

Quebec, Canada, 1 - 3 June 2005

Title CRs to 34.123-1 for approval Batch 5

Source 3GPP TSG RAN WG5 (Testing)

Agenda Item 7.6.5

WG Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R5-050712	34.123-1	1219	-	F	Rel-5	5.11.1	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.32.	TEI
R5-050713	34.123-1	1220	-	F	Rel-5	5.11.1	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.33.	TEI
R5-050714	34.123-1	1221	-	F	Rel-5	5.11.1	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.34.	TEI
R5-050715	34.123-1	1222	-	F	Rel-5	5.11.1	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.35.	TEI
R5-050716	34.123-1	1223	-	F	Rel-5	5.11.1	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.36.	TEI
R5-050717	34.123-1	1224	-	F	Rel-5	5.11.1	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.37.	TEI
R5-050776	34.123-1	1225	-	F	Rel-5	5.11.1	Correction to GCF WI-014 RRC HSDPA test case 8.2.1.28	TEI
R5-050580	34.123-1	1226	-	F	Rel-5	5.11.1	CR to 34.123-1Rel-5: Message Content Correction for TDD in 8.4.1.24	TEI
R5-050581	34.123-1	1227	-	F	Rel-5	5.11.1	CR to 34.123-1Rel-5: Message Content Correction for TDD in 8.4.1.25	TEI
R5-050582	34.123-1	1228	-	F	Rel-5	5.11.1	CR to 34.123-1Rel-5: Message Content Correction for TDD in 8.4.1.26	TEI
R5-050925	34.123-1	1229	-	F	Rel-5	5.11.1	CR to 34.123-1Rel-5: To Delete Test Case 7.1.2.2.3 of LCR TDD	TEI
R5-050688	34.123-1	1230	-	F	Rel-5	5.11.1	Correction of 8_4_1_2A for TDD	TEI
R5-050689	34.123-1	1231	-	F	Rel-5	5.11.1	Correction to MAC test cases	TEI

WG Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
							7.1.3.2 to add HCR TDD	
R5-050691	34.123-1	1232	-	F	Rel-5	5.11.1	Correction to RRC test case 8.4.1.1A (TDD)	TEI
R5-050693	34.123-1	1233	-	F	Rel-5	5.11.1	Correction to RRC test case 8.4.1.5A (TDD)	TEI
R5-050694	34.123-1	1234	-	B	Rel-5	5.11.1	8.2.2.43 RRC test case on seamless SRNS relocation using Radio Bearer Reconfiguration add TDD content	TEI
R5-050695	34.123-1	1235	-	F	Rel-5	5.11.1	Correction to 8.1.8.3 to add TDD to step 2	TEI
R5-050696	34.123-1	1236	-	F	Rel-5	5.11.1	Add TDD to RRC test case 8.3.11.4	TEI
R5-050698	34.123-1	1237	-	F	Rel-5	5.11.1	Correction to RAB test case 18.2.2.34.1	TEI
R5-050699	34.123-1	1238	-	F	Rel-5	5.11.1	Correct RAB test case 18.2.5.2a Poll_SDU value (TDD)	TEI

CHANGE REQUEST

34.123-1 CR 1219 rev - Current version: **5.11.1**

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:	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.32.		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	18/04/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:

1. The default Paging Type 1 message will not trigger a Cell Update with cause set to "PagingCause".
2. When the UE moves from Cell -FACH state to Cell -DCH state the IE "Timing indicator" in IE "Downlink information common for all radio links" should be set to initialise

Summary of change:

1. Included the Paging Type 1 message contents.
2. Changed the condition to A10 in the cell update confirm message.

Note : The contents of IEs "CHOICE channel requirement", "Downlink HS-PDSCH Information" and "Downlink information per radio link list" are the same for condition A9 & A10, but the conditions are also changed for clarification.

Consequences if not approved: The Test prose is incorrectly specified and a conformant UE may fail this testcase.

Clauses affected: 8.3.1.32.4

Other specs affected:	<input type="checkbox"/>	Y	N	Other core specifications Test specifications O&M Specifications	<input type="checkbox"/>
	<input checked="" type="checkbox"/>		X		
	<input checked="" type="checkbox"/>		X		
Other comments:	<input checked="" type="checkbox"/>	No Impact on TTCN.			

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.

8.3.1.32 Cell Update: Transition from URA_PCH to CELL_DCH, start of HS-DSCH reception

8.3.1.32.1 Definition

8.3.1.32.2 Conformance requirement

When the UE receives a PAGING TYPE 1 message, it shall perform the actions as specified below.

