TSG-RAN Meeting #12 Stockholm, Sweden, 12 - 15 June 2001

RP-010358

Title: Agreed CR (Release 4) to TS 25.101

Source: TSG-RAN WG4

Agenda item: 8.4.4

WG4 doc	Status WG4	Spec	CR	Phase	Title	Cat	V old	V new
R4-010593	agreed	25.101	117	Rel-4	Correction of AICH performance	F	4.0.0	4.1.0

R4-010593

3GPP TSG RAN WG4 Meeting #17 Gothenburg, Sweden 21st - 25th May 2001

CHANGE REQUEST							CR-Form-v4	
*	25.101	CR 117	ж	ev _	¥	Current vers	ion: 4.0.0	æ
For <u>HELP</u> on u	sing this for	rm, see bottoi	m of this pag	ge or lool	k at th	e pop-up text	over the # sy	ymbols.
Proposed change affects: (U)SIM						Network		
Title: Ж	Correction	n of AICH per	formance					
Source: #	RAN WG	4						
Work item code: 第	TEI4					Date: ₩	2001-05-15	j
Category:	F (con A (con B (add C (fun D (edi Detailed exp	the following carection) responds to a dition of feature ctional modificatorial modificatolanations of the 3GPP TR 21.9	correction in a e), ation of featu ion) ne above cate	re)		2 R96 R97 R98 R99 REL-4	REL-4 the following re (GSM Phase 2 (Release 1996 (Release 1997 (Release 1998 (Release 1999 (Release 4) (Release 5)	2) 3) 7) 3)
Reason for change: When evaluating the performance, there were errors in the simulation results. The resulting error performance was better than the theoretical performance.								
Summary of change: # Change the AICH power offset in the testcase								
Consequences if not approved:	₩ Mucl	h less implem	entation ma	argin thar	agre	ed is allowed.		
Clauses affected:	第 8.13	.1						
Other specs affected:	Te	ther core spe est specificati &M Specifica	ons	*				
Other comments:	*							

How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked \$\mathbb{H}\$ 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 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.

8.13 Detection of Acquisition Indicator (AI)

The receiver characteristics of Acquisition Indicator (AI) are determined by the probability of false alarm Pfa and probability of correct detection Pd. Pfa is defined as a conditional probability of detection of AI signature given that a AI signature was not transmitted. Pd is defined as a conditional probability of correct detection of AI signature given that the AI signature is transmitted.

8.13.1 Minimum requirement

For the parameters specified in Table 8.44 the Pfa and 1-Pd shall not the exceed the specified values in Table 8.45. Power of downlink channels other than AICH is as defined in Table C.3 of Annex C.

Parameter Unit Test 1 Phase reference P-CPICH I_{oc} dBm/3.84 MHz -60 Number of other transmitted AI 0 signatures on AICH \hat{I}_{or}/I_{oc} dB -1 AICH_Ec/lor dΒ -2<mark>2</mark>3.0 AICH Power Offset dΒ -1<u>2</u>3.0 Propagation Static condition

Table 8.44: Parameters for Al detection

Note that AICH_Ec/Ior can not be set. Its value is calculated from other parameters and it is given for information only. (AICH_Ec/Ior = AICH Power Offset + CPICH_Ec/Ior)

Table 8.45: Test requirements for AI detection

Test Number	Pfa	1-Pd
1	0.01	0.01