

3GPP TSG RAN Meeting #28
Quebec, Canada, 1 - 3 June 2005

RP-050215

Title CRs (Rel-5 & Rel-6) to 25.101 & 25.133 for the removal of Compressed mode by puncturing
Source 3GPP TSG RAN WG4 (Radio)
Agenda Item 7.7.8

WG Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-050407	25.101	418		C	Rel-5	5.14.0	Feature Clean Up: Removal of Compressed mode by puncturing	TEI5
R4-050408	25.101	419		C	Rel-6	6.7.0	Feature Clean Up: Removal of Compressed mode by puncturing	TEI6
R4-050411	25.133	750		C	Rel-5	5.14.0	Feature Clean Up: Removal of Compressed mode by puncturing	TEI5
R4-050412	25.133	751		C	Rel-6	6.9.0	Feature Clean Up: Removal of Compressed mode by puncturing	TEI6

Athens, Greece 9 - 13 May 2005

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CHANGE REQUEST

⌘ **25.101 CR 418** ⌘ rev ⌘ Current version: **5.14.0** ⌘

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Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Feature Clean Up: Removal of Compressed mode by puncturing		
Source:	⌘ 3GPP TSG RAN WG4 (Radio)		
Work item code:	⌘ TEI5	Date:	⌘ 16/05/2005
Category:	⌘ C	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> 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:	⌘ RAN#27 decision on Feature Clean-up		
Summary of change:	⌘ Removal of reference to compressed mode by puncturing and associated performance requirements		
	Isolated Impact Analysis		
	Functionality removed: Compressed Mode by puncturing		
	Isolated impact statement: Since functionality is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.		
Consequences if not approved:	⌘ Introduction of new features and evolution of the existing feature remain slow also in the future.		

Clauses affected:	⌘ 8.8, A.5										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table>	Y	N	X		X			X	Other core specifications	⌘ 25.211,25.212,25.214,25.215, 25.331, 25.423, 25.433, 25.133 34.121
Y	N										
X											
X											
	X										
		Test specifications									
		O&M Specifications									
Other comments:	⌘										

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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.

8.9 Downlink compressed mode

Downlink compressed mode is used to create gaps in the downlink transmission, to allow the UE to make measurements on other frequencies.

8.9.1 Single link performance

The receiver single link performance of the Dedicated Traffic Channel (DCH) in compressed mode is determined by the Block Error Ratio (BLER) and transmitted DPCH_{Ec}/I_{or} power ratio in the downlink.

The compressed mode parameters are given in clause A.5. Tests 1 and 2 are using Set 1 compressed mode pattern parameters from Table A.21 in clause A.5 ~~while tests 3 and 4 are using Set 2 compressed mode patterns from the same table.~~

8.9.1.1 Minimum requirements

For the parameters specified in Table 8.35 the downlink $\frac{DPCH_{Ec}}{I_{or}}$ power ratio measured values, which are averaged over one slot, shall be below the specified value in Table 8.36 more than 90% of the time. The measured quality on DTCH shall be as required in Table 8.36.

Downlink power control is ON during the test. Uplink TPC commands shall be error free.

Table 8.35: Test parameter for downlink compressed mode

Parameter	Unit	Test 1	Test 2	Test 3	Test 4
Delta SIR1	dB	0	3	0	3
Delta SIR after1	dB	0	3	0	3
Delta SIR2	dB	0	0	0	0
Delta SIR after2	dB	0	0	0	0
\hat{I}_{or}/I_{oc}	dB	9			
I_{oc}	dBm/3.84 MHz	-60			
Information Data Rate	kbps	12.2			
Propagation condition		Case 2			
Target quality value on DTCH	BLER	0.01			
Maximum_DL_Power	dB	7			
Minimum_DL_Power	dB	-18			
DL Power Control step size, Δ_{TPC}	dB	1			
Limited Power Increase	-	"Not used"			

Table 8.36: Requirements in downlink compressed mode

Parameter	Unit	Test 1	Test 2	Test 3	Test 4
$\frac{DPCH_{Ec}}{I_{or}}$	dB	-14.6	No requirements	-15.2	No requirements
Measured quality of compressed and recovery frames	BLER	No requirements	<0.001	No requirements	<0.001
Measured quality on DTCH	BLER	0.01 ± 30 %			

8.10 Blind transport format detection

----- Change of Section -----

A.5 DL reference compressed mode parameters

Parameters described in Table A.21 are used in some test specified in TS 25.101 while parameters described in Table A.22 are used in some tests specified in TS 25.133.

Set 1 parameters in Table A.21 are applicable when compressed mode by spreading factor reduction is used in downlink. ~~Set 2 parameters in Table A.21 are applicable when compressed mode by puncturing is used in downlink.~~

Table A.21: Compressed mode reference pattern 1 parameters

Parameter	Set 1	Set 2	Note
TGSN (Transmission Gap Starting Slot Number)	11	11	
TGL1 (Transmission Gap Length 1)	7	7	
TGL2 (Transmission Gap Length 2)	-	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	0	Only one gap in use.
TGPL1 (Transmission Gap Pattern Length)	4	4	
TGPRC (Transmission Gap Pattern Repetition Count)	NA	NA	Defined by higher layers
TGCFN (Transmission Gap Connection Frame Number):	NA	NA	Defined by higher layers
UL/DL compressed mode selection	DL & UL	DL & UL	2 configurations possible DL & UL / DL
UL compressed mode method	SF/2	SF/2	
DL compressed mode method	SF/2	Puncturing	
Downlink frame type and Slot format	11B	11A	
Scrambling code change	No	No	
RPP (Recovery period power control mode)	0	0	
ITP (Initial transmission power control mode)	0	0	

Table A.22: Compressed mode reference pattern 2 parameters

Parameter	Set 1	Set 2	Set 3	Set 4	Note
TGSN (Transmission Gap Starting Slot Number)	4	4	10	8	
TGL1 (Transmission Gap Length 1)	7	7	10	14	
TGL2 (Transmission Gap Length 2)	-	-	-	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	0	0	0	
TGPL1 (Transmission Gap Pattern Length)	3	12	11	4	
TGPRC (Transmission Gap Pattern Repetition Count)	NA	NA	NA	NA	Defined by higher layers
TGCFN (Transmission Gap Connection Frame Number):	NA	NA	NA	NA	Defined by higher layers
UL/DL compressed mode selection	DL & UL	DL & UL	DL & UL	DL & UL	2 configurations possible. DL & UL / DL
UL compressed mode method	SF/2	SF/2	SF/2	SF/2	
DL compressed mode method	SF/2	SF/2	Puncturing	SF/2	
Downlink frame type and Slot format	11B	11B	11A	11B	
Scrambling code change	No	No	No	No	
RPP (Recovery period power control mode)	0	0	0	0	
ITP (Initial transmission power control mode)	0	0	0	0	

A.6 DL reference parameters for PCH tests

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CHANGE REQUEST

⌘ **25.101 CR 419** ⌘ rev ⌘ Current version: **6.7.0** ⌘

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Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Feature Clean Up: Removal of Compressed mode by puncturing		
Source:	⌘ 3GPP TSG RAN WG4 (Radio)		
Work item code:	⌘ TEI6	Date:	⌘ 16/05/2005
Category:	⌘ C	Release:	⌘ Rel-6
	<i>Use <u>one</u> of the following categories:</i> 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 .		<i>Use <u>one</u> of the following releases:</i> 2 (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)

Reason for change:	⌘ RAN#27 decision on Feature Clean-up		
Summary of change:	⌘ Removal of reference to compressed mode by puncturing and associated performance requirements.		
	Isolated Impact Analysis Functionality removed: Compressed Mode by puncturing Isolated impact statement: Since functionality is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.		
Consequences if not approved:	⌘ Introduction of new features and evolution of the existing feature remain slow also in the future.		

Clauses affected:	⌘ 8.8, A.5										
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Y	N										
X											
X											
	X										
Other comments:	⌘										

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8.9.1 Single link performance

The receiver single link performance of the Dedicated Traffic Channel (DCH) in compressed mode is determined by the Block Error Ratio (BLER) and transmitted $\frac{DPCH_E_c}{I_{or}}$ power ratio in the downlink.

The compressed mode parameters are given in clause A.5. Tests 1 and 2 are using Set 1 compressed mode pattern parameters from Table A.21 in clause A.5 ~~while tests 3 and 4 are using Set 2 compressed mode patterns from the same table.~~

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Delta SIR after1	dB	0	3	0	3
Delta SIR2	dB	0	0	0	0
Delta SIR after2	dB	0	0	0	0
\hat{I}_{or}/I_{oc}	dB	9			
I_{oc}	dBm/3.84 MHz	-60			
Information Data Rate	kbps	12.2			
Propagation condition		Case 2			
Target quality value on DTCH	BLER	0.01			
Maximum_DL_Power	dB	7			
Minimum_DL_Power	dB	-18			
DL Power Control step size, Δ_{TPC}	dB	1			
Limited Power Increase	-	"Not used"			

Table 8.36: Requirements in downlink compressed mode

Parameter	Unit	Test 1	Test 2	Test 3	Test 4
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----- Change of Section -----

A.5 DL reference compressed mode parameters

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TGPL1 (Transmission Gap Pattern Length)	4	4	
TGPRC (Transmission Gap Pattern Repetition Count)	NA	NA	Defined by higher layers
TGCFN (Transmission Gap Connection Frame Number):	NA	NA	Defined by higher layers
UL/DL compressed mode selection	DL & UL	DL & UL	2 configurations possible DL & UL / DL
UL compressed mode method	SF/2	SF/2	
DL compressed mode method	SF/2	Puncturing	
Downlink frame type and Slot format	11B	11A	
Scrambling code change	No	No	
RPP (Recovery period power control mode)	0	0	
ITP (Initial transmission power control mode)	0	0	

Table A.22: Compressed mode reference pattern 2 parameters

Parameter	Set 1	Set 2	Set 3	Set 4	Note
TGSN (Transmission Gap Starting Slot Number)	4	4	10	8	
TGL1 (Transmission Gap Length 1)	7	7	10	14	
TGL2 (Transmission Gap Length 2)	-	-	-	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	0	0	0	
TGPL1 (Transmission Gap Pattern Length)	3	12	11	4	
TGPRC (Transmission Gap Pattern Repetition Count)	NA	NA	NA	NA	Defined by higher layers
TGCFN (Transmission Gap Connection Frame Number):	NA	NA	NA	NA	Defined by higher layers
UL/DL compressed mode selection	DL & UL	DL & UL	DL & UL	DL & UL	2 configurations possible. DL & UL / DL
UL compressed mode method	SF/2	SF/2	SF/2	SF/2	
DL compressed mode method	SF/2	SF/2	Puncturing	SF/2	
Downlink frame type and Slot format	11B	11B	11A	11B	
Scrambling code change	No	No	No	No	
RPP (Recovery period power control mode)	0	0	0	0	
ITP (Initial transmission power control mode)	0	0	0	0	

A.6 DL reference parameters for PCH tests

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CHANGE REQUEST

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	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:	⌘ RAN#27 decision on Feature Clean Up		
Summary of change:	⌘ FDD/TDD test cases, where compressed mode by puncturing is used, are removed as the compressed mode by puncturing feature is removed as a part of the Feature Clean Up.		
	<p>Isolated Impact Analysis</p> <p>Functionality removed: Compressed mode by puncturing Isolated impact statement: Since functionality is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.</p>		
Consequences if not approved:	⌘ Introduction of new features and evolution of the existing feature remain slow also in the future.		

