RP-040286

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

Source TSG RAN WG4

Agenda Item 7.5.5

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-040552	25.133	688	1	F	Rel-5	5.11.0	Removal of square brackets from requirements for number of reporting criteria for traffic volume measurements in cell_FACH state	TEI5
R4-040553	25.133	689	1	A	Rel-6	6.6.0	Removal of square brackets from requirements for number of reporting criteria for traffic volume measurements in cell_FACH state	TEI5
R4-040561	25.133	691	1	F	Rel-5	5.11.0	FDD/FDD Hard Handover test case clarification	TEI5
R4-040562	25.133	692	1	Α	Rel-6	6.6.0	FDD/FDD Hard Handover test case clarification	TEI5

3GPP TSG RAN WG4 (Radio) Meeting #32

Prague, Czech Republic 16 - 20 August 2004

CHANGE REQUEST # 25.133 CR 688 # rev 1 # Current version: 5.11.0

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

Proposed chang	je a	ffects: UICC apps第 <mark> ME X</mark> Radio /	Acces	ss Networ	k X Core Network
Title:	\mathfrak{H}	Removal of square brackets from requirements traffic volume measurements in cell FACH state		umber of	reporting criteria for
		traine volume measurements in ceil_i Aori state	C		
Source:	\mathfrak{R}	RAN WG4			
Work item code:	: #	TEI5		Date: ₩	30/08/2004
Category:	\mathbb{H}	F 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)	Ĺ	Use <u>one</u> of t Ph2 R96 R97 R98	Rel-5 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Rel-4 Rel-5 Rel-6	(Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)

Clauses affected: # 8.5.2

Other specs affected:	Y N X Other core specifications 策 Test specifications O&M Specifications
Other comments:	Equivalent CRs in other Releases: CR689r1 cat. A to 25.133 Rel-6

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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.

8.5.2 Requirements

In this section reporting criteria can be either event triggered reporting criteria or periodic reporting criteria.

Table 8.15: Requirements for reporting criteria per measurement category

Measurement category	E _{cat}	Note
Traffic volume measurements	[] 2	

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D (editorial modification)

be found in 3GPP TR 21.900.

Detailed explanations of the above categories can

CHANGE REQUEST									
*	25.133	CR <mark>689</mark>	⊭rev	1 **	Current vers	ion: 6.6.0	¥		
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		dition of feature),	Jouon III air Gai	noi roioase		(Release 1997)			
	C (fui	nctional modificatior	of feature)		R98	(Release 1998)			

R99

Rel-4

Rel-5

Rel-6

Rel-7

(Release 1999)

(Release 4)

(Release 5) (Release 6)

(Release 7)

Reason for change: ₩	Currently there is no requirements for how many reporting criteria the UE should support for traffic volume measurement in CELL_FACH state
Summary of change: ₩	It is defined that the UE has to support 2 reporting criteria for traffic volume measurements in CELL_FACH state Isolated Impact Analyses: Since currently there is not a requirement for the number of traffic volume reporting criteria that a UE has to support, some there may be different assumptions in a UE and a network. Hence, the CR may have an impact either on network or UE implementation
Consequences if	Maximum number of reporting criteria for traffic volume measurements in cell_FACH state is not defined. This may cause interoperability problems between a UE and network.

affected:	X Test specifications O&M Specifications
Other comments:	# Equivalent CRs in other Releases: CR688r1 cat. F to 25.133 Rel-5

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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.

8.5.2 Requirements

In this section reporting criteria can be either event triggered reporting criteria or periodic reporting criteria.

Table 8.15: Requirements for reporting criteria per measurement category

Measurement category	E _{cat}	Note		
Traffic volume measurements	<u> 1 2</u>			

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Other comments: # This CR is applicable for UE's supporting Rel-5 or later.