:

If the UE is in connected mode, for each occurrence of the IE "Paging record" included in the message the UE shall:

- 1> if the IE "Used paging identity" is a UTRAN identity and if this U-RNTI is the same as the U-RNTI allocated to the UE:
 - 2> if the optional IE "CN originated page to connected mode UE" is included:
 - 3> indicate reception of paging; and
 - 3> forward the IE "CN domain identity", the IE "Paging cause" and the IE "Paging record type identifier" to the upper layers.
 - 2> otherwise:
 - 3> perform a cell update procedure with cause "paging response" as specified in subclause 8.3.1.2.
 - 2> ignore any other remaining IE "Paging record" that may be present in the message.
- 1> otherwise:
 - 2> ignore that paging record.

...

A UE shall initiate the cell update procedure in the following cases:

- 1> Paging response:

...

...

If the IE "New H-RNTI" is included, the UE shall:

- 1> if the IE "Downlink HS-PDSCH Information" is also included and the UE would enter CELL_DCH state according to subclause 8.6.3.3 of TS 25.331 applied on the received message:
- 2> store the value in the variable H_RNTI.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

- 1> use the value of the variable H_RNTI as UE identity in the HS-SCCH reception procedure in the physical layer.

...

If the IE "Added or Reconfigured DL TrCH information" is included then for the transport channel identified by the IE "DL Transport Channel Identity" the UE shall:

- 1> if the choice "DL parameters" is set to 'HSDSCH':
 - 2> if the IE "HARQ Info" is included:
 - 3> perform the actions specified in subclause 8.6.5.6b of TS 25.331.

...

If the IE "Downlink HS-PDSCH Information" is included and the UE would enter CELL_DCH state according to subclause 8.6.3.3 applied on the received message, the UE shall:

- 1> if the IE "New H-RNTI" is included:
 - 2> perform the actions as specified in subclause 8.6.3.1b of TS 25.331.
- 1> if the IE "HS-SCCH Info" is included:
 - 2> act as specified in subclause 8.6.6.33 of TS 25.331.
- 1> if the IE "Measurement Feedback Info" is included:
 - 2> act as specified in subclause 8.6.6.34 of TS 25.331.
- 1> For FDD, if, as a result of the received message, the variable H_RNTI is set and the UE has a stored IE "HS-SCCH Info" and a stored IE "Measurement Feedback Info"; and
- 1> For FDD, if the UE has received IE "Uplink DPCH Power Control Info" and stored Δ_{ACK} , Δ_{NACK} and Ack-NACK Repetition factor; and
- 1> For FDD, if the UE has stored IEs "MAC-hs queue to add or reconfigure list", "MAC-d PDU size Info" and "RB Mapping Info" corresponding to the HS-PDSCH configuration;
 - 2> set the variable HS_DSCH_RECEPTION to TRUE;
 - 2> start HS-DSCH reception procedures according to the stored HS-PDSCH configuration:
 - 3> as stated in subclause 8.6.3.1b of TS 25.331 for the IE "H-RNTI";
 - 3> in subclause 8.6.6.33 of TS 25.331 for the IE "HS-SCCH Info"; and
 - 3> in subclause 8.6.6.34 of TS 25.331 for the IE "Measurement Feedback Info".

...

If the IE "HS-SCCH Info" is included, the UE shall:

- 1> store the received configuration.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

- 1> in the case of FDD:
 - 2> receive the HS-SCCH(s) according to the IE "HS-SCCH channelisation code" on the serving HS-DSCH radio link applying the scrambling code as received in the IE "DL Scrambling code".

...

If the IE "Measurement Feedback Info" is included, the UE shall:

- 1> store the received configuration.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

- 1> use the information for the channel quality indication (CQI) procedure in the physical layer on the serving HS-DSCH radio link.

Reference

3GPP TS 25.331 clauses 8.1.2, 8.3.1, 8.6.3.1, 8.6.3.1b, 8.6.5.6, 8.6.6.32, 8.6.6.33, 8.6.6.34

8.3.1.32.3 Test purpose

To confirm that the UE enters the CELL_DCH state after it receives a CELL UPDATE CONFIRM message with a physical channel configuration causing it to start HS-DSCH reception.

8.3.1.32.4 Method of test

Initial Condition

System Simulator: 1 cell.

UE: PS_DCCH_DTCH_HS_DSCH (state 6-17) as specified in clause 7.4 of TS 34.108.