Clauses affected:	⌘ A.5.3, A.8.3, A.9.1.8										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table>	Y	N	X		X			X	Other core specifications Test specifications O&M Specifications	⌘ 25.211,25.212,25.214,25.215, 25.331, 25.423, 25.433, 25.101 34.121
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A.5.2.2.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 220 ms from the beginning of time period T3.

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

A.5.3 ~~FDD/TDD Handover~~Void

~~A.5.3.1 Test purpose and Environment~~

~~A.5.3.1.1 3.84 Mcps TDD Option~~

~~The purpose of this test is to verify the requirement for the FDD/TDD handover delay in CELL_DCH state reported in section 5.3.2.1.~~

~~The test parameters are given in Table A.5.0CA, A.5.0CB and A.5.0CC below. In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH RSCP of the best cell on the unused frequency shall be reported together with Event 2C reporting. 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 message 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. The RRC procedure delay is defined [16].~~

~~The UL DPCH in cell 2 shall be transmitted in timeslot 10.~~

Table A.5.0CA: General test parameters for FDD/TDD handover

Parameter	Unit	Value	Comment
DCH parameters		DL and UL Reference-Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and in TS 25.102 section A.2
Power Control		On	
Target quality value on-DTCH	BLER	0.01	
Compressed mode		A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active cell	Cell 1	FDD cell
	Neighbour cell	Cell 2	TDD cell
Final condition	Active cell	Cell 2	TDD cell
Q	dB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis	dB	0	Hysteresis parameter for event 2C
Time to Trigger	ms	0	
Threshold non-used frequency	dBm	-75	Applicable for Event 2C
Filter coefficient		0	
Monitored cell list size		6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T_{SI}	s	4.28	The value shall be used for all cells in the test
T1	s	5	
T2	s	15	
T3	s	5	

Table A.5.0CB: Cell 1 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 1	
		T1, T2	T3
UTRA RF Channel-Number		Channel 1	
CPICH_Ec/Ior	dB	-10	
P-CCPCH_Ec/Ior	dB	-12	
SCH_Ec/Ior	dB	-12	
PICH_Ec/Ior	dB	-15	
DPCH_Ec/Ior	dB	Note 1	n.a.
OCNS_Ec/Ior	dB	Note 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_{oc} .			

Table A.5.0CC: Cell 2 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 2								
		0			2			8		
DL-timeslot number		T1	T2	T3	T1	T2	T3	T1	T2	T3
UTRA RF Channel-Number		Channel 2								
P-CCPCH_Ec/Ior	dB	-3			n.a.			n.a.		
PICH_Ec/Ior	dB	n.a.			n.a.			-3		
SCH_Ec/Ior	dB	-9			n.a.			-9		
SCH_t_offset	dB	5			n.a.			5		
DPCH_Ec/Ior	dB	n.a.			n.a.		Note 1	n.a.		
OCNS_Ec/Ior	dB	-3,12			0		Note 2	-3,12		
\hat{I}_{or}/I_{oc}	dB	-Inf	6	-Inf	6		-Inf	6		
P-CCPCH RSCP	dBm	-Inf	-67	n.a.			n.a.			
I_{oc}	dBm/3.84-MHz	-70								
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_{oc} .										
Note that the transmit energy per PN chip for the SCH is averaged over the 256 chip duration when the SCH is present in the time slot.										

A.5.3.1.2 1.28 Mcps TDD Option

The purpose of this test is to verify the requirement for the FDD/TDD handover delay in CELL_DCH state reported in section 5.3.2.1.

The test parameters are given in Table A.5.0CD, A.5.0CE and A.5.0CF below. In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH RSCP of the best cell on the unused frequency shall be reported together with Event 2C reporting. 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 message with activation time at the beginning of T3 with a new active cell, cell 2. The Physical Channel reconfiguration message shall be sent to the UE such that the delay between the end of the last received TTI containing the message and the beginning of T3 is at least equal to the RRC procedure delay as defined in [16].

The UL DPCH in cell 2 shall be transmitted in timeslot 10.

Table A.5.0CD: General test parameters for FDD/TDD handover

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and in TS 25.102 section A.2
Power Control			On	
Target quality value on DTCH		BLER	0.01	
Compressed mode			A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active cell		Cell 1	FDD cell
	Neighbour cell		Cell 2	TDD cell
Final condition	Active cell		Cell 2	TDD cell
Θ		DB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis		DB	0	Hysteresis parameter for event 2C
Time to Trigger		Ms	0	
Threshold non-used frequency		DBm	-75	Applicable for Event 2C
Filter coefficient			0	
Monitored cell list size			6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T_{SI}		S	1.28	The value shall be used for all cells in the test
$T1$		S	5	
$T2$		S	15	
$T3$		S	5	

Table A.5.0CE: Cell 1 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 1	
		T1, T2	T3
UTRA RF Channel Number		Channel 1	
CPICH_Ec/I _{or}	dB	-10	
P-CCPCH_Ec/I _{or}	dB	-12	
SCH_Ec/I _{or}	dB	-12	
PICH_Ec/I _{or}	dB	-15	
DPCH_Ec/I _{or}	dB	Note 1	n.a.
OCNS_Ec/I _{or}	dB	Note 2	
\hat{I}_{or}/I_{oc}	dB	0	
I_{oc}	dBm/3.84 MHz	-70	
CPICH_Ec/I _e	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} .			

Table A.5.0CF: Cell 2 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 2					
		0			DwPTS		
DL-timeslot number		T1	T2	T3	T1	T2	T3
UTRA-RF-Channel-Number		Channel 2					
P-CCPCH_Ec/Ior	dB	-3					
DwPCH_Ec/Ior	dB				0		
DPCH_Ec/Ior	dB				Note 4		
OCNS_Ec/Ior	dB	-3			Note 2		
\hat{I}_{or}/I_{oc}	dB	-Inf	6		-Inf	6	
P-CCPCH RSCP	dBm	-Inf	-67				
I_{oc}	dBm/1.28 MHz	-70					
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 Ior.							

A.5.3.2 Test Requirements

The UE shall start to transmit the UL DPCH to Cell 2 less than 110 ms from the beginning of time period T3.

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

A.5.4 Inter-system Handover from UTRAN FDD to GSM

A.5.4.1 Test Purpose and Environment

This test is to verify the requirement for the UTRAN to GSM cell handover delay reported in section 5.4.2.1.

The test parameters are given in Table A.5.0D, A.5.0E and A.5.0F below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 3C shall be used. 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.

The UTRAN shall send a Handover from UTRAN command with activation time "now" with a new active cell, cell 2. In the GSM Handover command contained in that message, the IE starting time shall not be included. The RRC HANDOVER FROM UTRAN COMMAND message shall be sent to the UE. The start of T3 is defined as the end of last TTI containing the HO command.

The requirements are also applicable for a UE not requiring compressed mode, in which case no compressed mode pattern should be sent for the parameters specified in table A5.0D

Table A.5.0D: General test parameters for Correct reporting of GSM neighbours in AWGN propagation condition

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	
Target quality value on DTCH	BLER	0.01	
Compressed mode patterns - GSM carrier RSSI measurement - GSM Initial BSIC identification - GSM BSIC re-confirmation		DL Compressed mode reference pattern 2 in Set 2 Pattern 2 Pattern 2	Only applicable for UE requiring compressed mode patterns As specified in table A.22 TS 25.101 section A.5 As specified in section 8.1.2.5.2.1 table 8.7. As specified in section 8.1.2.5.2.2 table 8.8.
Active cell		Cell 1	
Inter-RAT measurement quantity		GSM Carrier RSSI	
BSIC verification required		Required	
Threshold other system	dBm	-80	Absolute GSM carrier RSSI threshold for event 3B and 3C.
Hysteresis	dB	0	
Time to Trigger	ms	0	
Filter coefficient		0	
Monitored cell list size		24 FDD neighbours on Channel 1 6 GSM neighbours including ARFCN 1	Measurement control information is sent before the compressed mode patterns starts.
N Identify abort		66	Taken from table 8.7.
T Reconfirm abort		5.5	Taken from table 8.8.
T1	s	20	
T2	s	5	
T3	s	5	

Table A.5.0E: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 1)

Parameter	Unit	Cell 1 (UTRA)
		T1, T2, T3
CPICH_Ec/I _{or}	dB	-10
PCCPCH_Ec/I _{or}	dB	-12
SCH_Ec/I _{or}	dB	-12
PICH_Ec/I _{or}	dB	-15
DCH_Ec/I _{or}	dB	Note 1
OCNS_Ec/I _{or}	dB	Note 2
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84 MHz	-70
CPICH_Ec/I _o	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} .		

Table A.5.0F: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 2)

Parameter	Unit	Cell 2 (GSM)	
		T1	T2, T3
Absolute RF Channel Number		ARFCN 1	
RXLEV	dBm	-85	-75

*****NEXT MODIFIED SECTIONS*****

A.8.2.2.2 Test Requirements

- a) The UE shall send one Event 2C triggered measurement report, with a measurement reporting delay less than 36 seconds from the beginning of time period T2.
- b) The UE shall not send any measurement reports, as long as the reporting criteria are not fulfilled.

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

A.8.3 ~~TDD measurements~~ Void

~~A.8.3.1 Correct reporting of TDD neighbours in AWGN propagation condition~~

~~A.8.3.1.1 Test Purpose and Environment~~

~~A.8.3.1.1.1 3.84 Mcps TDD Option~~

~~The purpose of this test is to verify that the UE makes correct reporting of events when measuring on UTRA TDD cells. This test will partly verify the requirements in section 8.1.2 and 9.1.~~

~~The test parameters are given in Table A.8.13, A.8.14 and A.14A below. The test consists of two successive time periods, with time duration of T1 and T2 respectively. Two cells shall be present in the test, cell 1 being the serving UTRA FDD cell and cell 2 being a UTRA TDD neighbour cell.~~

~~In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH RSCP 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.~~

~~The TTI of the uplink DCCH shall be 20ms.~~

Table A.8.13: General test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

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	
Target quality value on-DTCH	BLER	0.01	
Compressed mode		A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active-cell	Cell 1	FDD-cell
	Neighbour-cell	Cell 2	TDD-cell
Final condition	Active-cell	Cell 1	FDD-cell
Δ	dB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis	dB	0	Hysteresis parameter for event 2C
Time to Trigger	ms	0	
Threshold non-used-frequency	dBm	-71	Applicable for Event 2C
Filter coefficient		0	
Monitored cell list size		6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T1	s	15	
T2	s	10	

Table A.8.14: Cell 1 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 1
		T1, T2
UTRA RF Channel- Number		Channel 1
CPICH_Ec/I _{or}	dB	-10
P-CCPCH_Ec/I _{or}	dB	-12
SCH_Ec/I _{or}	dB	-12
PICH_Ec/I _{or}	dB	-15
DPCH_Ec/I _{or}	dB	Note 1
OCNS_Ec/I _{or}	dB	Note 2
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84- MHz	-70
CPICH_Ec/I _o	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} .		