Equivalent CRs in other Releases: CR692r1 cat. A to 25.133 v6.6.0

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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.5.2 FDD/FDD Hard Handover

A.5.2.1 Handover to intra-frequency cell

A.5.2.1.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the hard handover delay in CELL_DCH state in the single carrier case reported in section 5.2.2.1.

The test parameters are given in Table A.5.0 and A.5.0A below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 1B shall be used, and that CPICH Ec/Io and SFN-CFN observed timed difference shall be reported together with Event 1A. The test consists of three successive time periods, with a time duration of T1, T2 and T3 respectively. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with a new active cell, cell 2. The Physical Channel reconfiguration message shall be sent to the UE_-,so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3.in during period T2, after the UE has reported event 1A. The RRC procedure delay is defined [16]. T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0: General test parameters for Handover to intra-frequency cell

Par	ameter	Unit	Value	Comment		
DCH parameters			DL and UL Reference	As specified in TS 25.101 section		
-			Measurement Channel 12.2 kbps	A.3.1 and A.2.1		
Power Control			On			
Target quality va	alue on DTCH	BLER	0.01			
Initial	Active cell		Cell 1			
conditions	Neighbouring cell		Cell 2			
Final condition	Active cell		Cell 2			
Reporting range)	dB	3	Applicable for event 1A and 1B		
Hysteresis		dB	0			
W			1	Applicable for event 1A and 1B		
Reporting deact	ivation threshold		0	Applicable for event 1A		
Time to Trigger		ms	0			
Filter coefficient			0			
T1		S	5			
T2	•	S	<u>≤</u> 5			
T3		S	5			

Table A.5.0A: Cell specific test parameters for Handover to intra-frequency cell

Unit		Cell 1		Cell 2					
	T1	T2	T3	T1	T2	T3			
dB		-10			-10				
dB		-12			-12				
dB		-12			-12				
dB		-15		-15					
dB	Note1	Note1	Note3	N/A	N/A No				
	Note2	Note2	Note2	-0.941	-0.941	Note2			
dB	0	6.9	97	-Infinity 5.97					
dBm/3.84 MHz			-	70					
dB	-13 -Infinity -14								
	AWGN								
	dB dB dB dB dB dB dB MHz	T1 dB dB dB dB dB Note1 Note2 dB 0 dBm/3.84 MHz MHz MHz MT1 MT1 MT2 MT1 MT1	T1 T2 dB -10 dB -12 dB -15 dB Note1 Note1 Note2 Note2 Note2 dBm/3.84 MHz MHz	T1 T2 T3 dB -10 -10 -10 -12 -12 -12 -12 -15 -15 -15 -15 -15 -15 -15 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -13 <	T1 T2 T3 T1 dB -10	T1 T2 T3 T1 T2 dB -10 -10 -10 -10 -10 -10 -10 -10 -10 -12 -12 -12 -12 -12 -12 -12 -12 -15 -10			

Note 2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to $I_{
m or}$

Note 3: The DPCH may not be power controlled by the power control loop.

A.5.2.1.2 **Test Requirements**

The UE shall start to transmit the UL DPCCH to Cell 2 less than 19010 ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.

A.5.2.2 Handover to inter-frequency cell

A.5.2.2.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the inter frequency hard handover delay in CELL_DCH state as specified in section 5.2.2.1.

The test consists of three successive time periods, with a time duration T1, T2 and T3. The test parameters are given in tables A.5.0B and A.5.0C below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 2C shall be used. The CPICH Ec/I0 of the best cell on the unused frequency shall be reported together with Event 2C reporting. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with one active cell, cell 2.