Test Procedure

The UE is in the CELL_DCH state and has a radio bearer established that is mapped to HS-DSCH. The SS transmits a PHYSICAL CHANNEL RECONFIGURATION message, which invoke the UE to transit from CELL_DCH to URA_PCH. The UE transmits a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message using AM RLC and enters URA_PCH state.

The SS transmits a PAGING TYPE 1 message. The UE enters the CELL_FACH state to transmit a CELL UPDATE message using uplink CCCH in respond to the paging.

The SS transmits CELL UPDATE CONFIRM message which includes DPCH and HS-PDSCH physical channel parameters on the downlink DCCH. Then the UE resumes HS-DSCH reception and transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH.

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
1			PHYSICAL CHANNEL RECONFIGURATION	
2			PHYSICAL CHANNEL RECONFIGURATION COMPLETE	The UE enters the URA_PCH state
3	←		PAGING TYPE 1	
4		→	CELL UPDATE	The UE enters the CELL_FACH state.
5	←		CELL UPDATE CONFIRM	
6		→	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	The UE enters the CELL_DCH state and starts HS-DSCH reception.

Specific Message Contents

PHYSICAL CHANNEL RECONFIGURATION (Step 1)

Use the same message sub-type titled "Packet to CELL_FACH from CELL_DCH in PS" in Annex A with following exceptions:

Information Element	Value/remark
New C-RNTI	Not Present
RRC State Indicator	URA_PCH
UTRAN DRX cycle length coefficient	3
URA Identity	0000 0000 0000 0001B

[Paging Type 1 \(Step 3\)](#)

Information Element	Value/remark
-------------------------------------	------------------------------

Message Type	
Paging record list	Only 1 entry
Paging record	
- CHOICE Used paging identity	UTRAN identity
- U-RNTI	Equal to the U-RNTI assigned earlier.
- SRNC Identity	
- S-RNTI	
- CN originated page to connected mode UE	Not Present
BCCH modification info	Not Present

CELL UPDATE (Step 4)

The same message found in TS 34.108 clause 9 shall be transmitted by the UE on the uplink CCCH, with the exception of the following IEs:

Information Element	Value/remark
U-RNTI	Check to see if set to value assigned in cell 1.
- S-RNTI	
- SRNC Identity	
Cell Update Cause	Check to see if set to "Paging response"

CELL UPDATE CONFIRM (Step 5)

Use the same message sub-type found in TS 34.108 clause 9, with the following exceptions:

Information Element	Value/remark
New H-RNTI	'1010 1010 1010 1010'
RRC State indicator	CELL_DCH
CHOICE channel requirement	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10A9 .
Downlink information common for all radio links	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10A9 .
Downlink HS-PDSCH Information	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10A9 .
Downlink information per radio link list	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10A9 .

8.3.1.32.5 Test requirement

After step 1, the UE shall transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH using AM RLC.

After step 3, the UE shall transmit a CELL UPDATE message.

After step 5, the UE shall transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH using AM RLC.

CHANGE REQUEST

⌘ **34.123-1 CR 1220** ⌘ rev **-** ⌘ Current version: **5.11.1** ⌘

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:	⌘ CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.33.		
Source:	⌘ 3GPP TSG RAN WG5 (Testing)		
Work item code:	⌘ TEI	Date:	⌘ 18/04/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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: ⌘	<p>3. The default Paging Type 1 message will not trigger a Cell Update with cause set to "PagingCause".</p> <p>4. The purpose of the Physical Channel Reconfiguration message is to move the UE from Cell-DCH in cell1 to Cell-PCH in cell6. According to 25.331 sec 8.2.2.3 the IE "Frequency Info" & IE "Downlink Information for each radio link list" (for Primary CCPCH info) should be present.</p> <p>5. When the UE moves from Cell -FACH state to Cell -DCH state the IE "Timing indicator" in IE "Downlink information common for all radio links" should be set to initialise</p> <p>=====</p> <p>25.331 sec 8.2.2.3</p> <p>=====</p> <p>If after state transition the UE enters CELL_PCH state from CELL_DCH state, the UE shall, after the state transition and transmission of the response message:</p> <p>1> if the IE "Frequency info" is included in the received reconfiguration message:</p> <p>2> select a suitable UTRA cell according to [4] on that frequency.</p>
--	--