Table A.5.14A: Cell 2 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 2			
		0		8	
DL timeslot number		T1	T2	T1	T2
UTRA RF Channel Number		Channel 2			
P-CCPCH_Ec/Ior	dB	-3		n.a.	
PICH_Ec/Ior	dB	n.a.		-3	
SCH_Ec/Ior	dB	-9			
SCH_t_offset	dB	10			
OCNS_Ec/Ior	dB	-3.12			
P-CCPCH-RSCP	dBm	-75	-67	n.a.	n.a.
\hat{I}_{or}/I_{oc}	dB	-2	6	-2	6
I_{oc}	dBm/3.84-MHz	-70			
Propagation Condition		AWGN			
Note that the transmit energy per PN chip for the SCH is averaged over the 256 chip duration when the SCH is present in the time slot.					

A.8.3.1.1.2 — 1.28 Mcps TDD Option

The purpose of this test is to verify that the UE makes correct reporting of events when measuring on UTRA TDD cells. This test will partly verify the requirements in section 8.1.2. and 9.1.

The test parameters are given in Table A.8.14B, A.8.14C and A.8.14D below. The test consists of two successive time periods, with time duration of T1 and T2 respectively. Two cells shall be present in the test, cell 1 being the serving UTRA FDD cell and cell 2 being a UTRA TDD neighbour cell.

In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH-RSCP 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.

The TTI of the uplink DCCH shall be 20ms.

Table A.8.14B: General test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

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	
Target quality value on DTCH	BLER	0.01	
Compressed mode		A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active cell	Cell 1	FDD cell
	Neighbour cell	Cell 2	TDD cell
Final condition	Active cell	Cell 1	FDD cell
Θ	dB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis	dB	0	Hysteresis parameter for event 2C
Time to Trigger	ms	0	
Threshold non-used frequency	dBm	-74	Applicable for Event 2C
Filter coefficient		0	
Monitored cell list size		6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T1	s	15	
T2	s	10	

Table A.8.14C: Cell 1 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 1
		T1, T2
UTRA RF Channel Number		Channel 1
CPICH_Ec/I _{oc}	dB	-10
P-CCPCH_Ec/I _{oc}	dB	-12
SCH_Ec/I _{oc}	dB	-12
PICH_Ec/I _{oc}	dB	-15
DPCH_Ec/I _{oc}	dB	Note 1
OCNS_Ec/I _{oc}	dB	Note 2
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84-MHz	-70
CPICH_Ec/I _o	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 _{oc} .		

Table A.8.14D: Cell 2 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 2			
		0		DwPTS	
DL timeslot number		T1	T2	T1	T2
UTRA RF Channel Number		Channel 2			
P-CCPCH_Ec/I _{oc}	dB	-3			
DwPCH_Ec/I _{oc}	dB			0	
OCNS_Ec/I _{oc}	dB	-3			
P-CCPCH_RSCP	dBm	-75	-67		
\hat{I}_{or}/I_{oc}	dB	-2	6	-2	6
I_{oc}	dBm/1.28-MHz	-70			
Propagation Condition		AWGN			

A.8.3.1.2 Test Requirements

The UE shall send one Event 2C triggered measurement report for Cell 2 with a measurement reporting delay less than 8.8 s from the beginning of time period T2.

The UE shall not send event triggered measurement reports, as long as the reporting criteria are not fulfilled.

The rate of events correctly reported during repeated tests shall be at least 90%.

A.8.4 GSM measurements

A.8.4.1 Correct reporting of GSM neighbours in AWGN propagation condition

A.8.4.1.1 Test Purpose and Environment

The purpose of these tests is to verify that the UE makes correct reporting of an event when doing inter-RAT GSM measurements. The test will partly verify the requirements in section 8.1.2.5. The requirements are also applicable for a

UE not requiring compressed mode, in which case no compressed mode pattern should be sent for the parameters specified in table A8.15.

The test consists of three successive time periods, with a time duration T1, T2 and T3. The test parameters are given in tables A.8.15, A.8.16 and A.8.17 below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 3B and 3C shall be used.

A.8.4.1.1.1 Test 1. With BSIC verification required

Table A.8.15: General test parameters for Correct reporting of GSM neighbours in AWGN propagation condition, Test 1

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	
Target quality value on DTCH	BLER	0.01	
Compressed mode patterns			Only applicable for UE requiring compressed mode patterns
- GSM carrier RSSI measurement		DL Compressed mode reference pattern 2 in Set 2	As specified in table A.22 TS 25.101 section A.5
- GSM Initial BSIC identification		Pattern 2	As specified in section 8.1.2.5.2.1 table 8.7.
Active cell		Cell 1	
Inter-RAT measurement quantity		GSM Carrier RSSI	
BSIC verification required		required	
Threshold other system	dBm	-80	Absolute GSM carrier RSSI threshold for event 3B and 3C.
Hysteresis	dB	0	
Time to Trigger	ms	0	
Filter coefficient		0	
Monitored cell list size		24 FDD neighbours on Channel 1 6 GSM neighbours including ARFCN 1	Measurement control information is sent before the compressed mode patterns starts.
N Identify abort		66	Taken from table 8.7.
T1	s	5	
T2	s	7	
T3	s	5	

Table A.8.16: Cell specific test parameters for Correct reporting of GSM neighbours in AWGN propagation condition (cell 1)

Parameter	Unit	Cell 1
		T1, T2, T3
UTRA RF Channel Number		Channel 1
CPICH_Ec/I _{or}	dB	-10
PCCPCH_Ec/I _{or}	dB	-12
SCH_Ec/I _{or}	dB	-12
PICH_Ec/I _{or}	dB	-15
DPCH_Ec/I _{or}	dB	Note 1
OCNS		Note 2
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/ 3.84 MHz	-85
CPICH_Ec/I _o	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} .		

Table A.8.17: Cell specific test parameters for Correct reporting of GSM neighbours in AWGN propagation condition (cell 2)

Parameter	Unit	Cell 2		
		T1	T2	T3
Absolute RF Channel Number		ARFCN 1		
RXLEV	dBm	-infinity	-75	-85

*****NEXT MODIFIED SECTIONS*****

A.9.1.7.2 Test Requirements

Note: Requirements will be added when the requirement scenario is defined.

A.9.1.8 P-CCPCH RSCP

A.9.1.8.1 Test Purpose and Environment

The purpose of this test is to verify that the P-CCPCH RSCP measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.11 and applies to UE supporting this capability.

A.9.1.8.1.1 Inter frequency test parameters

A.9.1.8.1.1.1 3.84 Mcps TDD Option

In this case both cells are on different frequencies and compressed mode as specified in TS 25.101 section A.5, set 3 of table A.22, is applied. Cell 1 is a UTRA FDD cell and cell 2 is a UTRA TDD cell.

P-CCPCH RSCP inter frequency absolute accuracy requirements are tested by using test parameters in Table A.9.13.

Table A.9.13: P-CCPCH RSCP inter frequency test parameters

Parameter	Unit	Test 1			Test 2		
		Cell 1	Cell 2		Cell 1	Cell 2	
DL timeslot number		n.a.	0	8	n.a.	0	8
UTRA RF Channel number		Channel 2	Channel 4		Channel 2	Channel 4	
CPICH_Ec/Ior	dB	-40	n.a.		-40	n.a.	
P-CCPCH_Ec/Ior	dB	-12	-3	n.a.	-12	-3	n.a.
SCH_Ec/Ior	dB	-12	-9		-12	-9	
SCH_toffset		n.a.	5		n.a.	5	
PICH_Ec/Ior	dB	-15	n.a.	-3	-15	n.a.	-3
DPCH_Ec/Ior	dB	-15	n.a.		-15	n.a.	
OCNS_Ec/Ior	dB	-1.11	-3.12		-1.11	-3.12	
Ior	dBm/3.84-MHz	-60	-57.7		-84	-84.7	
Ior/Ior	dB	9.54	7		0	3	
P-CCPCH RSCP, Note 1	dBm	n.a.	-53.7	n.a.	n.a.	-84.7	n.a.
CPICH RSCP, Note 1	dBm	-60.46	n.a.		-94	n.a.	
Ior, Note 1	dBm/3.84-MHz	-50	-50		-84	-80	
Propagation condition	-	AWGN			AWGN		
Note 1: P-CCPCH RSCP, CPICH RSCP and Ior levels have been calculated from other parameters for information purposes. They are not settable parameters themselves. Note that the transmit energy per PN chip for the SCH is averaged over the 256 chip duration when the SCH is present in the time slot. Tests shall be done sequentially. Test 1 shall be done first. After test 1 has been executed, test parameters for test 2 shall be set within 5 seconds so that the UE does not lose the Cell 2 in between the test.							

A.9.1.8.1.1.2 1.28 Mcps TDD Option

In this case both cells are on different frequencies and compressed mode as specified in TS 25.101 section A.5, set 3 of table A.22, is applied. Cell 1 is a UTRA FDD cell and cell 2 is a UTRA TDD cell.

P-CCPCH RSCP inter frequency absolute accuracy requirements are tested by using test parameters in Table A.9.14.

Table A.9.14: P-CCPCH RSCP inter frequency test parameters

Parameter	Unit	Test 1			Test 2		
		Cell 1	Cell 2		Cell 1	Cell 2	
DL timeslot number		n.a.	0	DwP Ts	n.a.	0	DwP Ts
UTRA RF Channel number		Channel 2	Channel 4		Channel 2	Channel 4	
CPICH_Ec/Ior	dB	-40	n.a.		-40	n.a.	
P-CCPCH_Ec/Ior	dB	-12	-3		-12	-3	
DwPCH_Ec/Ior	dB	-12	0		-12	0	
PICH_Ec/Ior	dB	-15	n.a.	n.a.	-15	n.a.	n.a.
DPCH_Ec/Ior	dB	-15	n.a.	n.a.	-15	n.a.	n.a.
OCNS_Ec/Ior	dB	-1.11	-3		-1.11	-3	
Ior		-60 dBm/3.84-MHz	-57.7 dBm/1.28-MHz		-84 dBm/3.84-MHz	-84.7 dBm/1.28-MHz	
Ior/Ior	dB	9.54	7		0	3	
P-CCPCH RSCP, Note 1	dBm	n.a.	-53.7		n.a.	-84.7	
CPICH RSCP, Note 1	dBm	-60.46	n.a.		-94	n.a.	
Ior, Note 1		-50 dBm/3.84-MHz	-50 dBm/1.28-MHz		-84 dBm/3.84-MHz	-80 dBm/1.28-MHz	
Propagation condition	-	AWGN			AWGN		
Note 1: P-CCPCH RSCP, CPICH RSCP and Ior levels have been calculated from other parameters for information purposes. They are not settable parameters themselves. Tests shall be done sequentially. Test 1 shall be done first. After test 1 has been executed, test parameters for test 2 shall be set within 5 seconds so that the UE does not lose the Cell 2 in between the test.							

