3GPP TSG RAN Meeting #26 Vouliagmeni Athens, Greece, 8 - 10 December, 2004

RP-040408

Title CRs (Rel-5 and Rel-6 Category A) to TS25.133 under TEI

Source 3GPP TSG RAN WG4 (Radio)

Agenda Item 7.5.5

WG Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-040723	25.133	703		F	Rel-5	5.12.0	Target Quality on DTCH	TEI5
R4-040724	25.133	704		Α	Rel-6	6.7.0	Target Quality on DTCH	TEI5
R4-040726	25.133	705		F	Rel-5	5.12.0	Harmonisation of TS25.133 and TS34.108	TEI5
R4-040727	25.133	706		Α	Rel-6	6.7.0	Harmonisation of TS25.133 and TS34.108	TEI5

R4-040723

	CHANG	E REQUES	ST	CR-Form-v7.1
^第 <mark>25.133</mark>	CR 703	жrev	光 Current version	: 5.12.0
For <u>HELP</u> on u	sing this form, see bottom of the	his page or look a	t the pop-up text ove	er the 光 symbols.
Proposed change	affects: UICC apps器	ME X Radio	o Access Network	Core Network
Title: ∺	Deletion of Target quality value power	on DTCH: BLER=	0.01 in Clause A.9.1.3	3C UE transmitted
Source: #	3GPP TSG RAN WG4 (Radio	o)		
Work item code: ₩	TEI5		Date:	1/12/2004
Category: 第	F Use one of the following category F (correction) A (corresponds to a correct B (addition of feature), C (functional modification) D (editorial modification) Detailed explanations of the above be found in 3GPP TR 21.900.	tion in an earlier rele of feature)	Ph2 (GS) ease) R96 (Re) R97 (Re) R98 (Re) R99 (Re) Rel-4 (Re) Rel-5 (Re) Rel-6 (Re)	el-5 following releases: SM Phase 2) elease 1996) elease 1997) elease 1998) elease 1999) elease 4) elease 5) elease 5) elease 7)
Reason for change	When translated into a test expense of a moderate BLE be misunderstood by the U	ER at the UE receive	er. Hence the SS's por	wer up commands may
Summary of chang	ye:	controlled, it is cons	stant	
Consequences if not approved:	₩ When translated into a to covered by the test purpo		power is a stress fo	or the test, not
Clauses affected:	ж А.9.1.3C.1			
Other specs affected:	Y N X Other core specification X O&M Specificatio	s 3	34.121	
Other comments:	第 Isolated impact analysis Equivalent CRs in other			el-6

A.9.1.3C UE transmitted power

A.9.1.3C.1 Test Purpose and Environment

The purpose of this test is to verify that the UE transmitted power measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.6.

The test parameters are given in Table A.9.5C and A.9.5D below. In the measurement control information it shall be indicated to the UE that periodic reporting of the UE transmitted power measurement shall be used.

Table A.9.5C: General test parameters for UE transmitted power

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement	As specified in TS 25.101 section A.3.1
·		Channel 12.2 kbps	·
Power Control		On Off	
Target quality value on	BLER	0.01	
DTCH			

Table A.9.5D: Cell Specific parameters for UE transmitted power

Parameter	Unit	Cell 1					
CPICH_Ec/lor	dB	-10					
PCCPCH_Ec/lor	dB	-12					
SCH_Ec/lor	dB	-12					
PICH_Ec/lor	dB	-15					
DPCH_Ec/lor	dB	Note1-3					
OCNS	<u>dB</u>	Note 2-5.2					
\hat{I}_{or}/I_{oc}	dB	0					
I_{oc}	dBm/3.84 MHz	-70					
CPICH_Ec/lo	dB	-13					
Propagation Condition		AWGN					
Note 1: The DPCH level is controlled by the power control loop Note 2: The power of the OCNS channel that is added shall make the total nower from the cell to be equal to loop							