- 2> if the UE finds a suitable UTRA cell on that frequency:
 - 3> if the received reconfiguration message included the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD), and the UE selects another cell than indicated by this IE or the received reconfiguration message did not include the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD):
 - 4> initiate a cell update procedure according to subclause 8.3.1 using the cause "Cell reselection";
 - 4> proceed as below.
- 2> else, if the UE can not find a suitable UTRA cell on that frequency but it finds a suitable UTRA cell on another frequency:
 - 3> initiate a cell update procedure according to subclause 8.3.1 using the cause "Cell reselection";
 - 3> proceed as below.
- 1> if the IE "Frequency info" is not included in the received reconfiguration message:
 - 2> select a suitable UTRA cell according to [4].
 - 2> if the UE finds a suitable UTRA cell on the current frequency:
 - 3> if the received reconfiguration message included the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD), and the UE selects another cell than indicated by this IE or the received reconfiguration message did not include the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD):
 - 4> initiate a cell update procedure according to subclause 8.3.1 using the cause "Cell reselection";
 - 4> proceed as below.

Summary of change: ☞

- 3. Included the Paging Type 1 message contents.
- 4. Included IE "Frequency Info" and IE "Downlink Information for each radio link list"
- 5. Changed the condition to A10 in the cell update confirm message.

Note : The contents of IEs "CHOICE channel requirement", "Downlink HS-PDSCH Information" and "Downlink information per radio link list" are the same for condition A9 & A10, but the conditions are also changed for clarification.

Consequences if not approved: ☞ The Test prose is specified incorrectly and could cause a conformant UE to fail this testcase

Clauses affected: ☞ 8.3.1.33.4

Other specs affected: ☞

	Y	N
Other core specifications	X	
Test specifications	X	

Other comments: Change 2 Requires TTCN Changes.

How to create CRs using this form:

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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.

8.3.1.33 Cell Update: Transition from CELL_PCH to CELL_DCH, start of HS-DSCH reception, frequency band modification

8.3.1.33.1 Definition

All UEs which support FDD and HS-PDSCH.

8.3.1.33.2 Conformance requirement

When the UE receives a PAGING TYPE 1 message, it shall perform the actions as specified below.

:

If the UE is in connected mode, for each occurrence of the IE "Paging record" included in the message the UE shall:

- 1> if the IE "Used paging identity" is a UTRAN identity and if this U-RNTI is the same as the U-RNTI allocated to the UE:
 - 2> if the optional IE "CN originated page to connected mode UE" is included:
 - 3> indicate reception of paging; and
 - 3> forward the IE "CN domain identity", the IE "Paging cause" and the IE "Paging record type identifier" to the upper layers.
 - 2> otherwise:
 - 3> perform a cell update procedure with cause "paging response" as specified in subclause 8.3.1.2.
 - 2> ignore any other remaining IE "Paging record" that may be present in the message.
- 1> otherwise:
 - 2> ignore that paging record.

...

A UE shall initiate the cell update procedure in the following cases:

- 1> Paging response:

...

...

In case the procedure was triggered by reception of a PHYSICAL CHANNEL RECONFIGURATION message, the UE shall:

- 1> transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE as response message on the uplink DCCH using AM RLC.

...

If the new state is CELL_PCH, the response message shall be transmitted using the old configuration before the state transition, but the new C-RNTI shall be used if the IE "New C-RNTI" was included in the received reconfiguration message, and the UE shall:

- 1> when RLC has confirmed the successful transmission of the response message:

...

- 2> enter the new state (CELL_PCH);

...

When the UE receives a CELL UPDATE CONFIRM/URA UPDATE CONFIRM message; and

- if the message is received on the CCCH, and IE "U-RNTI" is present and has the same value as the variable U_RNTI; or
- if the message is received on DCCH:
 - 2> if the IE "Frequency info" is included in the message:
 - 3> if the IE "RRC State Indicator" is set to the value "CELL_DCH":
 - 4> act on the IE "Frequency info" as specified in subclause 8.6.6.1 in TS 25.331.

...

If the IE "New H-RNTI" is included, the UE shall:

- 1> if the IE "Downlink HS-PDSCH Information" is also included and the UE would enter CELL_DCH state according to subclause 8.6.3.3 of TS 25.331 applied on the received message:
 - 2> store the value in the variable H_RNTI.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

- 1> use the value of the variable H_RNTI as UE identity in the HS-SCCH reception procedure in the physical layer.

...

If the IE "Added or Reconfigured DL TrCH information" is included then for the transport channel identified by the IE "DL Transport Channel Identity" the UE shall:

- 1> if the choice "DL parameters" is set to 'HSDSCH':
 - 2> if the IE "HARQ Info" is included:
 - 3> perform the actions specified in subclause 8.6.5.6b of TS 25.331.

