TSG RAN Meeting #27 RP-050096

Tokyo, Japan, 9 - 11 March 2005

Title CR (Rel-6 Category B) to TS25.214 for Faster L1 DCH synchronization

Source TSG RAN WG1

Agenda Item 9.8

RAN1 Tdoc	Spec	CR	Rev	Rel	Cat	Current Version	Subject	Work item	Remarks
R1-050173	25.214	355	2	Rel-6	В	6.4.0	Faster L1 DCH synchronization	111-16	Linked CRs from WG2 and WG4 not available yet.

3GPP TSG-RAN WG1 Meeting #40 Scottsdale, AZ, USA, 14–18 February 2005

CHANGE REQUEST									
*	TS	25.214	CR 355	#	rev 💈	2 %	Current vers	6.4.0) [#]
For <u>HELF</u>	on usi	ng this fo	rm, see botto	m of this pa	age or loc	k at tl	ne pop-up text	over the 光 s	ymbols.
Proposed change affects: UICC apps# ME X Radio Access Network X Core Network									
Title:	Ж	Faster L1	DCH synchr	onization					
Source:	H	RAN WG	1						
Work item co	ode: 🖁 🧧	TEI6					<i>Date:</i> ∺	07/02/2005	
Category:	С	Jse <u>one</u> of F (co A (co release B (ac C (fu D (ec	the following c rrection) orresponds to a e) Idition of featur nctional modifical ditorial modifical planations of the 3GPP TR 21.5	a correction re), cation of fea ation) ne above ca	ature)		Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-6 the following re (GSM Phase 2) (Release 1999) (Release 1999) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	2) 6) 7) 8)
Reason for c	hange:		any cases L1 CH quality ch		chronizatio	on is u	innecessarily o	delayed by a	40ms DL
Summary of	change	omit oper	ted, but a 40r	ms post-ve oice wheth	rification p ner or not	eriod to use	nere the 40ms is introduced the 40ms DL UTRAN.	to ensure sta	ble system
Consequence not approved			any cases L1 CH quality ch		chronization	on is u	innecessarily o	delayed by a	40ms DL
Clauses affe	cted:	第 5.1.2	2.2.1.1						
Other specs affected:		X X	Other core Test specif O&M Spec	ications	ons ₩	25.	331, 25.101		
Other commo	ents:	\mathbb{H}							

How to create CRs using this form:

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{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.

5.1.2.2.1.1 Out of synchronisation handling

After 160 ms after physical channel establishment (defined in [5]), the UE shall control its transmitter according to a downlink DPCCH quality criterion as follows:

- The UE shall shut its transmitter off when the UE estimates the DPCCH quality over the last 160 ms period to be worse than a threshold Q_{out}. Q_{out} is defined implicitly by the relevant tests in [7].
- The UE can turn its transmitter on again when the UE estimates the DPCCH quality over the last 160 ms period to be better than a threshold Q_{in} . Q_{in} is defined implicitly by the relevant tests in [7]. When transmission is resumed, the power of the DPCCH shall be the same as when the UE transmitter was shut off.

If higher layers indicate the usage of a post-verification period, the UE shall control its transmitter according to a downlink DPCCH quality criterion as follows:

- When the UE estimates the DPCCH quality over the first 40 ms period of the first phase of the downlink synchronisation status evaluation to be worse than a threshold Q_{out}, the UE shall shut its transmitter off and the UE physical layer shall report post-verification failure to the higher layers. Q_{out} is defined implicitly by the relevant tests in [7].