R4-040724

		CHAI	NGE REQ	UEST		1	CR-Form-v7.1
[#] 25.133		CR 704	жrev	**	Current vers	6.7.0	¥
For <u>HELP</u> on u	ısing this	form, see bottom	of this page or	look at the	e pop-up text	over the 光 sy	mbols.
Proposed change	affects:	UICC appsЖ	ME X	Radio Ad	ccess Netwoi	rk Core N	etwork
Title: ₩	Deletion power	of Target quality v	alue on DTCH: E	BLER=0.01	in Clause A.9	9.1.3C UE transi	mitted
Source: #	3GPP T	SG RAN WG4 (F	Radio)				
Work item code: ₩	TEI5				Date: ♯	01/12/2004	
Category: ₩	F (6 A (B (6 C (D (Detailed	of the following cate correction) corresponds to a condition of feature), functional modification editorial modification explanations of the in 3GPP TR 21.90	orrection in an ear tion of feature) on) above categories		Ph2	Rel-6 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	
Reason for change	exp	en translated into a tense of a moderate misunderstood by t	BLER at the UE	receiver. F	Hence the SS's	power up comr	nands may
Summary of chang	ge: # DL	power is not any n	nore controlled, it	t is constant	t		
Consequences if not approved:		nen translated into vered by the test p		ed DL pov	wer is a stres	s for the test, r	not
Clauses affected:	₩ A.	9.1.3C.1					
Other specs affected:	ж Х	N X Other core sp Test specific X O&M Specific	ations	¥ 34.1	21		
Other comments:		olated impact and quivalent CRs in o					

A.9.1.3C UE transmitted power

A.9.1.3C.1 Test Purpose and Environment

The purpose of this test is to verify that the UE transmitted power measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.6.

The test parameters are given in Table A.9.5C and A.9.5D below. In the measurement control information it shall be indicated to the UE that periodic reporting of the UE transmitted power measurement shall be used.

Table A.9.5C: General test parameters for UE transmitted power

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement	As specified in TS 25.101 section A.3.1
·		Channel 12.2 kbps	·
Power Control		On Off	
Target quality value on	BLER	0.01	
DTCH			

Table A.9.5D: Cell Specific parameters for UE transmitted power

Parameter	Unit	Cell 1					
CPICH_Ec/lor	dB	-10					
PCCPCH_Ec/lor	dB	-12					
SCH_Ec/lor	dB	-12					
PICH_Ec/lor	dB	-15					
DPCH_Ec/lor	dB	Note1-3					
OCNS	<u>dB</u>	Note 2-5.2					
\hat{I}_{or}/I_{oc}	dB	0					
I_{oc}	dBm/3.84 MHz	-70					
CPICH_Ec/lo	dB	-13					
Propagation		AWGN					
Condition		AWGN					
Note 1: The DPCH level is controlled by the power control loop							
Note 2: The power of the OCNS channel that is added shall make the total							
power from the cell to be equal to log							

R4-040726

		CHA	NGE R	EQU	EST			CR-Form-v7.1
[#] 25.133		CR 705	жr	ev	¥	Current vers	ion: 5.12.0	¥
For <u>HELP</u> on us	sing this i	form, see botto	om of this pag	ge or loo	k at the	e pop-up text	over the 光 s	ymbols.
Proposed change a	affects:	UICC apps#	N	1E <mark>X</mark> R	adio A	ccess Networ	k Core N	Network
Title: ₩	Harmoni	sation of TS 25	5.133 and TS	34.108				
Source: #	3GPP T	SG RAN WG4	(Radio)					
Work item code: ₩	TEI5					Date: ∺	01/12/2004	
Category: 第	Use <u>one</u> (C A (C B (E C (F D (E C (F C	of the following of orrection) corresponds to a addition of featur unctional modifical explanations of the 3GPP TR 21.	correction in a e), cation of featur tion) he above cate	re)		Ph2 R96 R97 R98 R99 Rel-4	Rel-5 the following re (GSM Phase 2) (Release 1990) (Release 1990) (Release 1990) (Release 4) (Release 5) (Release 6) (Release 7)	2) 3) 7) 3)
Reason for change	This	causes a confli	ct in TS 34.12	1, derivir	g the te	ests from both		
Summary of chang	re: # Test	parameters are	changed acco	rding to 'l	S 34.10	08		
Consequences if not approved:	₩ Con	flict for TS 34.1	21					
Clauses affected:	₩ A.	5.5.1						
Other specs affected:	₩ X	N Other core Test specif X O&M Spec		s ∺	34.1	21		
Other comments:		o <mark>lated impact a uivalent CRs i</mark>						