~~A.9.1.8.2—Test Requirements~~

~~The P-CCPCH RSCP measurement accuracy shall meet the requirements in section 9.1.11.~~

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

Annex B (informative): Change History

Initial version at TSG-RAN#6 (December 1999): 3.0.0

Table B.1: CRs approved by TSG-RAN#7.

RAN Doc	Spec	CR	R	Ph	Subject	Cat	Curr	New
RP-00021	25.133	001		R99	Modification of RL Failure Requirement	F	3.0.0	3.1.0
RP-00021	25.133	002		R99	Idle Mode Tasks	C	3.0.0	3.1.0
RP-00021	25.133	003		R99	Revised UE handover requirements	F	3.0.0	3.1.0
RP-00021	25.133	004		R99	Editorial corrections	D	3.0.0	3.1.0
RP-00021	25.133	005		R99	UE measurement requirement update	F	3.0.0	3.1.0
RP-00021	25.133	006		R99	TDD Measurements Performance Requirements for TS25.133 (FDD)	B	3.0.0	3.1.0
RP-00021	25.133	007		R99	UTRAN measurement requirement update	F	3.0.0	3.1.0
RP-00021	25.133	008		R99	Requirements on parallel measurements	F	3.0.0	3.1.0
RP-00021	25.133	009		R99	Inclusion on transport channel BER.	F	3.0.0	3.1.0

NOTE On implementation of CR 25.133-003. On page 16 there is a dotted line above title 5.1.2.1.4 ACTIVE SET DIMENSION. The text following is a duplication of version 3.0.0 to the point of sub-clause 5.1.2.2.1.3. HARD HANDOVER DELAY. Therefore all text from page 16 starting from 5.1.2.1.4 ACTIVE SET DIMENSION is moved to sub-clause 5.1.2.2.1.3 HARD HANDOVER DELAY on page 19.

Table B.2: CRs approved by TSG-RAN#8.

RAN Doc	Spec	CR	R	Ph	Subject	Cat	Curr	New
RP-000210	25.133	010		R99	Measurement period for UTRAN SIR	F	3.1.0	3.2.0
RP-000210	25.133	011		R99	Measurement period for UE BLER	F	3.1.0	3.2.0
RP-000210	25.133	013		R99	Measurement delay reporting	F	3.1.0	3.2.0
RP-000210	25.133	015		R99	Correction - Propagation conditions	F	3.1.0	3.2.0
RP-000210	25.133	016		R99	Remove requirements on SSDT from 5.1.1.8.	D	3.1.0	3.2.0
RP-000210	25.133	017		R99	Update of test parameters to P-CCPCH Measurements performance requirements	F	3.1.0	3.2.0
RP-000210	25.133	018		R99	Repetition Period of System Information	F	3.1.0	3.2.0
RP-000210	25.133	019		R99	Alignment of Cell Selection/reselection test scenario parameters	F	3.1.0	3.2.0
RP-000210	25.133	020		R99	Editorial corrections for TS25.133	F	3.1.0	3.2.0
RP-000210	25.133	021		R99	Removal of Annex A	F	3.1.0	3.2.0
RP-000210	25.133	022		R99	Requirement for UE Tx Power Measurement	F	3.1.0	3.2.0
RP-000210	25.133	023		R99	Insertion of Range/Mapping from TS 25.215 revised	F	3.1.0	3.2.0
RP-000210	25.133	024		R99	Signalling response delay	F	3.1.0	3.2.0
RP-000210	25.133	025		R99	Missing measurement periods	F	3.1.0	3.2.0
RP-000210	25.133	026		R99	RRC Connection mobility in CELL_FACH, CELL_PCH and URA_PCH	F	3.1.0	3.2.0
RP-000210	25.133	027		R99	Switching delay requirement for inter-system handover	F	3.1.0	3.2.0
RP-000210	25.133	028		R99	UE Chip time measurements	F	3.1.0	3.2.0
RP-000210	25.133	029		R99	UE Transmit Timing Adjustment	F	3.1.0	3.2.0
RP-000210	25.133	030		R99	Add GPS timing measurements to TS 25.133	F	3.1.0	3.2.0
RP-000210	25.133	031		R99	Test scenario for UTRAN to GSM cell re-selection	F	3.1.0	3.2.0
RP-000210	25.133	032		R99	Proposed test case for random access procedure (FDD)	F	3.1.0	3.2.0
RP-000210	25.133	033		R99	Inclusion of measurement granularities and ranges	F	3.1.0	3.2.0
RP-000210	25.133	034		R99	Parallel measurement requirements	F	3.1.0	3.2.0
RP-000210	25.133	035		R99	UE Hard handover switching time	F	3.1.0	3.2.0

Table B.3: CRs approved by TSG-RAN#9

RAN Doc	Spec	CR	R	Ph	Subject	Cat	Curr	New
RP-000400	25.133	036		R99	Corrections to definitions, symbols and abbreviations	F	3.2.0	3.3.0
RP-000400	25.133	037		R99	Handling of measurement uncertainties in Base station conformance testing (FDD) for RRM measurements	F	3.2.0	3.3.0
RP-000400	25.133	038		R99	Proposal for section 4	F	3.2.0	3.3.0
RP-000400	25.133	039		R99	Proposal for section 5	F	3.2.0	3.3.0
RP-000400	25.133	040		R99	Proposal for section 8	F	3.2.0	3.3.0
RP-000400	25.133	041		R99	Proposal for section 9	F	3.2.0	3.3.0
RP-000497	25.133	042	1	R99	Revision of requirement and range of measurement for CPCH	F	3.2.0	3.3.0
RP-000497	25.133	043	1	R99	Inclusion of UTRAN measurements in 25.133	F	3.2.0	3.3.0
RP-000400	25.133	044		R99	Proposal for section 7 and A.7	F	3.2.0	3.3.0
RP-000400	25.133	045		R99	Text proposal for section A.1, A.2 and A.3	F	3.2.0	3.3.0
RP-000400	25.133	046		R99	Proposal for section 6	F	3.2.0	3.3.0

Table B.4: CRs approved by TSG RAN#10

RAN Doc	Spec	CR	R	Ph	Subject	Cat	Curr	New
RP-000591	25.133	47		R99	Received total wideband power	F	3.3.0	3.4.0
RP-000591	25.133	48		R99	Removal of cell selection delay requirements	F	3.3.0	3.4.0
RP-000591	25.133	49		R99	Clarification of the random access requirements	F	3.3.0	3.4.0
RP-000591	25.133	50		R99	Correction of RRC re-establishment requirements	F	3.3.0	3.4.0
RP-000591	25.133	51		R99	Event triggered reporting in AWGN conditions	F	3.3.0	3.4.0
RP-000591	25.133	52		R99	Inter frequency measurements in AWGN	F	3.3.0	3.4.0
RP-000591	25.133	53	1	R99	Physical channel BER accuracy	F	3.3.0	3.4.0
RP-000591	25.133	54	1	R99	Event triggered reporting in fading conditions	F	3.3.0	3.4.0
RP-000591	25.133	55		R99	Periodic reporting in AWGN	F	3.3.0	3.4.0
RP-000591	25.133	56		R99	Introduction of UE Rx-Tx time difference type 1 & 2	F	3.3.0	3.4.0
RP-000591	25.133	57		R99	Correction of UE Tx timing adjustment	F	3.3.0	3.4.0
RP-000591	25.133	58		R99	Alignment of intra frequency CPICH Ec/Io measurement requirements in TS25.133	F	3.3.0	3.4.0
RP-000591	25.133	59		R99	Multiple neighbour test cases	F	3.3.0	3.4.0
RP-000591	25.133	60		R99	Correction of intra- and inter frequency measurement requirement.	F	3.3.0	3.4.0
RP-000591	25.133	61		R99	Correction of TDD measurement requirements.	F	3.3.0	3.4.0
RP-000591	25.133	62		R99	General cell re-selection requirements	F	3.3.0	3.4.0
RP-000591	25.133	63		R99	BSIC verification requirements in TS25.133	F	3.3.0	3.4.0
RP-000591	25.133	64		R99	GSM RSSI measurement	F	3.3.0	3.4.0
RP-000591	25.133	65		R99	Clarification of parallel measurement section	F	3.3.0	3.4.0

Table B.5: CRs approved by TSG RAN#11

RAN Doc	Spec	CR	R	Ph	Subject	Cat	Curr	New
RP-010091	25.133	66		R99	General idle mode requirements	F	3.4.0	3.5.0
RP-010091	25.133	67		R99	Removal of Signalling Delay Requirements	F	3.4.0	3.5.0
RP-010091	25.133	68		R99	FDD/GSM handover	F	3.4.0	3.5.0
RP-010091	25.133	69		R99	Revised Correction of hard handover delay requirements	F	3.4.0	3.5.0
RP-010091	25.133	70		R99	Cell-Reselection, Measurements of inter-frequency TDD cells	F	3.4.0	3.5.0
RP-010091	25.133	71		R99	Correction of number of events that should be handled by the UE	F	3.4.0	3.5.0
RP-010091	25.133	72		R99	Revised limitations to the usage of compressed mode patterns	F	3.4.0	3.5.0
RP-010091	25.133	73		R99	Measurements on FDD and TDD in Cell-FACH state	F	3.4.0	3.5.0
RP-010091	25.133	74		R99	Measurements on GSM in Cell-FACH state	F	3.4.0	3.5.0
RP-010091	25.133	75		R99	Cell re-selection in Cell-FACH state	F	3.4.0	3.5.0
RP-010091	25.133	76		R99	General Measurement Requirements in CELL_DCH State	F	3.4.0	3.5.0
RP-010091	25.133	77		R99	GSM Measurements	F	3.4.0	3.5.0
RP-010091	25.133	78		R99	Cell reselection performance	F	3.4.0	3.5.0
RP-010091	25.133	79		R99	CPICH Ec/Io mapping	F	3.4.0	3.5.0
RP-010091	25.133	80		R99	UTRAN transport channel BLER measurement	F	3.4.0	3.5.0
RP-010091	25.133	81		R99	UTRAN physical channel BER measurement	F	3.4.0	3.5.0
RP-010091	25.133	82		R99	Test case for FDD/TDD cell re-selection .	F	3.4.0	3.5.0
RP-010091	25.133	83		R99	Requirements for event triggered reporting in fading conditions	F	3.4.0	3.5.0
RP-010091	25.133	84		R99	Modification of soft handover requirements	F	3.4.0	3.5.0
RP-010091	25.133	85		R99	Clarifications of TDD measurements and the use of compressed mode pattern for TDD measurements.	F	3.4.0	3.5.0
RP-010091	25.133	86		R99	UE transmit Timing	F	3.4.0	3.5.0
RP-010091	25.133	87		R99	Correction of the FDD/TDD handover requirement in connected mode.	F	3.4.0	3.5.0

