TSG RAN Meeting #19 Birmingham, United Kingdom, 11 - 14 March, 2003

CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.133 on "Correction of UE

parameters for Random Access test" (Linked to CR239 to TS34.121 in TP-

030045)

Source TSG RAN WG4

Agenda Item 8.4.3

Title

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-020278	25.133	548		F	R99	3.12.0	Correction of UE parameters for Random Access test	TEI
R4-020279	25.133	549		Α	Rel-4	4.7.0	Correction of UE parameters for Random Access test	TEI
R4-020280	25.133	550		Α	Rel-5	5.5.0	Correction of UE parameters for Random Access test	TEI
R4-020281	25.133	551		Α	Rel-6	6.0.0	Correction of UE parameters for Random Access test	TEI

RP-030031

R4-030278

Madrid, Spain 17 - 22 February, 2003

			CHA	ANGE	REQ	UE	ST			С	R-Form-v7
*	25	.133	CR 548	:	⊭rev		\mathfrak{H}	Current vers	ion: 3.	12.0	\mathbb{H}
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Clauses affected: # A.6.2

not approved:

can not be achieved successfully.

Other specs affected:	¥	Y N X Other core specifications X Test specifications O&M Specifications	34.121
Other comments:	¥	<u> </u>	R549 cat. A to 25.133 v4.7.0, CR550 cat. A 133 v6.0.0

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
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- 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.

A.6.2.1 Test Purpose and Environment

The purpose of these tests are to verify that the behaviour of the random access procedure is according to the requirements and that the PRACH power settings are within specified limits. This tests will verify the requirements in section 6.3.2.

Table A.6.5: RF Parameters for Random Access test

Parameter	Unit	Cell 1
UTRA RF Channel Number		Channel 1
CPICH_Ec/lor	dB	-10
PCCPCH_Ec/lor	dB	-12
SCH_Ec/lor	dB	-12
Number of other transmitted Acquisition Indicators	-	0
AICH_Ec/lor	dB	-10
PICH_Ec/lor	dB	-15
OCNS_Ec/lor when an AI is not transmitted	dB	-0.941
OCNS_Ec/lor when an AI is transmitted	dB	-1.516
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84 MHz	-70
CPICH_Ec/lo	dB	-13
Propagation Condition		AWGN

Table A.6.6: UE parameters for Random Access test

Parameter	Unit	Value
Access Service Class		
(ASC#0)		
	01	1
- Persistence value		
Maximum number of preamble		2
ramping cycles (M _{max}).		
Maximum number of		12
preambles in one preamble		
ramping cycle		
(Preamble Retrans Max)		
The backoff time T _{B01}	ms "***	N/A
N _{B01min=} N _{B01max}	#TTI	10
Power step when no	dB	3
acquisition indicator is	u.b	Ü
received		
(Power offset P0)		
Power offset between the last	dB	0
transmitted preamble and the		
control part of the message		
(Power offset P p-m)		
Maximum allowed UL TX	dBm	21 0
power		

Table A.6.7: UTRAN parameters for Random Access test

Parameter	Unit	Value
Primary CPICH DL TX power	dBm	-8
UL interference	dBm	-102
SIR in open loop power	dB	0
control (Constant value)		
AICH Power Offset	dB	0

A.6.2.2.1 Correct behaviour when receiving an ACK

The UE shall stop transmitting preambles upon a ACK on the AICH has been received and then transmit a message. An ACK shall be transmitted after 10 preambles have been received by the UTRAN.

The absolute power applied to the first preamble shall be -30 dBm with an accuracy as specified in section 6.4.1.1 of TS 25.101 [3]. The relative power applied to additional preambles shall have an accuracy as specified in section 6.5.2.1 of TS 25.101 [3].

The UE shall transmit 10 preambles and 1 message.

A.6.2.2.2 Correct behaviour when receiving an NACK

The UE shall stop transmitting preambles upon a NACK on the AICH has been received and then repeat the ramping procedure when the back off timer T_{B01} expires. The NACK shall be transmitted after the 10 preambles have been received by the UTRAN.

The UE shall transmit 10 preambles in the first ramping cycle and no transmission shall be done by the UE within 100 ms after the NACK has been transmitted by the UTRAN. Then the UE shall start the second preamble ramping cycle.

A.6.2.2.3 Correct behaviour at Time-out

The UE shall stop transmit preambles when reaching the maximum number of preambles allowed in a cycle. The UE shall then repeat the ramping procedure until the maximum number of preamble ramping cycles are reached. No ACK/NACK shall be sent by UTRAN during this test.

