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

TSGRP#6(99)760

Title: **Agreed CRs of category "B" (New feature) to TS 25.427**

Source: **TSG-RAN WG3**

Agenda item: **5.4.3**

Doc #	Status-	Spec	CR	Rev	Subject	Cat	Versio	Versio
R3-99k03	agreed	25.427	005		Clarification of the selection of the	B	3.0.0	3.1.0

3GPP TSG-RAN Meeting #6
Nice, France, 13-15 December 1999

***Document* R3-99K03**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.427	CR	005	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG RAN #6	for approval	X	Strategic		*(for SMG use only)*
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME		UTRAN / Radio	X	Core Network	

Source: TSG-RAN WG3 **Date:** Dec ,1999

Subject: Clarification of the selection of the QE (previous I02).

Work item:

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature	X		Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:

Clarification for the chapter 6.2.4.5 Quality Estimate (QE).

This CR proposes that in the normal UL transmission mode when there is no user data to be transferred uplink in the concerned transport channel the QE shall be derived from the DPCCH BER in order to support the UL Outer Loop Power Control.

Currently in the normal mode as well as in the silent mode the QE is derived from the DPDCH BER i.e. only when user data is available. Therefore the update frequency of the SIR target drops in periods when no user data is transferred uplink with the result that the SIR target is likely either too high or too low when the UL traffic resumes. In this case, when the user data is not available, the QE could also be measured from DPCCH and it can sent to RNC (UL transmission mode is normal).

When the UL transmission mode is silent the QE shall be measured only from DPDCH since the Node B shall not send UL data frame when it has received zero bits for a transport channel.

WG1 has decided to have DPCCH Physical Channel BER measurement.

Clauses affected:

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

6.2.4.5 Quality Estimate (QE)

Description: The quality estimate is derived from the [FDD - DPDCH or DPCCH][TDD - DPCH] Physical Channel BER (see Ref. [25.302]) as follows:

$$QE = - Log_{10} (Physical\ channel\ BER)$$

[FDD - In case there is user data to be included in the DCH FP frame the QE shall be derived from the DPDCH Physical Channel BER.]

[FDD - When there is no user data to be included in the DCH FP frame the QE shall be derived from the DPCCH Physical Channel BER.]

[TDD – The QE shall be derived from the DPCH Physical Channel BER.]

The quality estimate is needed in order to select a transport block when all CRC indications are showing bad (or good) frame. The UL Outer Loop Power Control may also use the quality estimate.

Value range: {0-25.5}, granularity 0.1.

Field length: 8 bits