TSG RAN Meeting #14

RP-010780

Kyoto, Japan, 11 - 14 December 2001

Title: CRs (R'99 and Rel-4 Category A) to TS 25.105

Source: TSG RAN WG4

Agenda Item: 8.4.3

RAN4 Tdoc	Spec	CR	Title	Cat	Phase	Curr Ver	New Ver
R4-011449	25.105	86	Table label correction from BLER Required Eb/No to BLER	F	Rel99	3.8.0	3.9.0
R4-011495	25.105	87	Table label correction from BLER Required Eb/No to BLER	Α	Rel-4	4.2.0	4.3.0

3GPP TSG RAN WG4 Meeting #20

R4-011449

East Brunswick, NJ, USA 12th - 16th November 2001

										CR-Form-v4	
ж		25.105	CR <mark>86</mark>	ж	ev	-	ж	Current vers	sion:	3.8.0	ж
For <u>H</u>	ELP on us	sing this for	m, see bottom	of this pa	age oi	r look	at the	e pop-up text	t over i	the ¥ syr	nbols.
Proposed	d change a	affects: ೫	(U)SIM	ME/UI	E	Rad	io Ac	cess Networ	k X	Core Ne	etwork
Title:	ж	Table labe	el correction fro	m BLER	Requ	uired E	Eb/No	to BLER			
Source:	ж	RAN WG4	4								
Work iter	m code: ₩							<i>Date:</i>	12	Nov. 2001	1
Category	r: #	Use <u>one</u> of a F (corr A (corr B (add C (fund D (edial Detailed exp	the following cate rection) responds to a co lition of feature), ctional modification orial modification lanations of the 3GPP <u>TR 21.900</u>	rrection ir ion of feat n) above ca	ure)			Release: # Use <u>one</u> of 2 () R96 R97 R98 R99 REL-4 REL-5	the fol (GSM (Relea (Relea (Relea	lowing rele I Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4)	eases:
Reason f	or change	:	ing table label	is incorre	ect and	d nee	<mark>d to b</mark>	e corrected.			

Summary of change: #	Correct table label from: BLER Required E _b /N _{0 to} BLER
Consequences if 🛛 🕷	Incorrect table label will cause specification confusion.
not approved:	
	Isolated Impact Analysis:
	Correction to a function where the specification was:
	Containing some Contradictions
	Would not affect implementations behaving like indicated in the CR, would affect
	implementations supporting the corrected functionality otherwise.

Clauses affected:	¥ 8.2.1.1
Other specs affected:	# Other core specifications # Test specifications 0&M Specifications
Other comments:	₩

How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked # 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

Minimum requirement 8.2.1.1

For the parameters specified in Table 8.2 the BLER should not exceed the piece-wise linear BLER curve specified in Table 8.3. These requirements are applicable for TFCS size 16.

Parameters	Unit	Test 1	Test 2	Test 3	Test 4	
Number of DPCH _o		6	4	0	0	
$\underline{DPCH_o _ E_c}$	dB	-9	-9.5	0	0	
I _{or}						
l _{oc}	dBm/3.84 MHz -89					
Cell Parameter*			0,	,1		
DPCH Channelization	C(k,Q)	C(1,8)	C(1,4)	C(1,2)	C(1,2)	
Codes*			C(5,16)	C(9,16)		
DPCH _o Channelization	C(k,Q)	C(i,16) 3≤ i ≤8	C(i,16) 6≤ i ≤9	-	-	
Codes*						
Information Data Rate	kbps	12.2	64	144	384	
*Note: Refer to TS 2	*Note: Refer to TS 25.223 for definition of channelization codes and cell parameter.					