A.5.5 Cell Re-selection in CELL_FACH

A.5.5.1 One frequency present in neighbour list

A.5.5.1.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the cell re-selection delay in CELL_FACH state in the single carrier case reported in section 5.5.2.1.1. The test parameters are given in Table A.5.1 and A.5.2. The UE is requested to monitor neighbouring cells on 1 carrier. The maximum repetition period of the relevant system info

blocks that needs to be received by the UE to camp on a cell shall be 1280 ms

Table A.5.1 General test parameters for Cell Re-selection in CELL FACH

Parameter		Parameter Unit		Comment
initial	Active cell		Cell2	
condition	Neighbour cells		Cell1, Cell3,Cell4, Cell5, Cell6	
final condition	Active cell		Cell1	
Access Service Class (ASC#0) – Persistence value		-	1	Selected so that no additional delay is caused by the random access procedure. The value shall be used for all cells in the test.
HCS				Not used
T1		S	15	
T2	T2		15	

The transport and physical parameters of the S-CCPCH carrying the FACH are defined in Table A.5.1A and Table A.5.1B.

Table A.5.1A: Physical channel parameters for S-CCPCH.

Parameter	Unit	Level
Channel bit rate	kbps	60 120
Channel symbol rate	ksps	30 <u>60</u>
Slot Format #I	-	4 <u>8</u>
TFCI	-	OFF ON
Power offsets of TFCI and Pilot fields relative to data field	dB	0

Table A.5.1B: Transport channel parameters for S-CCPCH

Parameter	FACH
Transport Channel Number	4
Transport Block Size	240
Transport Block Set Size	240
Transmission Time Interval	10 ms
Type of Error Protection	Convolution Coding
Coding Rate	1/2
Rate Matching attribute	256
Size of CRC	16
Position of TrCH in radio frame	Fixed

Note: Transport channel parameters for S-CCPCH are taken from TS34.108 clause 6.1.0b (Content of System Information Block type 5 (FDD))