...

If, after completion of the procedure, the UE will be in CELL_DCH state, the UE shall:

- 1> if the IE "Frequency info" is included:
 - 2> if the frequency is different from the currently used frequency:
 - 3> store and use the frequency indicated by the IE "Frequency Info"; and
 - 3> perform the physical layer synchronisation procedure A as specified in TS 25.214 (FDD only).

...

If the IE "Downlink HS-PDSCH Information" is included and the UE would enter CELL_DCH state according to subclause 8.6.3.3 applied on the received message, the UE shall:

- 1> if the IE "New H-RNTI" is included:
 - 2> perform the actions as specified in subclause 8.6.3.1b of TS 25.331.
- 1> if the IE "HS-SCCH Info" is included:
 - 2> act as specified in subclause 8.6.6.33 of TS 25.331.
- 1> if the IE "Measurement Feedback Info" is included:
 - 2> act as specified in subclause 8.6.6.34 of TS 25.331.
- 1> For FDD, if, as a result of the received message, the variable H_RNTI is set and the UE has a stored IE "HS-SCCH Info" and a stored IE "Measurement Feedback Info"; and

- 1> For FDD, if the UE has received IE "Uplink DPCH Power Control Info" and stored Δ_{ACK} , Δ_{NACK} and Ack-NACK Repetition factor; and
- 1> For FDD, if the UE has stored IEs "MAC-hs queue to add or reconfigure list", "MAC-d PDU size Info" and "RB Mapping Info" corresponding to the HS-PDSCH configuration;
 - 2> set the variable HS_DSCH_RECEPTION to TRUE;
 - 2> start HS-DSCH reception procedures according to the stored HS-PDSCH configuration:
 - 3> as stated in subclause 8.6.3.1b of TS 25.331 for the IE "H-RNTI";
 - 3> in subclause 8.6.6.33 of TS 25.331 for the IE "HS-SCCH Info"; and
 - 3> in subclause 8.6.6.34 of TS 25.331 for the IE "Measurement Feedback Info".

...

If the IE "HS-SCCH Info" is included, the UE shall:

- 1> store the received configuration.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

- 1> in the case of FDD:
 - 2> receive the HS-SCCH(s) according to the IE "HS-SCCH channelisation code" on the serving HS-DSCH radio link applying the scrambling code as received in the IE "DL Scrambling code".

...

If the IE "Measurement Feedback Info" is included, the UE shall:

- 1> store the received configuration.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

- 1> use the information for the channel quality indication (CQI) procedure in the physical layer on the serving HS-DSCH radio link.

Reference

3GPP TS 25.331 clauses 8.1.2, 8.2.2.3, 8.2.2.4, 8.3.1, 8.6.3.1, 8.6.3.1b, 8.6.5.6, 8.6.6.1, 8.6.6.32, 8.6.6.33, 8.6.6.34

8.3.1.33.3 Test purpose

To confirm that the UE enters the CELL_DCH state after it receives a CELL UPDATE CONFIRM message with a physical channel configuration causing it to start HS-DSCH reception on a different cell and frequency. To confirm that the UE enters CELL_PCH state on another frequency and stops HS-DSCH reception when it receives a PHYSICAL CHANNEL RECONFIGURATION message.

8.3.1.33.4 Method of test

Initial Condition

System Simulator: 2 cells - cell 1 is active and cell 6 is inactive.

UE: PS_DCCH_DCH (state 6-7) as specified in clause 7.4 of TS 34.108.

Related ICS/IXIT statement(s)

- UE supports FDD
- UE supports HS-PDSCH

Test Procedure

Table 8.3.1.33

Parameter	Unit	Cell 1			Cell 6		
		T0	T1	T2	T0	T1	T2
UTRA RF Channel Number		f ₁			f ₂		
CPICH Ec	dBm/3.84 MHz	-60	-72	-60	Off	-55	-72

Table 8.3.1.33 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution.

SS initiates P25 to make the UE move to state 6-17 as specified in TS34.108 clause 7.4. The UE is in the CELL_DCH state in cell 1 and has a radio bearer established that is mapped to HS-DSCH. The SS has configured its downlink transmission power setting according to columns "T0" in table 8.3.1.33.

The SS switches its downlink transmission power settings to columns "T1". The SS transmits a PHYSICAL CHANNEL RECONFIGURATION message, which invokes the UE to transit from CELL_DCH to CELL_PCH in cell 6. The UE transmits a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message using AM RLC, selects cell 6 and enters CELL_PCH state.