The UE shall transmit 2 preambles cycles, consisting of 12 preambles in each preamble cycle.

Table A.6.7A: Specific UE parameter for Correct behaviour at Time-out test

<u>Parameter</u>	<u>Unit</u>	<u>Value</u>
Maximum allowed UL TX	<u>dBm</u>	<u>21</u>
power		

A.6.2.2.4 Correct behaviour when reaching maximum transmit power

The UE shall not exceed the maximum allowed UL TX power configured by the UTRAN. No ACK/NACK shall be sent by UTRAN during this test.

R4-030279

Madrid, Spain 17 - 22 February, 2003									
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*	25	.133 CR ⁵⁴⁹	жr	ev	Ж	Current vers	sion:	4.7.0	¥
		this form, see bottom	_						
Proposed change	affec	<i>ts:</i> UICC apps器	M	E <mark>X</mark> Rad	dio Ad	ccess Netwo	rk	Core Ne	twork
Title:	€ Co	rrection of UE parame	eter for Rar	ndom Acc	ess t	est			
Source:	€ RA	N WG4							
						-	0 = /	1001000	
Work item code:	₹ IE					Date: ₩	05/	03/2003	
Category:	Deta	one of the following cate F (correction) A (corresponds to a co B (addition of feature), C (functional modification D (editorial modification illed explanations of the bund in 3GPP TR 21.900	orrection in a ion of feature n) above categ	e)	elease	Release: # Use <u>one</u> of 2 e) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	the for (GSM (Relea (Relea (Relea (Relea (Relea		eases:
D	00	NA	II TV			1 (· · · · 0 ID ·		M ID :: ':	(1 (.1.1.
Reason for chang	је: ж	Maximum allowed U A.6.6 (R4-021651, 2 behaviour in Time-o transmit power read preambles. Anyhow, table A.6.6 transmit power" tes follows: "The absol	25.133 CR: but" test cas ches the lim background applies al t case. The lute power	504). This se, becau nit before so for "Co test requ of any pre	s char se a send orrect irem eamb	nge was inte good UE ma ing prescribe t behaviour w ent in clause les belonging	nded by fail ed nur when r A.6.2 g to th	for "Corre the test w mber of reaching n 2.2.4 state ne first or s	ect hen naximum s as second

Summary of change: ₩

Value of Maximum allowed UL TX Power parameter in table A.6.6 is changed from 21 dBm to 0 dBm in table A.6.6. New table is added to clause A.6.2.2.3, where specific Maximum allowed UL TX Power value (21 dBm) for "Correct behaviour at Time-out" test case is proposed.

section 6.5." However, the absolute power of UE is not suppressed less than 0

dBm, since the Maximum allowed UE TX power is set to 21 dBm.

Isolated Impact Analysis:

This CR only corrects the value of UE parameter for Random Access test. Therefore, it does not have any impact on any other requirements or implementations.

Consequences if not approved:

X Test requirement of "Correct behaviour when reaching maximum transmit power" can not be achieved successfully.

Clauses affected: **光 A.6.2**

Other specs affected:	æ	X	Other core specifications # Test specifications C	34.121		
Other comments:	\mathbb{H}	# Equivalent CRs in other Releases: CR548 cat. F to 25.133 v3.12.0, CR550 cat. A to 25.133 v5.5.0, CR551 cat. A to 25.133 v6.0.0				

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A.6.2.1 Test Purpose and Environment

The purpose of these tests are to verify that the behaviour of the random access procedure is according to the requirements and that the PRACH power settings are within specified limits. This tests will verify the requirements in section 6.3.2.

Table A.6.5: RF Parameters for Random Access test

Parameter	Unit	Cell 1
UTRA RF Channel Number		Channel 1
CPICH_Ec/lor	dB	-10
PCCPCH_Ec/lor	dB	-12
SCH_Ec/lor	dB	-12
Number of other transmitted Acquisition Indicators	-	0
AICH_Ec/lor	dB	-10
PICH_Ec/lor	dB	-15
OCNS_Ec/lor when an AI is not transmitted	dB	-0.941
OCNS_Ec/lor when an Al is transmitted	dB	-1.516
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84 MHz	-70
CPICH_Ec/lo	dB	-13
Propagation Condition		AWGN

