3GPP TSG RAN Meeting #26 **RP-040408**
Vouliagmeni Athens, Greece, 8 - 10 December, 2004

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		A	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		A	Rel-6	6.7.0	Harmonisation of TS25.133 and TS34.108	TEI5

3GPP TSG RAN WG4 (Radio) Meeting #33 **R4-040723**

Yokohama, Japan 15 - 19 November 2004

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.133** **CR** **703** ⌘**rev** ⌘ Current version: 5.12.0 ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Deletion of Target quality value on DTCH: BLER=0.01 in Clause A.9.1.3C UE transmitted power
Source:	⌘	3GPP TSG RAN WG4 (Radio)
Work item code:	⌘	TEI5
Date:	⌘	01/12/2004
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one 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 TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	When translated into a test ,BLER target = 0.01 minimizes the downlink power at the expense of a moderate BLER at the UE receiver. Hence the SS's power up commands may be misunderstood by the UE. This is a stress for the test, not covered by the test purpose.
Summary of change:	⌘	DL power is not any more controlled, it is constant
Consequences if not approved:	⌘	When translated into a test, minimized DL power is a stress for the test, not covered by the test purpose.

Clauses affected:	⌘	A.9.1.3C.1			
Other specs affected:	⌘	Y / N	Other core specifications	⌘	
		N: X	Other core specifications		
		Y: X	Test specifications		34.121
		N: X	O&M Specifications		
Other comments:	⌘	Isolated impact analysis: No impact on UE implementation. Equivalent CRs in other Releases: CR704 cat. A to 25.133 Rel-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 Channel 12.2 kbps	As specified in TS 25.101 section A.3.1
Power Control		~~On~~Off	
~~Target quality value on DTCH~~	~~BLER~~	~~0.01~~	

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

Parameter	Unit	Cell 1
CPICH_Ec/Ior	dB	-10
PCCPCH_Ec/Ior	dB	-12
SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
DPCH_Ec/Ior	dB	~~Note1~~-3
OCNS	dB	~~Note 2~~-5.2
$\hat{I}_{or}/I_{oc}$	dB	0
I_{oc}	dBm/3.84 MHz	-70
CPICH_Ec/Io	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 power from the cell to be equal to I_{or}.~~		

3GPP TSG RAN WG4 (Radio) Meeting #33 **R4-040724**

Yokohama, Japan 15 - 19 November 2004

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CHANGE REQUEST

⌘ **25.133** **CR** **704** ⌘**rev** ⌘ Current version: 6.7.0 ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Deletion of Target quality value on DTCH: BLER=0.01 in Clause A.9.1.3C UE transmitted power
Source:	⌘	3GPP TSG RAN WG4 (Radio)
Work item code:	⌘	TEI5
Date:	⌘	01/12/2004
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one 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 TR 21.900.

Use one of the following releases:
Ph2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*
Rel-7 *(Release 7)*

Reason for change:	⌘	When translated into a test ,BLER target = 0.01 minimizes the downlink power at the expense of a moderate BLER at the UE receiver. Hence the SS's power up commands may be misunderstood by the UE. This is a stress for the test, not covered by the test purpose.
Summary of change:	⌘	DL power is not any more controlled, it is constant
Consequences if not approved:	⌘	When translated into a test, minimized DL power is a stress for the test, not covered by the test purpose.

Clauses affected:	⌘	A.9.1.3C.1

Other specs affected: ⌘	Y	N		
		X	Other core specifications	⌘
	X		Test specifications	34.121
		X	O&M Specifications	

Other comments:	⌘	Isolated impact analysis: No impact on UE implementation. Equivalent CRs in other Releases: CR703 cat. F to 25.133 Rel-5

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 Channel 12.2 kbps	As specified in TS 25.101 section A.3.1
Power Control		~~On~~Off	
~~Target quality value on DTCH~~	~~BLER~~	~~0.01~~	