The SS transmits a PAGING TYPE 1 message. The UE enters the CELL_FACH state to transmit a CELL UPDATE message using uplink CCCH in cell 6 in response to the paging.

The SS switches its downlink transmission power settings to columns "T2". The SS transmits CELL UPDATE CONFIRM message, which includes DPCH and HS-PDSCH physical channel parameters for cell 1 on the downlink DCCH. Then the UE establishes the DPCH and HS-PDSCH in cell 1 and resumes HS-DSCH reception and transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH in cell 1.

NOTE: If the UE fails the test because of a failure to reselect to a right cell, then the operator may re-run the test.

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
0	↔		P25	See below for the specific message content used in RADIO BEARER SETUP message (Step 0)
1				The UE is in CELL_DCH state in cell 1 and the SS configures its downlink transmission power setting according to columns "T1" in table 8.3.1.33.
2			PHYSICAL CHANNEL RECONFIGURATION	
3			PHYSICAL CHANNEL RECONFIGURATION COMPLETE	After transmitting this message, the UE enters the CELL_PCH state in cell 6
4		SS		SS sends the L2 ack on the PHYSICAL CHANNEL RECONFIGURATION COMPLETE message and then waits 5 seconds to allow the UE to read system information before the next step. Note: The SS should continue to keep the dedicated channel configuration during the time when the L2 ack is sent to the UE.
5	←		PAGING TYPE 1	
6	→		CELL UPDATE	The UE enters the CELL_FACH state.
7		SS		The SS switches its downlink transmission power settings to columns "T2" in table 8.3.1.33.
8	←		CELL UPDATE CONFIRM	
9	→		PHYSICAL CHANNEL RECONFIGURATION COMPLETE	The UE changes to cell 1, enters the CELL_DCH state and starts HS-DSCH reception.
10	↔		CALL C.3	If the test result of C.3 indicates that UE is in CELL_DCH state, the test passes, otherwise it fails.

Specific Message Contents

RADIO BEARER SETUP (Step 0)

Use the same message as specified for " Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" in 34.108, except for the following:

Information Element	Value/remark
RAB information for setup	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10.
Added or Reconfigured DL TrCH information	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10.

PHYSICAL CHANNEL RECONFIGURATION (Step 2)

Use the same message sub-type titled "Packet to CELL_FACH from CELL_DCH in PS" in TS 34.108 clause 9 with following exceptions:

Information Element	Value/remark
New C-RNTI	Not Present
RRC State Indicator	CELL_PCH
UTRAN DRX cycle length coefficient	3
Frequency info	Not present
- CHOICE mode	FDD
- UARFCN uplink(Nu)	Same uplink UARFCN as used for cell 6
- UARFCN downlink(Nd)	Same downlink UARFCN as used for cell 6
Downlink information for each radio link list	Not present
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	
- Primary scrambling code	Set to the Primary scrambling code used for cell6
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Serving HS-DSCH radio link indicator	FALSE
- Downlink DPCH info for each RL	Not present
- SCCPCH information for FACH	Not Present

Paging Type 1 (Step 5)

Information Element	Value/remark
Message Type	
Paging record list	Only 1 entry
Paging record	
- CHOICE Used paging identity	UTRAN identity
- U-RNTI	Equal to the U-RNTI assigned earlier.
- SRNC Identity	
- S-RNTI	
- CN originated page to connected mode UE	Not Present
BCCH modification info	Not Present

CELL UPDATE (Step 6)

The same message found in TS 34.108 clause 9 shall be transmitted by the UE on the uplink CCCH, with the exception of the following IEs:

Information Element	Value/remark
U-RNTI - S-RNTI - SRNC Identity	Check to see if set to value assigned in cell 1. Check to see if set to value assigned in cell 1.
Cell Update Cause	Check to see if set to "Paging response"

CELL UPDATE CONFIRM (Step 8)

Use the same message sub-type found in TS 34.108 clause 9, with the following exceptions:

Information Element	Value/remark
New H-RNTI	'0101 0101 0101 0101'
RRC State indicator	CELL_DCH
Frequency info	Set to the frequency of cell 1
CHOICE channel requirement	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109.
Downlink information common for all radio links	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109.
Downlink HS-PDSCH Information	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109.
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	
- Primary scrambling code	Set to the primary scrambling code of cell 1
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Serving HS-DSCH radio link indicator	TRUE
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	1
- Scrambling code change	No change
- TPC combination index	0
- Power offset $P_{TPC-DPCH}$	Not Present
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	

8.3.1.33.5 Test requirement

After step 2, the UE shall transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH using AM RLC.