Table B.6: Release 4 CR approved by TSG RAN#11

RAN Doc	Spec	CR	R	Ph	Subject	Cat	Curr	New
RP-010099	25.133	88		R4	UE/UTRAN GPS Timing of Cell Frames for LCS	B	3.5.0	4.0.0

Table B.7: Release 4 CRs approved by TSG RAN#12

RAN Doc	Spec	CR	R	Ph	Title	Cat	Curr	New
RP-010353	25.133	90		Rel-4	Correction of FDD/TDD handover requirement.	A	4.0.0	4.1.0
RP-010353	25.133	92		Rel-4	Extraction of TGSN_proposed	A	4.0.0	4.1.0
RP-010353	25.133	94		Rel-4	Corrections to cell re-selection requirements	A	4.0.0	4.1.0
RP-010353	25.133	96		Rel-4	UTRAN to GSM cell reselection delay in CELL_FACH state	A	4.0.0	4.1.0
RP-010353	25.133	98		Rel-4	Corrections for idle mode section	A	4.0.0	4.1.0
RP-010353	25.133	100		Rel-4	Cell-reselection test cases in CELL_PCH and URA_PCH	A	4.0.0	4.1.0
RP-010353	25.133	102		Rel-4	Idle mode cell-reselection test cases	A	4.0.0	4.1.0
RP-010353	25.133	104		Rel-4	Measurements in CELL_FACH State	A	4.0.0	4.1.0
RP-010353	25.133	106		Rel-4	Cell-reselection test cases in CELL_FACH	A	4.0.0	4.1.0
RP-010353	25.133	108		Rel-4	GSM measurements in CELL_DCH state	A	4.0.0	4.1.0
RP-010354	25.133	112		Rel-4	Corrections for multiple neighbour test cases	A	4.0.0	4.1.0
RP-010354	25.133	114		Rel-4	Corrections for Section 5	A	4.0.0	4.1.0
RP-010354	25.133	116		Rel-4	RRC Connection re-establishment	A	4.0.0	4.1.0
RP-010354	25.133	118		Rel-4	Corrections for Section 9	A	4.0.0	4.1.0
RP-010354	25.133	120		Rel-4	Correction for a CPICH_Ec/Io definition	A	4.0.0	4.1.0
RP-010354	25.133	122		Rel-4	Detection and measurements of new cells not belonging to monitored set	A	4.0.0	4.1.0
RP-010364	25.133	123		Rel-4	Detection and measurements of new cells not belonging to monitored set	F	4.0.0	4.1.0
RP-010495	25.133	125	2	Rel-4	Requirements for TFC selection at the maximum power	A	4.0.0	4.1.0

Table B.8: Release 4 CRs approved by TSG RAN#13

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New
RP-010619	25.133	127		Rel-4	Clarifications on TDD measurements and related accuracy requirements	A	4.1.0	4.2.0
RP-010619	25.133	129		Rel-4	Handover delay correction	A	4.1.0	4.2.0
RP-010619	25.133	131		Rel-4	Corrections to intra-frequency test case A.8.1.1	A	4.1.0	4.2.0
RP-010619	25.133	133		Rel-4	Cell Re-selection - requirement for Camped on Any Cell state	A	4.1.0	4.2.0
RP-010619	25.133	135		Rel-4	FDD/FDD Hard Handover Testcase	A	4.1.0	4.2.0
RP-010619	25.133	137		Rel-4	Success rates in test cases	A	4.1.0	4.2.0
RP-010619	25.133	139		Rel-4	FDD/GSM Handover test case	A	4.1.0	4.2.0
RP-010619	25.133	143		Rel-4	TFC selection in the UE	A	4.1.0	4.2.0
RP-010619	25.133	145		Rel-4	Periodic and event triggered reporting of GSM cells in CELL_DCH	A	4.1.0	4.2.0
RP-010620	25.133	147		Rel-4	Test conditions for GSM Carrier RSSI	A	4.1.0	4.2.0
RP-010620	25.133	149		Rel-4	Transport Channel BER accuracy requirement	A	4.1.0	4.2.0
RP-010620	25.133	151		Rel-4	Clarification to Requirement classification for statistical testing	A	4.1.0	4.2.0
RP-010620	25.133	153		Rel-4	Correction to FDD/TDD cell re-selection test case	A	4.1.0	4.2.0
RP-010620	25.133	155		Rel-4	Editorial corrections to UTRAN measurements in section 9.2	A	4.1.0	4.2.0
RP-010620	25.133	157		Rel-4	RACH reporting	A	4.1.0	4.2.0
RP-010620	25.133	159		Rel-4	Correction for Test Case A.8.1.3	A	4.1.0	4.2.0
RP-010620	25.133	161		Rel-4	UTRAN to GSM cell re-selection test cases	A	4.1.0	4.2.0
RP-010620	25.133	163		Rel-4	Requirement for the monitor list	A	4.1.0	4.2.0
RP-010620	25.133	165		Rel-4	Correction for event triggered report	A	4.1.0	4.2.0
RP-010621	25.133	167		Rel-4	Cell Re-selection in CELL_FACH test case	A	4.1.0	4.2.0
RP-010621	25.133	169		Rel-4	Correction for RRC re-establishment delay	A	4.1.0	4.2.0
RP-010621	25.133	171		Rel-4	Correction for section 5	A	4.1.0	4.2.0
RP-010621	25.133	173		Rel-4	Section 4	A	4.1.0	4.2.0
RP-010621	25.133	175		Rel-4	Section 8	A	4.1.0	4.2.0
RP-010621	25.133	177		Rel-4	Cell reselection test cases in CELL_FACH state	A	4.1.0	4.2.0
RP-010621	25.133	179		Rel-4	Correction for FDD to TDD HO requirement	A	4.1.0	4.2.0
RP-010631	25.133	181		Rel-4	UTRAN SFN-SFN observed time difference	B	4.1.0	4.2.0
RP-010631	25.133	182		Rel-4	Correction of UE positioning measurements	F	4.1.0	4.2.0
RP-010631	25.133	183		Rel-4	RACH Propagation delay accuracy	F	4.1.0	4.2.0
RP-010621	25.133	186		Rel-4	TFC state change description	A	4.1.0	4.2.0

Table B.9: Release 5 CR approved by TSG RAN#13

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-010636	25.133	184		Rel-5	Addition of Requirements and Test Case for CPCH	B	4.1.0	5.0.0	TEI5

Table B.10: Release 5 CRs approved by TSG RAN#14

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-010782	25.133	189		Rel-5	S-criteria evaluation in CELL_FACH state	A	5.0.0	5.1.0	TEI
RP-010782	25.133	192		Rel-5	Correction of random access requirements and test case	A	5.0.0	5.1.0	TEI
RP-010782	25.133	195		Rel-5	Correction of RRC connection re-establishment test case	A	5.0.0	5.1.0	TEI
RP-010782	25.133	198		Rel-5	Correction of reference for UTRAN SIRerror measurement	A	5.0.0	5.1.0	TEI
RP-010782	25.133	201		Rel-5	FDD/FDD hard handover test cases	A	5.0.0	5.1.0	TEI
RP-010782	25.133	204		Rel-5	UTRAN GSM reselection	A	5.0.0	5.1.0	TEI
RP-010791	25.133	207		Rel-5	Test conditions for UE Tx power measurement	A	5.0.0	5.1.0	TEI
RP-010791	25.133	210		Rel-5	Correction to general requirements for support of compressed mode	A	5.0.0	5.1.0	TEI
RP-010791	25.133	213		Rel-5	UE Tx Timing rate	A	5.0.0	5.1.0	TEI
RP-010791	25.133	216		Rel-5	Requirements and test parameters for UE measurements	A	5.0.0	5.1.0	TEI
RP-010791	25.133	219		Rel-5	Clarifications on requirements for reporting criteria per measurement category	A	5.0.0	5.1.0	TEI
RP-010791	25.133	222		Rel-5	"Inconsistent use of ""sets of cells"" with respect to definition of RRC specs."	A	5.0.0	5.1.0	TEI
RP-010792	25.133	225		Rel-5	UE CPICH measurement capability for inter-frequency FDD.	A	5.0.0	5.1.0	TEI
RP-010792	25.133	228		Rel-5	Definition of identification of a cell and SFN decoding	A	5.0.0	5.1.0	TEI
RP-010792	25.133	231		Rel-5	CELL_FACH measurements for GSM	A	5.0.0	5.1.0	TEI
RP-010792	25.133	234		Rel-5	CELL_DCH measurements for GSM	A	5.0.0	5.1.0	TEI
RP-010787	25.133	238		Rel-5	SFN-SFN observed time difference measurement	A	5.0.0	5.1.0	TEI
RP-010789	25.133	239		Rel-5	UMTS 1800 band addition to TS 25.133v500	B	5.0.0	5.1.0	Rlmlmp18, Rlnlmp19
RP-010790	25.133	240		Rel-5	Active set size limitation for dedicated pilot	B	5.0.0	5.1.0	RANimp-BeamF
RP-010913	25.133	243		Rel-5	Correction to the mapping of UE Rx-Tx time difference type 2	A	5.0.0	5.1.0	TEI

Table B.11: Release 5 CRs approved by TSG RAN#15

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-020039	25.133	246	1	Rel-5	Test description addition to chapter 9.2	F	5.1.0	5.2.0	TEI5
RP-020021	25.133	252	1	Rel-5	FDD/FDD Soft Handover delay test case	A	5.1.0	5.2.0	TEI
RP-020021	25.133	255	1	Rel-5	Inter-frequency hard handover test case	A	5.1.0	5.2.0	TEI
RP-020020	25.133	258		Rel-5	Clarification of measurement period for UTRA Carrier RSSI	A	5.1.0	5.2.0	TEI
RP-020020	25.133	261	1	Rel-5	Mapping of UE Rx-Tx time difference type 1	A	5.1.0	5.2.0	TEI
RP-020021	25.133	264	1	Rel-5	Inter-frequency measurements in CELL_FACH	A	5.1.0	5.2.0	TEI
RP-020022	25.133	270	1	Rel-5	Correction of Cell reselection in CELL_FACH	A	5.1.0	5.2.0	TEI
RP-020021	25.133	279	1	Rel-5	Corrections to RRC connection re-establishment requirement	A	5.1.0	5.2.0	TEI
RP-020021	25.133	282	1	Rel-5	Corrections to RRC connection re-establishment test cases	A	5.1.0	5.2.0	TEI
RP-020021	25.133	285	1	Rel-5	Correction of hard handover test cases	A	5.1.0	5.2.0	TEI
RP-020020	25.133	295	1	Rel-5	FDD inter frequency measurements and test cases	A	5.1.0	5.2.0	TEI
RP-020022	25.133	297	1	Rel-5	UE Tx Timing in soft handover	A	5.1.0	5.2.0	TEI
RP-020022	25.133	302	1	Rel-5	SFN decoding for identification of a new cell	A	5.1.0	5.2.0	TEI
RP-020020	25.133	305		Rel-5	UTRAN GSM Cell Reselection	A	5.1.0	5.2.0	TEI
RP-020022	25.133	311		Rel-5	Correction of power spectral density	A	5.1.0	5.2.0	TEI
RP-020020	25.133	314	1	Rel-5	Inclusion of AMR 2 requirement (Rel-5)	A	5.1.0	5.2.0	TEI
RP-020020	25.133	317		Rel-5	Requirement for Blind HO from UTRAN to GSM (Rel-5)	A	5.1.0	5.2.0	TEI
RP-020022	25.133	327		Rel-5	Corrections to section 9	A	5.1.0	5.2.0	TEI
RP-020022	25.133	330		Rel-5	Correction of Cell Reselection in idle mode test case	A	5.1.0	5.2.0	TEI

