></u>	<u></u>	<u></u>
CPICH RSCP LEV 89	<u>-27 ≤ CPICH RSCP < -26</u>	<u>dBm</u>
CPICH RSCP LEV 90	<u>-26 ≤ CPICH RSCP < -25</u>	<u>dBm</u>
CPICH RSCP LEV 91	-25 ≤ CPICH RSCP	<u>dBm</u>

Reported value	Measured quantity value	Unit
CPICH_RSCP_LEV _00	CPICH RSCP < 115	dBm
CPICH_RSCP_LEV_01	-115 ≤ CPICH RSCP < -114	dBm
CPICH_RSCP_LEV _02	-114 ≤ CPICH RSCP < -113	dBm
		
CPICH_RSCP_LEV _89	-27 ≤ CPICH RSCP < -26	dBm
CPICH_RSCP_LEV _90	-26 ≤ CPICH RSCP < -25	dBm
CPICH RSCP LEV 91	-25 ≤ CPICH RSCP	dBm