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

Parameter	Unit	Cell 1
CPICH_Ec/Ior	dB	-10
PCCPCH_Ec/Ior	dB	-12
SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
DPCH_Ec/Ior	dB	~~Note1~~-3
OCNS	dB	~~Note 2~~-5.2
$\hat{I}_{or}/I_{oc}$	dB	0
I_{oc}	dBm/3.84 MHz	-70
CPICH_Ec/Io	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 power from the cell to be equal to I_{or}.~~		

3GPP TSG RAN WG4 (Radio) Meeting #33 **R4-040726**

Yokohama, Japan 15 - 19 November 2004

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.133** **CR** **705** ⌘**rev** ⌘ Current version: 5.12.0 ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Harmonisation of TS 25.133 and TS34.108
Source:	⌘	3GPP TSG RAN WG4 (Radio)
Work item code:	⌘	TEI5
Date:	⌘	01/12/2004
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one 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 TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	Test parameters of secondary importance are different in TS 25.133 and TS 34.108. This causes a conflict in TS 34.121, deriving the tests from both specifications.
Summary of change:	⌘	Test parameters are changed according to TS 34.108
Consequences if not approved:	⌘	Conflict for TS 34.121

Clauses affected:	⌘	A.5.5.1

	Y	N			
Other specs affected:	⌘		X	Other core specifications	⌘ 34.121
		X		Test specifications	
			X	O&M Specifications	

Other comments:	⌘	Isolated impact analysis: No impact on UE implementation. Equivalent CRs in other Releases: CR706 cat. A to 25.133 Rel-6

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 condition	Active cell		Cell2	
	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~~60
Slot Format #I	-	~~4~~8
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~~	~~1~~
~~Transport Block Size~~	~~240~~
~~Transport Block Set Size~~	~~240~~
~~Transmission Time Interval~~	~~10 ms~~
~~Type of Error Protection~~	~~Convolution Coding~~
~~Coding Rate~~	~~½~~
~~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	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
UTRA RF Channel Number		Channel 1		Channel 1		Channel 1		Channel 1		Channel 1		Channel 1	
CPICH_Ec/Ior	dB	-10		-10		-10		-10		-10		-10	
PCCPCH_Ec/Ior	dB	-12		-12		-12		-12		-12		-12	
SCH_Ec/Ior	dB	-12		-12		-12		-12		-12		-12	
PICH_Ec/Ior	dB	-15		-15		-15		-15		-15		-15	
S-CCPCH_Ec/Ior	dB	-12		-12		-12		-12		-12		-12	
OCNS_Ec/Ior	dB	-1.295		-1.295		-1.295		-1.295		-1.295		-1.295	
$\hat{I}_{or}/I_{oc}$	dB	7.3	10.27	10.27	7.3	0.27		0.27		0.27		0.27	
I_{oc}	dBm/3.84 MHz	-70											
CPICH_Ec/Io	dB	-16	-13	-13	-16	-23		-23		-23		-23	
Propagation Condition		AWGN											
Cell_selection_and_reselection_quality_measure		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0	
Qqualmin	dB	-20		-20		-20		-20		-20		-20	
Qrxlevmin	dBm	-115		-115		-115		-115		-115		-115	
UE_TXPWR_MAX_RACH	dBm	21		21		21		21		21		21	
Qoffset $2_{s,n}$	dB	C1, C2: 0 C1, C3: 0 C1, C4: 0 C1, C5: 0 C1, C6: 0		C2, C1: 0 C2, C3: 0 C2, C4: 0 C2, C5: 0 C2, C6: 0		C3, C1: 0 C3, C2: 0 C3, C4: 0 C3, C5: 0 C3, C6: 0		C4, C1: 0 C4, C2: 0 C4, C3: 0 C4, C5: 0 C4, C6: 0		C5, C1: 0 C5, C2: 0 C5, C3: 0 C5, C4: 0 C5, C6: 0		C6, C1: 0 C6, C2: 0 C6, C3: 0 C6, C4: 0 C6, C5: 0	
Qhyst	dB	0		0		0		0		0		0	
Treselection	s	0		0		0		0		0		0	
Sintrasearch	dB	not sent		not sent		not sent		not sent		not sent		not sent	
IE “FACH Measurement occasion info”		not sent		not sent		not sent		not sent		not sent		not sent	