Table B.12: Release 5 CRs approved by TSG RAN#16

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-020284	25.133	342	1	Rel-5	GSM measurement test cases	A	5.2.0	5.3.0	TEI
RP-020284	25.133	360		Rel-5	Corrections to FDD-GSM cell re-selection test case	A	5.2.0	5.3.0	TEI
RP-020284	25.133	363	1	Rel-5	Corrections to UTRAN carrier RSSI measurement accuracy requirement	A	5.2.0	5.3.0	TEI
RP-020284	25.133	366		Rel-5	Corrections to cell re-selection test cases	A	5.2.0	5.3.0	TEI
RP-020285	25.133	369		Rel-5	FDD-GSM cell reselection test correction - scenario 1	A	5.2.0	5.3.0	TEI
RP-020303	25.133	376		Rel-5	Wording correction to UTRAN measurements	F	5.2.0	5.3.0	TEI5
RP-020303	25.133	388		Rel-5	Correction to cell re-selection requirements in Cell-FACH state	F	5.2.0	5.3.0	TEI5
RP-020285	25.133	391	1	Rel-5	TFC selection	A	5.2.0	5.3.0	TEI
RP-020285	25.133	394		Rel-5	GSM re-selection	A	5.2.0	5.3.0	TEI
RP-020303	25.133	410	1	Rel-5	Correction of the definition of known cell	F	5.2.0	5.3.0	TEI5
RP-020285	25.133	415		Rel-5	Corrections to FDD-TDD requirements and test cases	A	5.2.0	5.3.0	TEI
RP-020285	25.133	424	1	Rel-5	Definition of out of service	A	5.2.0	5.3.0	TEI

Table B.13: Release 5 CRs approved by TSG RAN#17

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-020487	25.133	430	1	Rel-5	Inclusion of TTI uncertainty in event reporting delays for FDD measurement test cases.	F	5.3.0	5.4.0	TEI5
RP-020475	25.133	436	1	Rel-5	Correction of Identification times in CELL_FACH state for BSIC identification	A	5.3.0	5.4.0	TEI
RP-020475	25.133	448	1	Rel-5	Accuracy requirement of UE Rx-Tx time difference type 2	A	5.3.0	5.4.0	TEI
RP-020475	25.133	451		Rel-5	Correction of CELL_FACH test case	A	5.3.0	5.4.0	TEI
RP-020487	25.133	457	1	Rel-5	Corrections of the tables of valid compressed mode parameters	F	5.3.0	5.4.0	TEI5
RP-020475	25.133	460	1	Rel-5	Correction of SCH side conditions and corrections of test cases	A	5.3.0	5.4.0	TEI
RP-020487	25.133	465	2	Rel-5	Inclusion of AMR WB speech codec requirements	F	5.3.0	5.4.0	TEI5
RP-020481	25.133	467		Rel-5	Completion of FDD-1.28 Mcps TDD	A	5.3.0	5.4.0	LCRTDD-RF
RP-020481	25.133	468		Rel-5	Removal of AMR speech codec requirement	A	5.3.0	5.4.0	TEI4
RP-020529	25.133	471	1	Rel-5	Definition of valid range for Rx-Tx time difference	A	5.3.0	5.4.0	TEI

Table B.14: Release 5 CRs approved by TSG RAN#18

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-020780	25.133	439	1	Rel-5	Correction of interruption time in FDD/FDD Hard Handover	A	5.4.0	5.5.0	TEI
RP-020780	25.133	477		Rel-5	Correction of UE Transmitted Power requirements in case of Compressed Mode gaps	A	5.4.0	5.5.0	TEI
RP-020780	25.133	479	1	Rel-5	Correction of Measurement Occasion Patterns for BSIC Reconfirmation	A	5.4.0	5.5.0	TEI
RP-020780	25.133	481	2	Rel-5	Required Window size for measurements using IPDL	A	5.4.0	5.5.0	TEI
RP-020780	25.133	483	1	Rel-5	UE Timer accuracy	A	5.4.0	5.5.0	TEI
RP-020787	25.133	498	1	Rel-5	Total received power density definition for the BS	A	5.4.0	5.5.0	TEI4
RP-020798	25.133	502	1	Rel-5	CPICH RSCP report mapping	F	5.4.0	5.5.0	TEI5
RP-020780	25.133	506		Rel-5	Correction of UE parameters for Random Access Test	A	5.4.0	5.5.0	TEI

Table B.15: Release 5 CRs approved by TSG RAN#19

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-030027	25.133	512		Rel-5	Correction of interruption time in FDD/TDD Hard Handover	A	5.5.0	5.6.0	TEI
RP-030027	25.133	516		Rel-5	Applicability of Timer T-reselection for 2G cell reselection.	A	5.5.0	5.6.0	TEI
RP-030040	25.133	519		Rel-5	Correction of measurement and reporting capability requirements in CELL_DCH state in case of parallel measurements	F	5.5.0	5.6.0	TEI5
RP-030027	25.133	521		Rel-5	Correction of Hard HO test case	A	5.5.0	5.6.0	TEI
RP-030034	25.133	526		Rel-5	UE rx-tx time difference type 1	A	5.5.0	5.6.0	TEI4
RP-030040	25.133	532		Rel-5	Changes to TFC selection requirements for codec mode switch	F	5.5.0	5.6.0	TEI5
RP-030027	25.133	546		Rel-5	Constant Value in Random Access Test requirements	A	5.5.0	5.6.0	TEI
RP-030031	25.133	550		Rel-5	Correction of UE parameters for Random Access test	A	5.5.0	5.6.0	TEI

Table B.16: Release 5 CRs approved by TSG RAN#20

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-030209	25.133	566	2	Rel-5	UE soft handover delay requirements	A	5.6.0	5.7.0	TEI
RP-030209	25.133	572	1	Rel-5	Correction to CPICH Ec/Io in correct reporting of neighbours in AWGN propagation condition test case	A	5.6.0	5.7.0	TEI
RP-030209	25.133	576		Rel-5	SFN-SFN observed time difference type 1	A	5.6.0	5.7.0	TEI
RP-030209	25.133	579		Rel-5	Correction to CPCH RSCP Test case A.9.1.1	A	5.6.0	5.7.0	TEI
RP-030219	25.133	583		Rel-5	Correction to Observed time difference to GSM cell requirement	F	5.6.0	5.7.0	TEI5
RP-030210	25.133	587		Rel-5	Correction to RRC Re-establishment delay test case in Section A.6.1	A	5.6.0	5.7.0	TEI
RP-030210	25.133	591	1	Rel-5	TGPL limitations for inter-frequency measurements	A	5.6.0	5.7.0	TEI
RP-030210	25.133	601		Rel-5	Correction to SFN-CFN observed time difference	A	5.6.0	5.7.0	TEI

Table B.17: Release 5 CRs approved by TSG RAN#21

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-030420	25.133	605		Rel-5	Accuracy requirement of non-HSDPA transmit carrier power measurement	F	5.7.0	5.8.0	TEI5
RP-030420	25.133	611	1	Rel-5	FDD inter-frequency cell identification	F	5.7.0	5.8.0	TEI5
RP-030540	25.133	615		Rel-5	CELL_DCH to CELL_FACH/CELL_PCH/URA_PCH transition when suitable UTRA cell is not found	A	5.7.0	5.8.0	TEI

Table B.18: Release 5 CRs approved by TSG RAN#22

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Workitem
RP-030602	25.133	617		Rel-5	Clarification on filtering requirements	F	5.8.0	5.9.0	TEI5
RP-030592	25.133	621	1	Rel-5	GSM test case on correct reporting of GSM neighbors	A	5.8.0	5.9.0	TEI
RP-030592	25.133	634		Rel-5	Correction to Random Access test case	A	5.8.0	5.9.0	TEI
RP-030592	25.133	639	1	Rel-5	CPICH Ec/Io relative accuracy	A	5.8.0	5.9.0	TEI

Table B.19: Release 5 CRs approved by TSG RAN#23

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-040037	25.133	648	1	Rel-5	Test case for multipath fading intra-frequency cell identification	F	5.9.0	5.10.0	TEI5
RP-040034	25.133	653	1	Rel-5	Inter system HO from UTRAN FDD to GSM	A	5.9.0	5.10.0	TEI

Table B.20: Release 5 CRs approved by TSG RAN#24

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-040251	25.133	660	2	Rel-5	Clarification of HS-DPCCH in Transport format combination selection requirements	F	5.10.0	5.11.0	HSDPA-RF
RP-040194	25.133	662	1	Rel-5	Correction to UTRA Carrier RSSI measurement tables in test cases	F	5.10.0	5.11.0	TEI5
RP-040194	25.133	664	1	Rel-5	Corrections to Io, Ioc and RSCP levels for testing different frequency bands	F	5.10.0	5.11.0	TEI5
RP-040194	25.133	666	1	Rel-5	Removal of square brackets and other corrections to support T1	F	5.10.0	5.11.0	TEI5
RP-040252	25.133	674	1	Rel-5	Clarification of UE procedure in case of HHO failure	F	5.10.0	5.11.0	TEI5

Table B.21: Release 5 CRs approved by TSG RAN#25

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-040283	25.133	678		Rel-5	Redrafting of alignment of the activation time definition between TS 25.133 and TS 25.331	A	5.11.0	5.12.0	TEI
RP-040283	25.133	684		Rel-5	Removal of Cell_FACH requirements for GSM observed time difference measurement	A	5.11.0	5.12.0	TEI
RP-040286	25.133	688	1	Rel-5	Removal of square brackets from requirements for number of reporting criteria for traffic volume measurements in cell_FACH state	F	5.11.0	5.12.0	TEI5
RP-040286	25.133	691	1	Rel-5	FDD/FDD Hard Handover test case clarification	F	5.11.0	5.12.0	TEI5

Table B.22: Release 5 CRs approved by TSG RAN#26

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-040408	25.133	703		Rel-5	Target Quality on DTCH	F	5.12.0	5.13.0	TEI5
RP-040408	25.133	705		Rel-5	Harmonisation of TS25.133 and TS34.108	F	5.12.0	5.13.0	TEI5

Table B.23: Release 5 CRs approved by TSG RAN#27

RAN Tdoc	Spec	CR	R	Ph	Title	Cat	Curr	New	Work Item
RP-050038	25.133	714		Rel-5	Removal of TGPL2	C	5.13.0	5.14.0	TEI5
RP-050037	25.133	726	2	Rel-5	Correction to DPCH_Ec/Ior level in A.7.1 UE Transmit Timing	A	5.13.0	5.14.0	TEI

Athens, Greece 9 - 13 May 2005

CR-Form-v7

CHANGE REQUEST

⌘ **25.133 CR 751** ⌘ rev ⌘ Current version: **6.9.0** ⌘

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:	⌘ Feature Clean Up: Removal of Compressed mode by puncturing		
Source:	⌘ 3GPP TSG RAN WG4 (Radio)		
Work item code:	⌘ TEI6	Date:	⌘ 16/05/2005
Category:	⌘ C	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories:		Use <u>one</u> 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:	⌘ RAN#27 decision on Feature Clean Up		
Summary of change:	⌘ FDD/TDD test cases, where compressed mode by puncturing is used, are removed as the compressed mode by puncturing feature is removed as a part of the Feature Clean Up.		
	<p style="text-align: center;">Isolated Impact Analysis</p> <p>Functionality removed: Compressed mode by puncturing Isolated impact statement: Since functionality is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.</p>		
Consequences if not approved:	⌘ Introduction of new features and evolution of the existing feature remain slow also in the future.		