The Physical Channel reconfiguration message shall be sent to the UE during period T2, after the UE has reported event 2C. so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3. The RRC procedure delay is defined [16]. T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0B: General test parameters for Handover to inter-frequency cell

Parameter		Unit	Value	Comment			
DCH parameters			DL and UL Reference	As specified in TS 25.101 section			
			Measurement Channel 12.2 kbps	A.3.1 and A.2.1			
Power Control			On				
Target quality val	ue on DTCH	BLER	0.01				
Compressed mod	le		A.22 set 1	As specified in TS 25.101 section A.5.			
Initial conditions	I conditions Active cell		Cell 1				
	Neighbour cell		Cell 2				
Final conditions	Active cell		Cell 2				
Threshold non us	Threshold non used frequency		eshold non used frequency		-18	Absolute Ec/I0 threshold for event 2C	
Reporting range		dB	4	Applicable for event 1A			
Hysteresis		dB	0				
W			1	Applicable for event 1A			
W non-used frequ	iency		1	Applicable for event 2C			
Reporting deactive	ation threshold		0	Applicable for event 1A			
Time to Trigger		ms	0				
Filter coefficient			0				
T1		S	5				
T2		S	<u>≤</u> 10				
T3		S	5				

Table A.5.0C: Cell Specific parameters for Handover to inter-frequency cell

Parameter	Unit		Cell 1		Cell 2			
		T1	T2	Т3	T1	T2	Т3	
UTRA RF Channel Number			Channel 1		Channel 2			
CPICH_Ec/lor	dB		-10			-10		
PCCPCH_Ec/lor	dB		-12			-12		
SCH_Ec/lor	dB		-12		-12			
PICH_Ec/lor	dB		-15		-15			
DPCH_Ec/lor	dB	Note 1	Note 1	Note3	N/A	N/A	Note 1	
OCNS			Note 2		-0.941	-0.941	Note 2	
\hat{I}_{or}/I_{oc}	dB		0		-Infinity	-1.8	-1.8	
I_{oc}	dBm/3.84 MHz	-70						
CPICH_Ec/lo	dB	-13			-Infinity	-14	-14	
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}

Note 3: The DPCH may not be power controlled by the power control loop.

A.5.2.2.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 220140 ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.

3GPP TSG RAN WG4 (Radio) Meeting #32

Prague, Czech Republic 16 - 20 August 2004

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Other comments: # This CR is applicable for UE's supporting Rel-5 or later.

Equivalent CRs in other Releases: CR691r1 cat. F to 25.133 v5.11.0

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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.5.2 FDD/FDD Hard Handover

A.5.2.1 Handover to intra-frequency cell

A.5.2.1.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the hard handover delay in CELL_DCH state in the single carrier case reported in section 5.2.2.1.

The test parameters are given in Table A.5.0 and A.5.0A below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 1B shall be used, and that CPICH Ec/Io and SFN-CFN observed timed difference shall be reported together with Event 1A. The test consists of three successive time periods, with a time duration of T1, T2 and T3 respectively. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with a new active cell, cell 2. The Physical Channel reconfiguration message shall be sent to the UE_-,so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3.in during period T2, after the UE has reported event 1A. The RRC procedure delay is defined [16]. T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0: General test parameters for Handover to intra-frequency cell

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference	As specified in TS 25.101 section
			Measurement Channel 12.2 kbps	A.3.1 and A.2.1
Power Control			On	
Target quality va	alue on DTCH	BLER	0.01	
Initial	Active cell		Cell 1	
conditions	Neighbouring cell		Cell 2	
Final condition	Active cell		Cell 2	
Reporting range	Reporting range		3	Applicable for event 1A and 1B
Hysteresis			0	
W	W		1	Applicable for event 1A and 1B
Reporting deact	Reporting deactivation threshold		0	Applicable for event 1A
Time to Trigger	Time to Trigger		0	
Filter coefficient			0	
T1		S	5	
T2		S	<u>≤</u> 5	
T3		S	5	