Table 8.2: Parameters in static propagation conditions

Table 8.3: Performanc	requirements in AWGN channel.
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Test Number	$rac{\hat{I}_{or}}{I_{oc}}$ [dB]	BLER Required E₀/N₀
1	-2.0	10 ⁻²
2	-0.4	10 ⁻¹
	-0.1	10 ⁻²
3	-0.2	10 ⁻¹
	0.1	10 ⁻²
4	-0.8	10 ⁻¹
	-0.6	10 ⁻²

3GPP TSG RAN WG4 Meeting #20

R4-011495

East Brunswick, NJ, USA 12th - 16th November 2001

æ	25.105 CR 87 [#] ev _ [#] C	Current version: 4.2.0 [#]	f					
For <u>HELP</u> or	For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.							
Proposed chang	e affects: ೫ (U)SIM ME/UE Radio Acce	ess Network X Core Netw	/ork					
Title:	第 Table label correction from BLER Required Eb/No t	to BLER						
Source:	策 RAN WG4							
Work item code:	ж	Date:						
Category:	 A P B Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>. 	Release: # Rel-4 Use <u>one</u> of the following releas 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	ses:					
Reason for chan Summarv of cha	Reason for change: 業 Existing table labels are incorrect and need to be corrected.							

ourning of onunge. ••	
	• • • • • • • • • • • • • • • • • • • •
Consequences if #	Incompatible lebels will source an adjustice confusion
	Incorrect table labels will cause specification confusion.
not approved:	
	Isolated Impact Analysis:
	Correction to a function where the specification was:
	· · · · · · · · · · · · · · · · · · ·
	Containing some Contradictions
	Would not affect implementations behaving like indicated in the CR, would affect
	implementations supporting the corrected functionality otherwise.

Clauses affected:	¥ 8.2.1.1
Other specs affected:	# Other core specifications # Test specifications 0&M Specifications
Other comments:	₩

How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked # 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

8.2.1.1 Minimum requirement

8.2.1.1.1 3,84 Mcps TDD Option

For the parameters specified in Table 8.2 the BLER should not exceed the piece-wise linear BLER curve specified in Table 8.3. These requirements are applicable for TFCS size 16.

Parameters	Unit	Test 1	Test 2	Test 3	Test 4	
Number of DPCH₀		6	4	0	0	
$DPCH_o _ E_c$	dB	-9	-9.5	0	0	
I _{or}						
l _{oc}	dBm/3.84 MHz	dBm/3.84 MHz -89				
Cell Parameter*		0,1				
DPCH Channelization	C(k,Q)	C(1,8)	C(1,4)	C(1,2)	C(1,2)	
Codes*			C(5,16)	C(9,16)		
DPCH _o Channelization	C(k,Q)	C(i,16)	C(i,16)	-	-	
Codes*		3≤ i ≤8	6≤ i ≤9			
Information Data Rate	kbps	12.2	64	144	384	
*Note: Refer to TS 25.22	23 for definition of ch	nannelization coc	les and cell param	eter.		

Table 8.2: Parameters in static propagation conditions

Table 8.3: Performance requirements in AWGN channel.

Test Number	$rac{\hat{I}_{or}}{I_{oc}}$ [dB]	BLER Required E₀/N₀
1	-2.0	10 ⁻²
2	-0.4	10 ⁻¹
	-0.1	10 ⁻²
3	-0.2	10 ⁻¹
	0.1	10 ⁻²
4	-0.8	10 ⁻¹
	-0.6	10 ⁻²

8.2.1.1.2 1,28 Mcps TDD Option

For the parameters specified in Table8.2A the BLER should not exceed the piece-wise linear BLER curve specified in Table8.3A. These requirements are applicable for TFCS size 16.

Parameters	Unit	Test 1	Test 2	Test 3	Test 4
Number of DPCH _o		4	1	1	0
Spread factor of DPCH₀		8	8	8	-
$\frac{DPCH_o _ E_c}{I_{or}}$	dB	-7	-7	-7	0
l _{oc}	dBm/1.28MHz	-91			
Information Data Rate	Kbps	12.2	64	144	384

Test Number	$rac{\hat{I}_{or}}{I_{oc}}$ [dB]	BLER Required E_b/N₀
1	0.5	10 ⁻²
2	-1.1	10 ⁻¹
	-0.7	10 ⁻²
3	-0.5	10 ⁻¹
	-0.3	10 ⁻²
4	0.1	10 ⁻¹
	0.4	10 ⁻²

Table 8.3A: Performance requirements in AWGN channel.