After step 5, the UE shall transmit a CELL UPDATE message.

After step 8, the UE shall transmit a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH using AM RLC in cell 1.

CHANGE REQUEST

34.123-1 CR 1221 rev - Current version: 5.11.1

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:	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.34.		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	18/04/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	<p>1. C-RNTI is set to 20 bits, but it should be of size 16</p> <p>2. The Cell Update Confirm message includes the IE "RB information to reconfigure list". According to 25.331 sec 8.3.1.7, if this message is included then the UE shall transmit a Radio Bearer Reconfiguration Complete message.</p> <hr style="border-top: 1px dashed black;"/> <p>25.331 sec 8.3.1.7</p> <hr style="border-top: 1px dashed black;"/> <p>If the CELL UPDATE CONFIRM message:</p> <ul style="list-style-type: none"> - does not include the IE "RB information to release list"; and - includes the IE "RB information to reconfigure list"; or - includes the IE "RB information to be affected list": <p>the UE shall:</p> <p>1> transmit a RADIO BEARER RECONFIGURATION COMPLETE as response message using AM RLC.</p> <hr style="border-top: 1px dashed black;"/>
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Summary of change: ☹ 1. Corrected the C-RNTI to have a size of 16.
 2. Included Radio Bearer Reconfiguration Complete message in the Expected sequence and in the test procedure.
 3. Corrected the table reference error in step 1 of expected sequence

Consequences if not approved: ☹ The Test prose is incorrectly specified and a conformant UE may fail this test case

Clauses affected: ☹ 8.3.1.34.4

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

Other comments: ☹ Change 2 requires TTCN changes

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.

8.3.1.34 Cell Update: Transition from CELL_DCH to CELL_FACH, stop of HS-DSCH reception

8.3.1.34 .1 Definition

8.3.1.34 .2 Conformance requirement

1> Radio link failure:

...

3> if the UE is in CELL_DCH state and the criteria for radio link failure are met as specified in subclause 8.5.6 of TS 25.331; or

...

4> perform cell update using the cause "radio link failure".

When initiating the URA update or cell update procedure, the UE shall:

...

1> if HS-DSCH is configured:

2> stop any HS-DSCH reception procedures;

2> clear any stored HS-PDSCH configuration;

2> act as if the IE "MAC-hs reset indicator" is received and set to TRUE;

2> release all HARQ resources;

2> remove any H-RNTI stored;

2> clear the variable H_RNTI;

2> set the variable HS_DSCH_RECEPTION to FALSE.

1> if the UE is not already in CELL_FACH state:

2> move to CELL_FACH state;

2> select PRACH according to subclause 8.5.17 of TS 25.331;

2> select Secondary CCPCH according to subclause 8.5.19 of TS 25.331;

2> use the transport format set given in system information as specified in subclause 8.6.5.1 of TS 25.331.

Reference

3GPP TS 25.331 clauses 8.3.1.2

8.3.1.34 .3 Test purpose

To confirm that the UE stops HS-DSCH reception after a radio link failure in CELL_DCH during HS-DSCH reception.

8.3.1.34 .4 Method of test

Initial Condition

System Simulator: 2 cells – Cell 1 is active and cell 2 is inactive.

UE: PS-DCCCH_DCH (state 6-7) as specified in clause 7.4 of TS 34.108.

Test Procedure

Table 8.3.1.34

Parameter	Unit	Cell 1		Cell 2	
		T0	T1	T0	T1
UTRA RF Channel Number		Ch. 1		Ch. 1	
CPICH Ec (FDD)	dBm/3.84MHz	-60	OFF	-75	-60
P-CCPCH RSCP (TDD)	dBm	-60	OFF	-75	-60

Table 8.3.1.34 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution. Column marked "T0" denote the initial conditions.

The UE is in CELL_DCH state and only signalling radio bearers have been established. SS initiates P25 to make the UE to move to state 6-17 as specified in TS 34.108 clause 7.4. The UE is in the CELL_DCH state and has a radio bearer established that is mapped to HS-DSCH. SS configures its downlink transmission power settings according to column "T1" in table 8.3.1.34. The UE shall detect a radio link failure in cell 1.

Then it shall attempt to re-select to cell 2. After that, it shall then enter CELL_FACH state and transmit a CELL UPDATE message on the uplink CCCH to SS.