Table A.5.2 Cell specific test parameters for Cell Re-selection in CELL_FACH

Parameter	Unit	Ce	ell 1	Cel	Cell 2 Ce		II 3 Cell 4		II 4	I 4 Cell 5		Cell 6			
		T1	T2	T1	T2	T1	T1 T2		T2	T1	T2	T1	T2		
UTRA RF Channel		Channel 1		Channel 1		Chan	nel 1	Channel 1		Channel 1		Channel 1			
Number			10						10						
CPICH_Ec/lor	dB		10	-1	-	-1			10	-10			10		
PCCPCH_Ec/lor	dB		12		2	-1			12		12	-12			
SCH_Ec/lor	dB		12		2	-1			12		12		12		
PICH_Ec/lor	dB		15		5	-1	•		15		15		15		
S-CCPCH_Ec/lor	dB		12	-1		-1			2		12	-1			
OCNS_Ec/lor	dB		295	-1.2		-1.2			295		295	-1.2			
\hat{I}_{or}/I_{oc}	dB	7.3	10.27	10.27	7.3	0.2	27	0.:	27	0	.27	0.2	27		
I_{oc}	dBm/3.84 MHz						-7	0							
CPICH_Ec/lo	dB	-16	-13	-13	-16	-2	:3	-23		-	23	-2	23		
Propagation Condition								AWGN							
Cell_selection_and_ reselection_quality_ measure		CPIC	H E₀/N₀	CPICH E₀/N₀		CPI E⊲	-	CPICH	CPICH E ₀ /N ₀		CPICH E₀/N₀		CH N ₀		
Qqualmin	dB	-2	20	-2	-20 -20 -20 -20		-20		20	-2	20				
Qrxlevmin	dBm	-1	15	-11	15	-11	15	-115		-1	15	-1 ⁻	15		
UE_TXPWR_ MAX_RACH	dBm	2	21	2	1	2	1	21		21		2	1		
			C2: 0 C3: 0		C2, C1: 0				C2: 0	C6, C	C2: 0				
Qoffset 2 _{s, n}	dB		C4: 0	C2, C		C3, C		C4, 0			C3: 0	C6, 0			
								C4: 0	C6, C						
		C1,	C6: 0	C2, C	26: 0	C3, C	6: 0	C4, (C6: 0	C5,	C6: 0	C6, C	C5: 0		
Qhyst	dB	0		C)	0	1	()		0	C)		
Treselection	S		0	0		0	0		0 0 0		0		0	C)
Sintrasearch	dB	not	sent	not s	sent	not s	ent	not :	sent	not	sent	not s	sent		
IE "FACH Measurement occasion info"		not	sent	not s	sent	not sent not se		sent	not sent		not s	sent			

R4-040727

CHANGE REQUEST										
[#] 25.133		CR 706	жrev	*	Current vers	sion: 6.7.0	¥			
For <u>HELP</u> on us	sing this fo	rm, see bottom	of this page or	look at t	he pop-up text	over the 光 sy	/mbols.			
Proposed change a	affects:	UICC appsЖ	ME X	Radio	Access Netwo	rk Core N	letwork			
Title: ♯	Harmonisa	ation of TS 25.1	133 and TS34.1	08						
Source: #	3GPP TS	G RAN WG4 (F	Radio)							
Work item code: ₩	TEI5				Date: ∺	01/12/2004				
Category: 策	F (con A (con B (ad C (fur D (ed Detailed ex	dition of feature), actional modificat itorial modificatio	orrection in an eation of feature) n) above categorie		Ph2	Rel-6 the following re (GSM Phase 2 (Release 1996 (Release 1998 (Release 1999 (Release 4) (Release 5) (Release 6) (Release 7)	?) 5) 7) 8)			
Reason for change Summary of change	This c	auses a conflict	in TS 34.121, de	riving the	tests from both		108.			
Summary or chang	e. a Test p	arameters are en	langed according	10 15 54.	100					
Consequences if not approved:	器 Confl	ict for TS 34.121								
Clauses affected:	₩ A.5.	5.1								
Other specs affected:	¥ X X	Other core sp Test specifica O&M Specific	ations	34.	121					
Other comments:			alysis: No impac other Releases:							

A.5.5 Cell Re-selection in CELL FACH

A.5.5.1 One frequency present in neighbour list

A.5.5.1.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the cell re-selection delay in CELL_FACH state in the single carrier case reported in section 5.5.2.1.1. The test parameters are given in Table A.5.1 and A.5.2. The UE is requested to monitor

neighbouring cells on 1 carrier. The maximum repetition period of the relevant system info blocks that needs to be received by the UE to camp on a cell shall be 1280 ms

Table A.5.1 General test parameters for Cell Re-selection in CELL_FACH

Parameter		Unit	Value	Comment				
initial Active cell			Cell2					
condition	Neighbour cells		Cell1, Cell3,Cell4, Cell5, Cell6					
final condition	Active cell		Cell1					
Access Service Class (ASC#0) – Persistence value		-	1	Selected so that no additional delay is caused by the random access procedure. The value shall be used for all cells in the test.				
HCS				Not used				
T1		S	15					
T2		S	15					

The transport and physical parameters of the S-CCPCH carrying the FACH are defined in Table A.5.1A and Table A.5.1B.

