RP-040034

TSG RAN Meeting #23 Phoenix, US, 10 - 12 March 2004

TitleCRs (R99 and Rel-4/Rel-5/Rel-6 Category A) to TS25.133 on "Inter system HO
from UTRAN FDD to GSM"SourceTSG RAN WG4Agenda Item7.5.3

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-040156	25.133	651	1	F	R99	3.16.0	Inter system HO from UTRAN FDD to GSM	TEI
R4-040157	25.133	652	1	Α	Rel-4	4.11.0	Inter system HO from UTRAN FDD to GSM	TEI
R4-040158	25.133	653	1	Α	Rel-5	5.9.0	Inter system HO from UTRAN FDD to GSM	TEI
R4-040159	25.133	654	1	Α	Rel-6	6.4.0	Inter system HO from UTRAN FDD to GSM	TEI

R4-040156

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		(CHANGE	REQ	UE	ST				CR-Form-v7
æ	25.13	3 CR	651	жrev	1	Ħ	Current ver	rsion:	3.16.0	ж
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <i>X</i> symbols.										
Proposed change affects: UICC apps ME X Radio Access Network Core Network									etwork	
Title:	ж <mark>Inter-sy</mark>	stem Ha	ndover from U	TRAN FE	D to	GSN	Л			
Source:	<mark>೫ RAN W</mark>	G4								
Work item code:	ដ TEI						Date: 8	€ <mark>23</mark>	/02/2004	
Category:	F (C A (c B (a C (f D (e Detailed e	orrection) orrespond ddition of unctional ditorial m explanatio	ds to a correctio	n in an eai feature)		elease	2	of the f (GS (Rel (Rel (Rel (Rel (Rel (Rel	99 ollowing rel M Phase 2) lease 1996) lease 1997) lease 1998) lease 4) lease 4) lease 5) lease 6)	
Reason for chan Summary of cha	mea inst criti tran	asuremen ant 50ms cal period sition. defining	the T2-T3-tra	1,T2,T3 n boundary hich is fro	nust l y, in o om th be th	be se order le En	etup at the b to avoid tim d of HO cor d of the HO	eginn ling u nman comn	ing of the t ncertainty d to T2-T3 nand, the	at the

Consequences if भ not approved:	An unnecessary measurement problem remains existing. The test may not be implemented correctly.
	Isolated impact analysis: Does not change UE implementation. The CR enables an unambiguous test of requirements.

Clauses affected:	ж <mark>А.5.4</mark>	
Other specs affected:	YNXOther core specificationsXTest specifications	策 34.121

		X O&M Specifications	
Other comments:	ж		
		Equivalent CRs in other Releases: CR6	52r1 cat. A to 25.133 v4.11.0, CR653r1
		cat. A to 25.133 v5.9.0, CR654r1 cat. A	to 25.133 v6.4.0

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. 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].

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement Channel	As specified in TS 25.101 section A.3.1
		12.2 kbps	
Power Control		On	
Target quality value	BLER	0.01	
on DTCH			
Compressed mode			Only applicable for UE requiring
patterns			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		pattern 2 in Set 2	Section A.5
identification		Pattern 2	As specified in section 8.1.2.5.2.1 table 8.7.
- GSM BSIC re-			0.7.
confirmation		Pattern 2	As specified in section 8.1.2.5.2.2 table 8.8.
Active cell		Cell 1	
Inter-RAT		GSM Carrier RSSI	
measurement			
quantity			
BSIC verification		Required	
required			
Threshold other	dBm	-80	Absolute GSM carrier RSSI threshold
system			for event 3B and 3C.
Hysteresis	dB	0	
Time to Trigger	ms	0	
Filter coefficient		0	
Monitored cell list		24 FDD neighbours on Channel 1	Measurement control information is
size		6 GSM neighbours including ARFCN 1	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	
Т3	S	5	

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	dB	-13				
Propagation Condition		AWGN				
Note 1:The DPCH level is controlled by the power control loopNote 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.5.0E: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 1)

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

A.5.4.2

Test Requirements

The UE shall begin to send access bursts on the new DCCH of the target cell less than 90_{40} ms from the beginning of time period T3.

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			(CHANGE	REC	QUE	ST			C	R-Form-v7
ж	25	5 <mark>.133</mark>	CR	652	жrev	1	Ħ	Current vers	^{ion:} 4.1	1.0	ж
For <u>HELP</u> of	n using	this for	m, see	bottom of this	s page o	r look	at the	e pop-up text	over the	ж sym	bols.
Proposed chang	Proposed change affects: UICC apps# ME X Radio Access Network Core Network									work	
Title:	策 <mark>Int</mark>	er-syst	em Ha	ndover from U	TRAN F	DD to	GSN	Λ			
Source:	ដ <mark>R/</mark>	<mark>AN WG</mark>	4								
Work item code	: 🕱 🛛 TE	1						<i>Date:</i> ೫	23/02/2	004	
Category:	Deta	F (con A (con B (add C (fun D (edi ailed exp	rection) respond lition of ctional torial m planatio	owing categories ds to a correctio feature), modification of f odification) ns of the above <u>FR 21.900</u> .	n in an e eature)		elease	e) R96 R97 R98 R99		ase 2) 1996) 1997) 1998) 1999) 4) 5)	ises:
Reason for char Summary of cha	-	measu instan critica transit	uremei t 50ms l perio tion. efining cessa	unnecessary n nt sequence T s prior to a TTI d of the test, w the T2-T3-tran ry measureme be measured.	1,T2,T3 bounda hich is f	must I ry, in c rom th o be th	be se order le En	to avoid timir d of HO com d of the HO c	ginning of ng uncerta nand to 1 ommand,	the tea ainty at 2-T3 the	the