Clauses affected:	⌘ A.5.3, A.8.3, A.9.1.8										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table>	Y	N	X		X			X	Other core specifications Test specifications O&M Specifications	⌘ 25.211,25.212,25.214,25.215, 25.331, 25.423, 25.433, 25.101 34.121
Y	N										
X											
X											
	X										
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. 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 <ftp://ftp.3gpp.org/specs/> 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.

A.5.2.2.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 220 ms from the beginning of time period T3.

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

A.5.3 ~~FDD/TDD Handover~~Void

~~A.5.3.1 Test purpose and Environment~~

~~A.5.3.1.1 3.84 Mcps TDD Option~~

~~The purpose of this test is to verify the requirement for the FDD/TDD handover delay in CELL_DCH state reported in section 5.3.2.1.~~

~~The test parameters are given in Table A.5.0CA, A.5.0CB and A.5.0CC below. In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH RSCP of the best cell on the unused frequency shall be reported together with Event 2C reporting. 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 message 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. The RRC procedure delay is defined [16].~~

~~The UL DPCH in cell 2 shall be transmitted in timeslot 10.~~

Table A.5.0CA: General test parameters for FDD/TDD handover

Parameter	Unit	Value	Comment
DCH parameters		DL and UL Reference-Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and in TS 25.102 section A.2
Power Control		On	
Target quality value on-DTCH	BLER	0.01	
Compressed mode		A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active cell	Cell 1	FDD cell
	Neighbour cell	Cell 2	TDD cell
Final condition	Active cell	Cell 2	TDD cell
Q	dB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis	dB	0	Hysteresis parameter for event 2C
Time to Trigger	ms	0	
Threshold non-used frequency	dBm	-75	Applicable for Event 2C
Filter coefficient		0	
Monitored cell list size		6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T_{SI}	s	4.28	The value shall be used for all cells in the test
T1	s	5	
T2	s	15	
T3	s	4	

Table A.5.0CB: Cell 1 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 1	
		T1, T2	T3
UTRA RF Channel Number		Channel 1	
CPICH_Ec/Ior	dB	-10	
P-CCPCH_Ec/Ior	dB	-12	
SCH_Ec/Ior	dB	-12	
PICH_Ec/Ior	dB	-15	
DPCH_Ec/Ior	dB	Note 1	n.a.
OCNS_Ec/Ior	dB	Note 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_{oc} .			

Table A.5.0CC: Cell 2 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 2								
		0			2			8		
DL timeslot number		T1	T2	T3	T1	T2	T3	T1	T2	T3
UTRA RF Channel Number		Channel 2								
P-CCPCH_Ec/Ior	dB	-3			n.a.			n.a.		
PICH_Ec/Ior	dB	n.a.			n.a.			-3		
SCH_Ec/Ior	dB	-9			n.a.			-9		
SCH_t_offset	dB	5			n.a.			5		
DPCH_Ec/Ior	dB	n.a.			n.a.			Note 1		
OCNS_Ec/Ior	dB	-3,12			0			Note 2		
\hat{I}_{or}/I_{oc}	dB	-Inf	6	-Inf	6	-Inf	6	-Inf	6	-Inf
P-CCPCH RSCP	dBm	-Inf	-67	n.a.			n.a.			
I_{oc}	dBm/3.84 MHz	-70								
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_{oc} .										
Note that the transmit energy per PN chip for the SCH is averaged over the 256 chip duration when the SCH is present in the time slot.										

A.5.3.1.2 1.28 Mcps TDD Option

The purpose of this test is to verify the requirement for the FDD/TDD handover delay in CELL_DCH state reported in section 5.3.2.1.

The test parameters are given in Table A.5.0CD, A.5.0CE and A.5.0CF below. In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH RSCP of the best cell on the unused frequency shall be reported together with Event 2C reporting. 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 message with activation time at the beginning of T3 with a new active cell, cell 2. The Physical Channel reconfiguration message shall be sent to the UE such that the delay between the end of the last received TTI containing the message and the beginning of T3 is at least equal to the RRC procedure delay as defined in [16].

The UL DPCH in cell 2 shall be transmitted in timeslot 10.

Table A.5.0CD: General test parameters for FDD/TDD handover

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and in TS 25.102 section A.2
Power Control			On	
Target quality value on DTCH		BLER	0.04	
Compressed mode			A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active cell		Cell 1	FDD cell
	Neighbour cell		Cell 2	TDD cell
Final condition	Active cell		Cell 2	TDD cell
Θ		DB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis		DB	0	Hysteresis parameter for event 2C
Time to Trigger		Ms	0	
Threshold non-used frequency		DBm	-75	Applicable for Event 2C
Filter coefficient			0	
Monitored cell list size			6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T_{SI}		S	1.28	The value shall be used for all cells in the test
$T1$		S	5	
$T2$		S	15	
$T3$		S	4	

Table A.5.0CE: Cell 1 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 1	
		T1, T2	T3
UTRA RF Channel Number		Channel 1	
CPICH_Ec/I _{or}	dB	-10	
P-CCPCH_Ec/I _{or}	dB	-12	
SCH_Ec/I _{or}	dB	-12	
PICH_Ec/I _{or}	dB	-15	
DPCH_Ec/I _{or}	dB	Note 1	n.a.
OCNS_Ec/I _{or}	dB	Note 2	
\hat{I}_{or}/I_{oc}	dB	0	
I_{oc}	dBm/3.84 MHz	-70	
CPICH_Ec/I _e	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} .			

Table A.5.0CF: Cell 2 specific test parameters for FDD/TDD handover

Parameter	Unit	Cell 2					
		0			DwPTS		
DL-timeslot number		T1	T2	T3	T1	T2	T3
UTRA-RF-Channel-Number		Channel 2					
P-CCPCH_Ec/Ior	dB	-3					
DwPCH_Ec/Ior	dB				0		
DPCH_Ec/Ior	dB						Note 1
OCNS_Ec/Ior	dB	-3					Note 2
\hat{I}_{or}/I_{oc}	dB	-Inf	6		-Inf	6	
P-CCPCH RSCP	dBm	-Inf	-67				
I_{oc}	dBm/1.28 MHz	-70					
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 Ior.							

A.5.3.2 Test Requirements

The UE shall start to transmit the UL DPCH to Cell 2 less than 110 ms from the beginning of time period T3.

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

A.5.4 Inter-system Handover from UTRAN FDD to GSM

A.5.4.1 Test Purpose and Environment

This test is to verify the requirement for the UTRAN to GSM cell handover delay reported in section 5.4.2.1.

The test parameters are given in Table A.5.0D, A.5.0E and A.5.0F below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 3C shall be used. 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.

The UTRAN shall send a Handover from UTRAN command with activation time "now" with a new active cell, cell 2. In the GSM Handover command contained in that message, the IE starting time shall not be included. The RRC HANDOVER FROM UTRAN COMMAND message shall be sent to the UE. The start of T3 is defined as the end of last TTI containing the HO command.

The requirements are also applicable for a UE not requiring compressed mode, in which case no compressed mode pattern should be sent for the parameters specified in table A5.0D

Table A.5.0D: General test parameters for Correct reporting of GSM neighbours in AWGN propagation condition

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	
Target quality value on DTCH	BLER	0.01	
Compressed mode patterns - GSM carrier RSSI measurement - GSM Initial BSIC identification - GSM BSIC re-confirmation		DL Compressed mode reference pattern 2 in Set 2 Pattern 2 Pattern 2	Only applicable for UE requiring compressed mode patterns As specified in table A.22 TS 25.101 section A.5 As specified in section 8.1.2.5.2.1 table 8.7. As specified in section 8.1.2.5.2.2 table 8.8.
Active cell		Cell 1	
Inter-RAT measurement quantity		GSM Carrier RSSI	
BSIC verification required		Required	
Threshold other system	dBm	-80	Absolute GSM carrier RSSI threshold for event 3B and 3C.
Hysteresis	dB	0	
Time to Trigger	ms	0	
Filter coefficient		0	
Monitored cell list size		24 FDD neighbours on Channel 1 6 GSM neighbours including ARFCN 1	Measurement control information is sent before the compressed mode patterns starts.
N Identify abort		66	Taken from table 8.7.
T Reconfirm abort		5.5	Based on table 8.8 and requirement specified in section 10.3.6.33 of TS 25.331.
T1	s	20	
T2	s	5	
T3	s	1	

Table A.5.0E: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 1)

Parameter	Unit	Cell 1 (UTRA)
		T1, T2, T3
CPICH_Ec/lor	dB	-10
PCCPCH_Ec/lor	dB	-12
SCH_Ec/lor	dB	-12
PICH_Ec/lor	dB	-15
DCH_Ec/lor	dB	Note 1
OCNS_Ec/lor	dB	Note 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 power from the cell to be equal to I_{or} .		

Table A.5.0F: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 2)

Parameter	Unit	Cell 2 (GSM)	
		T1	T2, T3
Absolute RF Channel Number		ARFCN 1	
RXLEV	dBm	-85	-75

*****NEXT MODIFIED SECTIONS*****

A.8.2.3.2 Test Requirements

- a) The UE shall send one Event 2C triggered measurement report, with a measurement reporting delay less than 4.4 seconds from the beginning of time period T2.
- b) The UE shall not send any measurement reports, as long as the reporting criteria are not fulfilled.