Table A.5.1A: Physical channel parameters for S-CCPCH.

Parameter	Unit	Level
Channel bit rate	kbps	60 120
Channel symbol rate	ksps	30 <u>60</u>
Slot Format #I	-	4 <u>8</u>
TFCI	-	OFF ON
Power offsets of TFCI and Pilot fields relative to data field	dB	0

Table A.5.1B: Transport channel parameters for S-CCPCH

Parameter	FACH				
Transport Channel Number	4				
Transport Block Size	240				
Transport Block Set Size	240				
Transmission Time Interval	10 ms				
Type of Error Protection	Convolution Coding				
Coding Rate	1/2				
Rate Matching attribute	256				
Size of CRC	16				
Position of TrCH in radio frame	Fixed				

Note: Transport channel parameters for S-CCPCH are taken from TS34.108 clause 6.1.0b (Content of System Information Block type 5 (FDD))

Table A.5.2 Cell specific test parameters for Cell Re-selection in CELL_FACH

Parameter	Unit	Ce	ell 1	Cel	Cell 2		I 3	Ce	ell 4 Cell 5		ell 5	Cell 6		
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	
UTRA RF Channel		Channel 1		Channel 1		Chani	aal 1	Channel 1		Channel 1		Channel 1		
Number		Chamilei		• • • • • • • • • • • • • • • • • • • •						Chamile		Chamilei		
CPICH_Ec/lor	dB		10	-10		-10		-10		-10		-10		
PCCPCH_Ec/lor	dB		12	-12			-12		-12		-12		-12	
SCH_Ec/lor	dB		12	-1		-1		-12		-12		-12		
PICH_Ec/lor	dB		15	-1		-1		-15		-15		-15		
S-CCPCH_Ec/lor	dB		12	-1		-1:		-12		-12		-12		
OCNS_Ec/lor	dB		295	-1.2		-1.2			295	-1.295		-1.295		
\hat{I}_{or}/I_{oc}	dB	7.3	10.27	10.27	7.3	0.2	0.27		27	0.27		0.27		
I_{oc}	dBm/3.84 MHz		-70											
CPICH_Ec/Io	dB	-16	-13	-13	-16	-2	3	-	23	-	23	-2	-23	
Propagation Condition		AWGN												
Cell_selection_and_ reselection_quality_ measure		CPICH	H E₀/N₀	CPICH E ₀ /N ₀		CPI E₀/I	-	CPICH E₀/N₀		CPICH E₀/N₀		CPI E⊲		
Qqualmin	dB	-2	20	-2	0	-2	0	-20		-	20	-20		
Qrxlevmin	dBm	-1	15	-11	-115		5	-115		-1	-115		-115	
UE_TXPWR_ MAX_RACH	dBm		21		21			21		21		21		
		C1, C2: 0		C2, C1: 0		C3, C1: 0		C4, C1: 0		C5, C1: 0		C6, C1: 0		
Qoffset 2 _{s, n}	ID.		C1, C3: 0		C2, C3: 0		C3, C2: 0		C4, C2: 0		C5, C2: 0		C6, C2: 0	
	dB		C4: 0	C2, C4: 0		C3, C4: 0		C4, C3: 0		C5, C3: 0		C6, C3: 0		
		C1, C5: 0 C1, C6: 0		C2, C5: 0		C3, C5: 0 C3, C6: 0		C4, C5: 0		C5, C4: 0		C6, C4: 0		
Obvot	dB		0	C2, C6: 0					C5, C6: 0		C6, C5: 0			
Qhyst Treselection	+		0	0		0 0		•	0		0			
Sintrasearch	s dB		sent	ı		not s					•			
IE "FACH	uD	HOL	અના ા	not sent		HOL S	CIIL	HUL SEHL		not sent		not sent		
Measurement occasion info"		not	sent	not sent		not s	ent	not sent		not	not sent		not sent	