Table A.6.6: UE parameters for Random Access test

Parameter	Unit	Value
Access Service Class		
(ASC#0)		
	01	1
- Persistence value		
Maximum number of preamble		2
ramping cycles (M _{max}).		
Maximum number of		12
preambles in one preamble		
ramping cycle		
(Preamble Retrans Max)		
The backoff time T _{B01}	ms	N/A
N _{B01min=} N _{B01max}	#TTI	10
Power step when no	dB	3
acquisition indicator is		
received		
(Power offset P0)		
Power offset between the last	dB	0
transmitted preamble and the		
control part of the message		
(Power offset P p-m)		
Maximum allowed UL TX	dBm	21 0
power		

Table A.6.7: UTRAN parameters for Random Access test

Parameter	Unit	Value
Primary CPICH DL TX power	DBm	-8
UL interference	DBm	-102
SIR in open loop power	DB	0
control (Constant value)		
AICH Power Offset	DB	0

A.6.2.2.1 Correct behaviour when receiving an ACK

The UE shall stop transmitting preambles upon a ACK on the AICH has been received and then transmit a message. An ACK shall be transmitted after 10 preambles have been received by the UTRAN.

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The UE shall transmit 10 preambles and 1 message.

A.6.2.2.2 Correct behaviour when receiving an NACK

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A.6.2.2.3 Correct behaviour at Time-out

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The UE shall transmit 2 preambles cycles, consisting of 12 preambles in each preamble cycle.

Table A.6.7A: Specific UE parameter for Correct behaviour at Time-out test

<u>Parameter</u>	<u>Unit</u>	<u>Value</u>
Maximum allowed UL TX	<u>dBm</u>	<u>21</u>
power		

A.6.2.2.4 Correct behaviour when reaching maximum transmit power

The UE shall not exceed the maximum allowed UL TX power configured by the UTRAN. No ACK/NACK shall be sent by UTRAN during this test.

R4-030280

Madrid, Spain 17 - 22 February, 2003

	CHANGE REQUEST										
*	25.	133	CR	550	≋rev		¥	Current vers	sion:	5.5.0	#
For HELP on using this form, see bottom of this page or look at the pop-up text over the 策 symbols. Proposed change affects: UICC apps策 ME X Radio Access Network Core Network											
Title: ₩	Cor	rection	n of UI	E parameter f	or Randon	n Acc	ess t	est			
Source: #	RAN	N WG	4								
Work item code: ₩	TEI							Date: ₩	05/	/03/2003	
Category: \mathbb{R} Release: \mathbb{R} Rel-5Use one of the following categories:Use one of the following releases: F (correction)2 (GSM Phase 2) A (corresponds to a correction in an earlier release)R96 (Release 1996) B (addition of feature),R97 (Release 1997) C (functional modification of feature)R98 (Release 1998) D (editorial modification)R99 (Release 1999)Detailed explanations of the above categories can be found in 3GPP TR 21.900.Rel-4 (Release 4)Rel-5 (Release 5) Rel-6 (Release 6)))))				
Reason for change		A.6.6 beha trans prea Anyh trans follov prea secti dBm	6 (R4-Caviour in a capacitation of the capacit	allowed UL TX 021651, 25.13 in Time-out" to wer reaches ble A.6.6 app wer" test cas he absolute p cycle shall not "However, the the Maximur aximum allow im to 0 dBm in	33 CR504) est case, be the limit be blies also for e. The test bower of are t exceed 0 he absolute m allowed ved UL TX	This pecau efore "Cot requiry predem e powe	s char ise a send orrect irem- eamb with wer of X por	nge was inte good UE ma ing prescribe t behaviour v ent in clause les belonging more than the UE is not so wer is set to	nded by fail ed nu when A.6.2 g to the tole uppre 21 dE	for "Corn the test of mber of reaching 2.2.4 state he first or erance gir ssed less Bm.	maximum es as second ven in s than 0
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Other comments:	\mathbb{H}	Equivalent CRs in other Releases: CR548 cat. F to 25.133 v3.12.0, CR549 cat. A to 25.133 v4.7.0, CR551 cat. A to 25.133 v6.0.0					

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A.6.2.1 Test Purpose and Environment

The purpose of these tests are to verify that the behaviour of the random access procedure is according to the requirements and that the PRACH power settings are within specified limits. This tests will verify the requirements in section 6.3.2.