 Consequences if not approved:
 # An unnecessary measurement problem remains existing. The test may not be implemented correctly.

 Isolated impact analysis:
 Does not change UE implementation.

 The CR enables an unambiguous test of requirements.

Clauses affected:	ж	A.:	5.4				
		V	NI				
Other specs	ж	T	N	Other core specifications	ж		
affected:	00	Χ	-	Test specifications		34.121	
-							

		X O&M Specifications	
Other comments:	ж		
other comments.	00	Equivalent CRs in other Releases: CR6	51r1 cat. F to 25.133 v3.16.0, CR653r1
		cat. A to 25.133 v5.9.0, CR654r1 cat. A	

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, 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].

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement Channel	As specified in TS 25.101 section A.3.1
		12.2 kbps	
Power Control		On	
Target quality value	BLER	0.01	
on DTCH			
Compressed mode			Only applicable for UE requiring
patterns			compressed mode patterns
- GSM carrier RSSI			
measurement		DL Compressed mode reference	As specified in table A.22 TS 25.101
		pattern 2 in Set 2	section A.5
- GSM Initial BSIC			
identification		Pattern 2	As specified in section 8.1.2.5.2.1 table 8.7.
- GSM BSIC re-			
confirmation		Pattern 2	As specified in section 8.1.2.5.2.2 table 8.8.
Active cell		Cell 1	
Inter-RAT		GSM Carrier RSSI	
measurement			
quantity			
BSIC verification		Required	
required			
Threshold other	dBm	-80	Absolute GSM carrier RSSI threshold
system			for event 3B and 3C.
Hysteresis	dB	0	
Time to Trigger	ms	0	
Filter coefficient		0	
Monitored cell list		24 FDD neighbours on Channel 1	Measurement control information is
size		6 GSM neighbours including ARFCN 1	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	
Т3	S	5	

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	_Ec ho dB -13			
Propagation Condition		AWGN		
Note 1:The DPCH level is controlled by the power control loopNote 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.5.0E: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 1)

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

A.5.4.2

Test Requirements

The UE shall begin to send access bursts on the new DCCH of the target cell less than 90_{40} ms from the beginning of time period T3.

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						CR-Form-v7					
ж	25.	. <mark>133</mark>	CR	653	жrev	1	Ħ	Current vers	ion:	5.9.0	ж
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Proposed chang	ge affect	ts: l	JICC a	pps#	MEX	Rad	dio A	ccess Networ	k	Core Ne	etwork
Title:	策 <mark>Inte</mark>	er-syst	<mark>em Ha</mark>	ndover from U	TRAN F	D to	GSN	Л			
Source:	ដ <mark>RA</mark>	N WG	4								
Work item code	:ສ <mark>TEI</mark>							<i>Date:</i> ೫	23/	02/2004	
Category:	Deta	F (con A (cor B (add C (fun D (edi iled exp	rection) respond dition of ctional torial m planatio	owing categories ds to a correctio feature), modification of f odification) ns of the above <u>FR 21.900</u> .	n in an eal Teature)		elease	Release: ₩ Use <u>one</u> of 2 9) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	the fo (GSN (Rele (Rele (Rele (Rele (Rele		pases:
Reason for char Summary of cha		meas instan critica transi By d unne	urement t 50ms l period tion. efining ecessal	unnecessary n nt sequence T s prior to a TTI d of the test, w the T2-T3-tran ry measureme be measured.	1,T2,T3 n boundary hich is fro nsition to nt proble	hust I y, in o om th be th	be se order le En	to avoid timir d of HO com d of the HO c	ginnir ng un mand omm	ng of the to certainty a I to T2-T3 and, the	at the

Consequences if not approved:	# An unnecessary measurement problem remains existing. The test may not be implemented correctly.
	Isolated impact analysis: Does not change UE implementation. The CR enables an unambiguous test of requirements.

Clauses affected:	Ж <mark>А.5.4</mark>			
Other specs affected:	¥N ₩ <mark>X</mark>	Other core specifications Test specifications	ж	34.121

		X O&M Specifications
Other comments:	ж	
		Equivalent CRs in other Releases: CR651r1 cat. F to 25.133 v3.16.0, CR652r1
		cat. A to 25.133 v4.11.0, CR654r1 cat. A to 25.133 v6.4.0

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. 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].