3GPP TSG RAN WG4 (Radio) Meeting #33 **R4-040727**

Yokohama, Japan 15 - 19 November 2004

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.133** **CR** **706** ⌘**rev** ⌘ Current version: 6.7.0 ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Harmonisation of TS 25.133 and TS34.108
Source:	⌘	3GPP TSG RAN WG4 (Radio)
Work item code:	⌘	TEI5
Date:	⌘	01/12/2004
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one 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 TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	Test parameters of secondary importance are different in TS 25.133 and TS 34.108. This causes a conflict in TS 34.121, deriving the tests from both specifications.
Summary of change:	⌘	Test parameters are changed according to TS 34.108
Consequences if not approved:	⌘	Conflict for TS 34.121

Clauses affected:	⌘	A.5.5.1

	Y	N			
Other specs affected:	⌘		X	Other core specifications	⌘
		X		Test specifications	34.121
			X	O&M Specifications	

Other comments:	⌘	Isolated impact analysis: No impact on UE implementation. Equivalent CRs in other Releases: CR705 cat. F to 25.133 Rel-5

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 condition	Active cell		Cell2	
	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~~60
Slot Format #I	-	~~4~~8
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~~	~~1~~
~~Transport Block Size~~	~~240~~
~~Transport Block Set Size~~	~~240~~
~~Transmission Time Interval~~	~~10 ms~~
~~Type of Error Protection~~	~~Convolution Coding~~
~~Coding Rate~~	~~½~~
~~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	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
UTRA RF Channel Number		Channel 1		Channel 1		Channel 1		Channel 1		Channel 1		Channel 1	
CPICH_Ec/Ior	dB	-10		-10		-10		-10		-10		-10	
PCCPCH_Ec/Ior	dB	-12		-12		-12		-12		-12		-12	
SCH_Ec/Ior	dB	-12		-12		-12		-12		-12		-12	
PICH_Ec/Ior	dB	-15		-15		-15		-15		-15		-15	
S-CCPCH_Ec/Ior	dB	-12		-12		-12		-12		-12		-12	
OCNS_Ec/Ior	dB	-1.295		-1.295		-1.295		-1.295		-1.295		-1.295	
$\hat{I}_{or}/I_{oc}$	dB	7.3	10.27	10.27	7.3	0.27		0.27		0.27		0.27	
I_{oc}	dBm/3.84 MHz	-70											
CPICH_Ec/Io	dB	-16	-13	-13	-16	-23		-23		-23		-23	
Propagation Condition		AWGN											
Cell_selection_and_reselection_quality_measure		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0		CPICH E_c/N_0	
Qqualmin	dB	-20		-20		-20		-20		-20		-20	
Qrxlevmin	dBm	-115		-115		-115		-115		-115		-115	
UE_TXPWR_MAX_RACH	dBm	21		21		21		21		21		21	
Qoffset $2_{s,n}$	dB	C1, C2: 0 C1, C3: 0 C1, C4: 0 C1, C5: 0 C1, C6: 0		C2, C1: 0 C2, C3: 0 C2, C4: 0 C2, C5: 0 C2, C6: 0		C3, C1: 0 C3, C2: 0 C3, C4: 0 C3, C5: 0 C3, C6: 0		C4, C1: 0 C4, C2: 0 C4, C3: 0 C4, C5: 0 C4, C6: 0		C5, C1: 0 C5, C2: 0 C5, C3: 0 C5, C4: 0 C5, C6: 0		C6, C1: 0 C6, C2: 0 C6, C3: 0 C6, C4: 0 C6, C5: 0	
Qhyst	dB	0		0		0		0		0		0	
Treselection	s	0		0		0		0		0		0	
Sintrasearch	dB	not sent		not sent		not sent		not sent		not sent		not sent	
IE “FACH Measurement occasion info”		not sent		not sent		not sent		not sent		not sent		not sent	