Table A.6.5: RF Parameters for Random Access test

Parameter	Unit	Cell 1
UTRA RF Channel Number		Channel 1
CPICH_Ec/lor	dB	-10
PCCPCH_Ec/lor	dB	-12
SCH_Ec/lor	dB	-12
Number of other transmitted Acquisition Indicators	-	0
AICH_Ec/lor	dB	-10
PICH_Ec/lor	dB	-15
OCNS_Ec/lor when an AI is not transmitted	dB	-0.941
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\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84 MHz	-70
CPICH_Ec/lo	dB	-13
Propagation Condition		AWGN

Table A.6.6: UE parameters for Random Access test

Parameter	Unit	Value
Access Service Class		
(ASC#0)		
	01	1
- Persistence value		
Maximum number of preamble		2
ramping cycles (M _{max}).		
Maximum number of		12
preambles in one preamble		
ramping cycle		
(Preamble Retrans Max)		
The backoff time T _{B01}	ms "***	N/A
N _{B01min=} N _{B01max}	#TTI	10
Power step when no	dB	3
acquisition indicator is	u.b	Ü
received		
(Power offset P0)		
Power offset between the last	dB	0
transmitted preamble and the		
control part of the message		
(Power offset P p-m)		
Maximum allowed UL TX	dBm	21 0
power		

Table A.6.7: UTRAN parameters for Random Access test

Parameter	Unit	Value
Primary CPICH DL TX power	dBm	-8
UL interference	dBm	-102
SIR in open loop power	dB	0
control (Constant value)		
AICH Power Offset	dB	0

A.6.2.2.1 Correct behaviour when receiving an ACK

The UE shall stop transmitting preambles upon a ACK on the AICH has been received and then transmit a message. An ACK shall be transmitted after 10 preambles have been received by the UTRAN.

The absolute power applied to the first preamble shall be -30 dBm with an accuracy as specified in section 6.4.1.1 of TS 25.101 [3]. The relative power applied to additional preambles shall have an accuracy as specified in section 6.5.2.1 of TS 25.101 [3].

The UE shall transmit 10 preambles and 1 message.

A.6.2.2.2 Correct behaviour when receiving an NACK

The UE shall stop transmitting preambles upon a NACK on the AICH has been received and then repeat the ramping procedure when the back off timer T_{B01} expires. The NACK shall be transmitted after the 10 preambles have been received by the UTRAN.

The UE shall transmit 10 preambles in the first ramping cycle and no transmission shall be done by the UE within 100 ms after the NACK has been transmitted by the UTRAN. Then the UE shall start the second preamble ramping cycle.

A.6.2.2.3 Correct behaviour at Time-out

The UE shall stop transmit preambles when reaching the maximum number of preambles allowed in a cycle. The UE shall then repeat the ramping procedure until the maximum number of preamble ramping cycles are reached. No ACK/NACK shall be sent by UTRAN during this test.

The UE shall transmit 2 preambles cycles, consisting of 12 preambles in each preamble cycle.

Table A.6.7A: Specific UE parameter for Correct behaviour at Time-out test

<u>Parameter</u>	<u>Unit</u>	<u>Value</u>
Maximum allowed UL TX	<u>dBm</u>	<u>21</u>
power		

A.6.2.2.4 Correct behaviour when reaching maximum transmit power

The UE shall not exceed the maximum allowed UL TX power configured by the UTRAN. No ACK/NACK shall be sent by UTRAN during this test.

R4-030281

Madrid, Spain 17 - 22 February, 2003

	CHANGE REQUEST									
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For <mark>HELP</mark> on u	sing t	this fori	m, see botto	om of this pa	ge or lo	ook at t	he pop-up text	t over	the ¥ syr	mbols.
Proposed change a	affec	<i>ts:</i> L	JICC apps≆	1	ME <mark>X</mark>	Radio	Access Netwo	rk	Core Ne	etwork
Title: %	Coi	rrection	of UE para	meter for Ra	andom	Access	test			
Source: #	RA	N WG4	1							
Work item code: ₩	TEI						Date: ₩	05/	/03/2003	
Category:	Use of	F (corred) A (corred) B (add) C (function D (edite) iled exp	responds to a ition of featur ctional modifica orial modifica	correction in e), cation of featution) he above cat	ıre)		2	the for (GSN) (Rele (Rele (Rele (Rele (Rele	I-6 bllowing rele A Phase 2) ease 1996) ease 1997) ease 1998) ease 1999) ease 4) ease 5)	eases:
Reason for change		A.6.6 behat trans prear Anyh trans follow prear section dBm,	(R4-02165 viour in Tim mit power re nbles. ow, table A. mit power" t vs: "The ab nble cycle s on 6.5." How since the M	1, 25.133 CI e-out" test ce eaches the li 6.6 applies a est case. The solute powe hall not exce vever, the all faximum allo	R504). ase, be mit before test of any eed 0 dosolute bowed U	This ch cause ore ser "Corre requirer pream Bm wit power E TX p	ged from 0 dBr ange was inte a good UE manding prescribe of behaviour verse in clause ables belonging the more than the of UE is not su	when A.6.2 g to the toler uppre	for "Corretthe test womber of reaching in 2.2.4 state the first or serance gives seed less Bm.	naximum s as second en in than 0
Value of Maximum allowed UL TX Power parameter in table A.6.6 is changed from 21 dBm to 0 dBm in table A.6.6. New table is added to clause A.6.2.2.3, where specific Maximum allowed UL TX Power value (21 dBm) for "Correct behaviour at Time-out" test case is proposed.						2.2.3,				
Consequences if not approved:	¥			of "Correct ved success		our whe	en reaching m	aximı	um transm	it power"
Clauses affected:	¥	A.6.2								
Other specs affected:	¥	Y N X X	Other core Test specif	specification	ns	34 .	.121			