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

A.8.3 ~~TDD measurements~~ Void

~~A.8.3.1 Correct reporting of TDD neighbours in AWGN propagation condition~~

~~A.8.3.1.1 Test Purpose and Environment~~

~~A.8.3.1.1.1 3.84 Mcps TDD Option~~

~~The purpose of this test is to verify that the UE makes correct reporting of events when measuring on UTRA TDD cells. This test will partly verify the requirements in section 8.1.2 and 9.1.~~

~~The test parameters are given in Table A.8.13, A.8.14 and A.14A below. The test consists of two successive time periods, with time duration of T1 and T2 respectively. Two cells shall be present in the test, cell 1 being the serving UTRA FDD cell and cell 2 being a UTRA TDD neighbour cell.~~

~~In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH RSCP 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.~~

~~The TTI of the uplink DCCH shall be 20ms.~~

Table A.8.13: General test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

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	
Target quality value on-DTCH	BLER	0.01	
Compressed mode		A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active-cell	Cell 1	FDD-cell
	Neighbour-cell	Cell 2	TDD-cell
Final condition	Active-cell	Cell 1	FDD-cell
Δ	dB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis	dB	0	Hysteresis parameter for event 2C
Time to Trigger	ms	0	
Threshold non-used-frequency	dBm	-71	Applicable for Event 2C
Filter coefficient		0	
Monitored cell list size		6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T1	s	15	
T2	s	10	

Table A.8.14: Cell 1 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 1
		T1, T2
UTRA RF Channel-Number		Channel 1
CPICH_Ec/I _{or}	dB	-10
P-CCPCH_Ec/I _{or}	dB	-12
SCH_Ec/I _{or}	dB	-12
PICH_Ec/I _{or}	dB	-15
DPCH_Ec/I _{or}	dB	Note 1
OCNS_Ec/I _{or}	dB	Note 2
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84-MHz	-70
CPICH_Ec/I _o	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} .		

Table A.5.14A: Cell 2 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 2			
		0		8	
DL timeslot number		T1	T2	T1	T2
UTRA RF Channel Number		Channel 2			
P-CCPCH_Ec/Ior	dB	-3		n.a.	
PICH_Ec/Ior	dB	n.a.		-3	
SCH_Ec/Ior	dB	-9			
SCH_t_offset	dB	10			
OCNS_Ec/Ior	dB	-3.12			
P-CCPCH-RSCP	dBm	-75	-67	n.a.	n.a.
\hat{I}_{or}/I_{oc}	dB	-2	6	-2	6
I_{oc}	dBm/3.84-MHz	-70			
Propagation Condition		AWGN			
Note that the transmit energy per PN chip for the SCH is averaged over the 256 chip duration when the SCH is present in the time slot.					

A.8.3.1.1.2 — 1.28 Mcps TDD Option

The purpose of this test is to verify that the UE makes correct reporting of events when measuring on UTRA TDD cells. This test will partly verify the requirements in section 8.1.2. and 9.1.

The test parameters are given in Table A.8.14B, A.8.14C and A.8.14D below. The test consists of two successive time periods, with time duration of T1 and T2 respectively. Two cells shall be present in the test, cell 1 being the serving UTRA FDD cell and cell 2 being a UTRA TDD neighbour cell.

In the measurement control information it is indicated to the UE that event triggered reporting with Event 2C shall be used. The P-CCPCH-RSCP 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.

The TTI of the uplink DCCH shall be 20ms.

Table A.8.14B: General test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

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	
Target quality value on DTCH	BLER	0.01	
Compressed mode		A.22 set 3	As specified in TS25.101 section A.5
Initial conditions	Active cell	Cell 1	FDD cell
	Neighbour cell	Cell 2	TDD cell
Final condition	Active cell	Cell 1	FDD cell
Θ	dB	0	Cell individual offset. This value shall be used for all cells in the test.
Hysteresis	dB	0	Hysteresis parameter for event 2C
Time to Trigger	ms	0	
Threshold non-used frequency	dBm	-74	Applicable for Event 2C
Filter coefficient		0	
Monitored cell list size		6 FDD neighbours on Channel 1 6 TDD neighbours on Channel 2	
T1	s	15	
T2	s	10	

Table A.8.14C: Cell 1 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 1
		T1, T2
UTRA RF Channel Number		Channel 1
CPICH_Ec/I _{oc}	dB	-10
P-CCPCH_Ec/I _{oc}	dB	-12
SCH_Ec/I _{oc}	dB	-12
PICH_Ec/I _{oc}	dB	-15
DPCH_Ec/I _{oc}	dB	Note 1
OCNS_Ec/I _{oc}	dB	Note 2
\hat{I}_{or}/I_{oc}	dB	0
I_{oc}	dBm/3.84-MHz	-70
CPICH_Ec/I _o	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 _{oc} .		

Table A.8.14D: Cell 2 specific test parameters for Correct reporting of TDD neighbours in AWGN propagation condition

Parameter	Unit	Cell 2			
		0		DwPTS	
DL timeslot number		T1	T2	T1	T2
UTRA RF Channel Number		Channel 2			
P-CCPCH_Ec/I _{oc}	dB	-3			
DwPCH_Ec/I _{oc}	dB			0	
OCNS_Ec/I _{oc}	dB	-3			
P-CCPCH_RSCP	dBm	-75	-67		
\hat{I}_{or}/I_{oc}	dB	-2	6	-2	6
I_{oc}	dBm/1.28-MHz	-70			
Propagation Condition		AWGN			

A.8.3.1.2 Test Requirements

The UE shall send one Event 2C triggered measurement report for Cell 2 with a measurement reporting delay less than 8.8 s from the beginning of time period T2.

The UE shall not send event triggered measurement reports, as long as the reporting criteria are not fulfilled.

The rate of events correctly reported during repeated tests shall be at least 90%.

A.8.4 GSM measurements

A.8.4.1 Correct reporting of GSM neighbours in AWGN propagation condition

A.8.4.1.1 Test Purpose and Environment

The purpose of these tests is to verify that the UE makes correct reporting of an event when doing inter-RAT GSM measurements. The test will partly verify the requirements in section 8.1.2.5. The requirements are also applicable for a

UE not requiring compressed mode, in which case no compressed mode pattern should be sent for the parameters specified in table A8.15.

The test consists of three successive time periods, with a time duration T1, T2 and T3. The test parameters are given in tables A.8.15, A.8.16 and A.8.17 below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 3B and 3C shall be used.

*****NEXT MODIFIED SECTIONS*****

A.9.1.7.2 Test Requirements

Note: Requirements will be added when the requirement scenario is defined.

A.9.1.8 P-CCPCH RSCP Void

A.9.1.8.1 Test Purpose and Environment

The purpose of this test is to verify that the P-CCPCH RSCP measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.11 and applies to UE supporting this capability.

A.9.1.8.1.1 Inter frequency test parameters

A.9.1.8.1.1.1 3.84 Mcps TDD Option

In this case both cells are on different frequencies and compressed mode as specified in TS 25.101 section A.5, set 3 of table A.22, is applied. Cell 1 is a UTRA FDD cell and cell 2 is a UTRA TDD cell.

P-CCPCH RSCP inter frequency absolute accuracy requirements are tested by using test parameters in Table A.9.13.

Table A.9.13: P-CCPCH RSCP inter frequency test parameters

Parameter	Unit	Test 1		Test 2	
		Cell 1	Cell 2	Cell 1	Cell 2
DL timeslot number		n.a.	0 8	n.a.	0 8
UTRA RF Channel number		Channel 2	Channel 1	Channel 2	Channel 1
CPICH_Ec/Ior	dB	-10	n.a.	-10	n.a.
P-CCPCH_Ec/Ior	dB	-12	-3 n.a.	-12	-3 n.a.
SCH_Ec/Ior	dB	-12	-9	-12	-9
SCH_toffset		n.a.	5	n.a.	5
PICH_Ec/Ior	dB	-15	n.a. -3	-15	n.a. -3
DPCH_Ec/Ior	dB	-15	n.a.	-15	n.a.
OCNS_Ec/Ior	dB	-1.11	-3.12	-1.11	-3.12
Io	dBm/3.84-MHz	-60	-57.7	-84	-84.7
Ior/Io	dB	9.54	7	0	3
P-CCPCH RSCP, Note 1	dBm	n.a.	-53.7 n.a.	n.a.	-84.7 n.a.
CPICH RSCP, Note 1	dBm	-60.46	n.a.	-94	n.a.
Io, Note 1	dBm/3.84-MHz	-50	-50	-84	-80
Propagation condition	-	AWGN		AWGN	
Note 1: P-CCPCH RSCP, CPICH RSCP and Io levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.					
Note that the transmit energy per PN chip for the SCH is averaged over the 256 chip duration when the SCH is present in the time slot.					
Tests shall be done sequentially. Test 1 shall be done first. After test 1 has been executed, test parameters for test 2 shall be set within 5 seconds so that the UE does not lose the Cell 2 in between the test.					

A.9.1.8.1.1.2 1.28 Mcps TDD Option

In this case both cells are on different frequencies and compressed mode as specified in TS 25.101 section A.5, set 3 of table A.22, is applied. Cell 1 is a UTRA FDD cell and cell 2 is a UTRA TDD cell.

P-CCPCH RSCP inter frequency absolute accuracy requirements are tested by using test parameters in Table A.9.14.

Table A.9.14: P-CCPCH RSCP inter frequency test parameters

Parameter	Unit	Test 1			Test 2		
		Cell 1	Cell 2		Cell 1	Cell 2	
DL timeslot number		n.a.	0	DwPTS	n.a.	0	DwPTS
UTRA RF Channel number		Channel 2	Channel 1		Channel 2	Channel 1	
CPICH_Ec/Ior	dB	-10	n.a.		-10	n.a.	
P-CCPCH_Ec/Ior	dB	-12	-3		-12	-3	
DwPCH_Ec/Ior	dB	-12		0	-12		0
PICH_Ec/Ior	dB	-15	n.a.	n.a.	-15	n.a.	n.a.
DPCH_Ec/Ior	dB	-15	n.a.	n.a.	-15	n.a.	n.a.
OCNS_Ec/Ior	dB	-1.11	-3		-1.11	-3	
Ior		-60 dBm/ 3.84 MHz	-57.7 dBm/1.28 MHz		-84 dBm/ 3.84 MHz	-84.7 dBm/1.28 MHz	
Ior/Ior	dB	9.54	7		0	3	
P-CCPCH RSCP, Note 1	dBm	n.a.	-53.7		n.a.	-84.7	
CPICH RSCP, Note 1	dBm	-60.46	n.a.		-94	n.a.	
Ior, Note 1		-50 dBm/ 3.84 MHz	-50 dBm/1.28 MHz		-81 dBm/ 3.84 MHz	-80 dBm/1.28 MHz	
Propagation condition	-	AWGN			AWGN		
Note 1: P-CCPCH RSCP, CPICH RSCP and Ior levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.							
Tests shall be done sequentially. Test 1 shall be done first. After test 1 has been executed, test parameters for test 2 shall be set within 5 seconds so that the UE does not lose the Cell 2 in between the test.							

A.9.1.8.2 Test Requirements

The P-CCPCH RSCP measurement accuracy shall meet the requirements in section 9.1.11.

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

Annex B (informative): Change History