Table A.5.0A: Cell specific test parameters for Handover to intra-frequency cell

Unit		Cell 1		Cell 2				
	T1	T2	T3	T1	T2	T3		
dB		-10			-10			
dB		-12			-12			
dB		-12			-12			
dB		-15			-15			
dB	Note1	Note1 Note3		N/A	N/A	Note1		
	Note2	Note2	Note2	-0.941	-0.941	Note2		
dB	0	6.9	97	-Infinity	5.9	97		
dBm/3.84 MHz			-	70				
dB		-13 -Infinity -14						
			AV	VGN				
	dB dB dB dB dB dB dB MHz	T1 dB dB dB dB dB Note1 Note2 dB 0 dBm/3.84 MHz MHz MHz MT1 MT1 MT2 MT1 MT1	T1 T2 dB -10 dB -12 dB -15 dB Note1 Note1 Note2 Note2 Note2 dBm/3.84 MHz MHz	T1 T2 T3 dB -10 -10 -10 -12 -12 -12 -12 -15 -15 -15 -15 -15 -15 -15 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12 -13 <	T1 T2 T3 T1 dB -10	T1 T2 T3 T1 T2 dB -10 -10 -10 -10 -10 -10 -10 -10 -10 -12 -12 -12 -12 -12 -12 -12 -12 -15 -10		

Note 2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to $I_{
m or}$

Note 3: The DPCH may not be power controlled by the power control loop.

A.5.2.1.2 **Test Requirements**

The UE shall start to transmit the UL DPCCH to Cell 2 less than 19010 ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.

A.5.2.2 Handover to inter-frequency cell

A.5.2.2.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the inter frequency hard handover delay in CELL_DCH state as specified in section 5.2.2.1.

The test consists of three successive time periods, with a time duration T1, T2 and T3. The test parameters are given in tables A.5.0B and A.5.0C below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 2C shall be used. The CPICH Ec/I0 of the best cell on the unused frequency shall be reported together with Event 2C reporting. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with one active cell, cell 2.

The Physical Channel reconfiguration message shall be sent to the UE during period T2, after the UE has reported event 2C. so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3. The RRC procedure delay is defined [16]. T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0B: General test parameters for Handover to inter-frequency cell

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference	As specified in TS 25.101 section
			Measurement Channel 12.2 kbps	A.3.1 and A.2.1
Power Control			On	
Target quality val	ue on DTCH	BLER	0.01	
Compressed mod	le		A.22 set 1	As specified in TS 25.101 section A.5.
Initial conditions	Active cell		Cell 1	
	Neighbour cell		Cell 2	
Final conditions	Active cell		Cell 2	
Threshold non us	Threshold non used frequency		-18	Absolute Ec/I0 threshold for event 2C
Reporting range		dB	4	Applicable for event 1A
Hysteresis			0	
W			1	Applicable for event 1A
W non-used frequ	on-used frequency		1	Applicable for event 2C
Reporting deactiv	orting deactivation threshold		0	Applicable for event 1A
Time to Trigger		ms	0	
Filter coefficient			0	
T1		S	5	
T2	s		<u>≤</u> 10	
T3		S	5	

Table A.5.0C: Cell Specific parameters for Handover to inter-frequency cell

Parameter	Unit		Cell 1		Cell 2			
		T1	T2	Т3	T1	T2	Т3	
UTRA RF Channel Number			Channel 1		Channel 2			
CPICH_Ec/lor	dB		-10			-10		
PCCPCH_Ec/lor	dB		-12			-12		
SCH_Ec/lor	dB		-12		-12			
PICH_Ec/lor	dB		-15		-15			
DPCH_Ec/lor	dB	Note 1	Note 1	Note3	N/A	N/A	Note 1	
OCNS			Note 2		-0.941	-0.941	Note 2	
\hat{I}_{or}/I_{oc}	dB		0		-Infinity	-1.8	-1.8	
I_{oc}	dBm/3.84 MHz	-70						
CPICH_Ec/lo	dB	-13			-Infinity	-14	-14	
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}

Note 3: The DPCH may not be power controlled by the power control loop.

A.5.2.2.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 220140 ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.