X O&M Specifications

Other comments:

Equivalent CRs in other Releases: CR548 cat. F to 25.133 v3.12.0, CR549 cat. A to 25.133 v4.7.0, CR550 cat. A to 25.133 v5.5.0

How to create CRs using this form:

 \mathfrak{R}

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A.6.2.1 Test Purpose and Environment

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Table A.6.5: RF Parameters for Random Access test

Parameter	Unit	Cell 1
UTRA RF Channel Number		Channel 1
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PCCPCH_Ec/lor	dB	-12
SCH_Ec/lor	dB	-12
Number of other transmitted Acquisition Indicators	-	0
AICH_Ec/lor	dB	-10
PICH_Ec/lor	dB	-15
OCNS_Ec/lor when an Al is not transmitted	dB	-0.941
OCNS_Ec/lor when an Al is transmitted	dB	-1.516
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84 MHz	-70
CPICH_Ec/lo	dB	-13
Propagation Condition		AWGN

Table A.6.6: UE parameters for Random Access test

Parameter	Unit	Value
Access Service Class		
(ASC#0)		
	01	1
- Persistence value		
Maximum number of preamble		2
ramping cycles (M _{max}).		
Maximum number of		12
preambles in one preamble		
ramping cycle		
(Preamble Retrans Max)		
The backoff time T _{B01}	ms " TT !	N/A
N _{B01min=} N _{B01max}	#TTI	10
Power step when no	dB	3
acquisition indicator is	UD	0
received		
(Power offset P0)		
Power offset between the last	dB	0
transmitted preamble and the		
control part of the message		
(Power offset P p-m)		
Maximum allowed UL TX	dBm	21 0
power		

Table A.6.7: UTRAN parameters for Random Access test

Parameter	Unit	Value
Primary CPICH DL TX power	dBm	-8
UL interference	dBm	-102
SIR in open loop power	dB	0
control (Constant value)		
AICH Power Offset	dB	0

A.6.2.2.1 Correct behaviour when receiving an ACK

The UE shall stop transmitting preambles upon a ACK on the AICH has been received and then transmit a message. An ACK shall be transmitted after 10 preambles have been received by the UTRAN.

The absolute power applied to the first preamble shall be -30 dBm with an accuracy as specified in section 6.4.1.1 of TS 25.101 [3]. The relative power applied to additional preambles shall have an accuracy as specified in section 6.5.2.1 of TS 25.101 [3].

The UE shall transmit 10 preambles and 1 message.

A.6.2.2.2 Correct behaviour when receiving an NACK

The UE shall stop transmitting preambles upon a NACK on the AICH has been received and then repeat the ramping procedure when the back off timer T_{B01} expires. The NACK shall be transmitted after the 10 preambles have been received by the UTRAN.

The UE shall transmit 10 preambles in the first ramping cycle and no transmission shall be done by the UE within 100 ms after the NACK has been transmitted by the UTRAN. Then the UE shall start the second preamble ramping cycle.

A.6.2.2.3 Correct behaviour at Time-out

The UE shall stop transmit preambles when reaching the maximum number of preambles allowed in a cycle. The UE shall then repeat the ramping procedure until the maximum number of preamble ramping cycles are reached. No ACK/NACK shall be sent by UTRAN during this test.

The UE shall transmit 2 preambles cycles, consisting of 12 preambles in each preamble cycle.

Table A.6.7A: Specific UE parameter for Correct behaviour at Time-out test

<u>Parameter</u>	<u>Unit</u>	<u>Value</u>
Maximum allowed UL TX	<u>dBm</u>	<u>21</u>
power		

A.6.2.2.4 Correct behaviour when reaching maximum transmit power

The UE shall not exceed the maximum allowed UL TX power configured by the UTRAN. No ACK/NACK shall be sent by UTRAN during this test.