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement Channel	As specified in TS 25.101 section A.3.1
		12.2 kbps	
Power Control		On	
Target quality value	BLER	0.01	
on DTCH			
Compressed mode			Only applicable for UE requiring
patterns			compressed mode patterns
- GSM carrier RSSI			
measurement		DL Compressed mode reference	As specified in table A.22 TS 25.101
		pattern 2 in Set 2	section A.5
- GSM Initial BSIC			
identification		Pattern 2	As specified in section 8.1.2.5.2.1 table 8.7.
- GSM BSIC re-			
confirmation		Pattern 2	As specified in section 8.1.2.5.2.2 table 8.8.
Active cell		Cell 1	
Inter-RAT		GSM Carrier RSSI	
measurement			
quantity			
BSIC verification		Required	
required			
Threshold other	dBm	-80	Absolute GSM carrier RSSI threshold
system			for event 3B and 3C.
Hysteresis	dB	0	
Time to Trigger	ms	0	
Filter coefficient		0	
Monitored cell list		24 FDD neighbours on Channel 1	Measurement control information is
size		6 GSM neighbours including ARFCN 1	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	
Т3	S	5	

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	_Ec ho dB -13			
Propagation Condition		AWGN		
Note 1:The DPCH level is controlled by the power control loopNote 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.5.0E: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 1)

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

A.5.4.2

Test Requirements

The UE shall begin to send access bursts on the new DCCH of the target cell less than 90_{40} ms from the beginning of time period T3.

R4-040159

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		С	HANGE	REQ	UE	ST			CR-Form-v7
¥	25.133	CR <mark>6</mark>	<mark>654</mark>	# rev	1	ж	Current versi	^{ion:} 6.4.0	<mark>ж</mark>
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Proposed change a		•	ops#		_		cess Networ	K Core	Network
лле: њ	Inter-syst	em Han	dover from UT	RAN FU		G21V	I		
Source: ೫	RAN WG	4							
Work item code: ℜ	TEI						Date: ೫	23/02/2004	l .
Category: ⊮	F (con A (cor B (ada C (fun D (edi	rection) responds dition of fo ctional mo torial mo olanation	nodification of fea dification) s of the above c	ature)		lease	2 R96 R97 R98 R99 Rel-4 Rel-5	Rel-6 the following r (GSM Phase (Release 199 (Release 199 (Release 199 (Release 199 (Release 4) (Release 5) (Release 6)	2) 6) 7) 8)
Reason for change	meas instan critica transi	urement It 50ms Il period tion.	t sequence T1, prior to a TTI b of the test, wh	T2,T3 m oundary ich is fro	nust b /, in o om the	e se rder e Enc	tup at the beg to avoid timir d of HO comr	ginning of the ng uncertaint mand to T2-	y at the r3
Summary of chang	unne	ecessary	he T2-T3-trans / measurement e measured.						

Consequences if not approved:	# An unnecessary measurement problem remains existing. The test may not be implemented correctly.
	Isolated impact analysis: Does not change UE implementation. The CR enables an unambiguous test of requirements.

Clauses affected:	ж <mark>А.5.4</mark>	
Other specs affected:	YNXOther core specificationsXTest specifications	策 34.121

	X O&M Specifications
Other comments:	ж
	Equivalent CRs in other Releases: CR651r1 cat. F to 25.133 v3.16.0, CR652r1 cat. A to 25.133 v4.11.0, CR653r1 cat. A to 25.133 v5.9.0

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, 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].

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement Channel	As specified in TS 25.101 section A.3.1
		12.2 kbps	
Power Control		On	
Target quality value	BLER	0.01	
on DTCH			
Compressed mode			Only applicable for UE requiring
patterns			compressed mode patterns
- GSM carrier RSSI			
measurement		DL Compressed mode reference	As specified in table A.22 TS 25.101
		pattern 2 in Set 2	section A.5
- GSM Initial BSIC			
identification		Pattern 2	As specified in section 8.1.2.5.2.1 table 8.7.
- GSM BSIC re-			
confirmation		Pattern 2	As specified in section 8.1.2.5.2.2 table 8.8.
Active cell		Cell 1	
Inter-RAT		GSM Carrier RSSI	
measurement			
quantity			
BSIC verification		Required	
required			
Threshold other	dBm	-80	Absolute GSM carrier RSSI threshold
system			for event 3B and 3C.
Hysteresis	dB	0	
Time to Trigger	ms	0	
Filter coefficient		0	
Monitored cell list		24 FDD neighbours on Channel 1	Measurement control information is
size		6 GSM neighbours including ARFCN 1	sent before the compressed mode
			patterns starts.
N Identify abort		66	Taken from table 8.7.
T Reconfirm abort	1	5.5	Taken from table 8.8.
T1	S	20	
T2	S	5	
Т3	S	5	

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	dB	-13			
Propagation Condition		AWGN			
Note 1:The DPCH level is controlled by the power control loopNote 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.5.0E: Cell Specific Parameters for Handover UTRAN to GSM cell case (cell 1)

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

A.5.4.2

Test Requirements

The UE shall begin to send access bursts on the new DCCH of the target cell less than 90_{40} ms from the beginning of time period T3.