The SS transmits a CELL UPDATE CONFIRM message which request the UE to transit to CELL_FACH state. [The UE responds with a RADIO BEARER RECONFIGURATION COMPLETE message.](#)

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
0	↔		P25	See below for the specific message content used in RADIO BEARER SETUP message. (Step 0)
1				SS configures cell 1 and 2 according to column "T1" in table 8.3.1.34 26 . SS starts to listen to the uplink CCCH of cell 2.
2				The UE detects the radio link failure and stops reception of HS-DSCH.
3		→	CELL UPDATE	The UE shall find a new cell 2 and the value "radio link failure" shall be set in IE "Cell update cause".
4		←	CELL UPDATE CONFIRM	
<u>5</u>		→	RADIO BEARER RECONFIGURATION COMPLETE	

Specific Message Contents

RADIO BEARER SETUP (Step 0)

Use the same message as specified for " Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" in 34.108, except for the following:

Information Element	Value/remark
Added or Reconfigured DL TrCH information	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9, with the following exception;
- MAC-d PDU size	656

CELL UPDATE (Step 3)

The same message found in TS 34.108 clause 9 shall be transmitted by the UE on the uplink CCCH, with the exception of the following IEs:

Information Element	Value/remark
U-RNTI	
- S-RNTI	Check to see if set to value assigned in cell 1.
- SRNC Identity	Check to see if set to value assigned in cell 1.
Cell Update Cause	Check to see if set to "Radio link failure"

CELL UPDATE CONFIRM (Step 4)

Use the same message sub-type found in TS 34.108 clause 9 with the exception of the following IEs:

Information Element	Value/remark
New C-RNTI	'0101 0101 0101 0101- 0101 '
RLC re-establish indicator (RB2, RB3 and RB4)	TRUE
RB information to reconfigure list	
- RB information to reconfigure	(AM DCCH for RRC)
- RB identity	2
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard

- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250
- Timer_poll	250
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Present
- RB stop/continue	Not Present
- RB information to reconfigure	(AM DCCH for NAS_DT High priority)
- RB identity	3
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600

- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250
- Timer_poll	250
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Present
- RB stop/continue	Not Present
- RB information to reconfigure	(AM DCCH for NAS_DT Low priority)
- RB identity	4
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250

- Timer_poll	250
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Present
- RB stop/continue	Not Present
- RB information to reconfigure	(AM DTCH)
- RB identity	20
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250
- Timer_poll	250
- Poll_PDU	Not Present
- Poll_SDU	1

- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Present
- RB stop/continue	Not Present
Deleted DL TrCH Information	
- Downlink transport channel type	HS-DSCH
- DL HS-DSCH MAC-d flow identity	0
Added or Reconfigured DL TrCH information	
- MAC-d PDU size	336

8.3.1.34 .5 Test requirement

After step 2, the UE shall transmit a CELL UPDATE message and stop HS-DSCH reception.

CHANGE REQUEST

⌘ **34.123-1 CR 1222** ⌘ rev **-** ⌘ Current version: **5.11.1** ⌘

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:	⌘ CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.35.		
Source:	⌘ 3GPP TSG RAN WG5 (Testing)		
Work item code:	⌘ TEI	Date:	⌘ 18/04/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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: ⌘

1. H-RNTI is set to 20 bits, but it should be of size 16
2. When the UE moves from Cell -FACH state to Cell -DCH state the IE "Timing indicator" in IE "Downlink information common for all radio links" should be set to initialise

Summary of change: ⌘




1. Corrected the H-RNTI to have a size of 16.
2. Changed the condition to A10 in the cell update confirm message.

Note : The contents of IEs "UL Transport channel information common for all transport channels", "DL Transport channel information common for all transport channels" "CHOICE channel requirement", "Downlink HS-PDSCH Information" and "Downlink information per radio link list" are the same for condition A9 & A10, but the conditions are also changed for clarification.

Consequences if not approved: ⌘ The Test prose is incorrectly specified and a conformant UE may fail this testcase.

Clauses affected: ⌘ 8.3.1.35.4


Y N

Other specs affected:		<input checked="" type="checkbox"/>	Other core specifications		
		<input checked="" type="checkbox"/>	Test specifications		
		<input checked="" type="checkbox"/>	O&M Specifications		
Other comments:		No impact on the TTCN.			

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.

8.3.1.35 Cell Update: Transition from CELL_DCH to CELL_DCH, with active HS-DSCH reception

8.3.1.35 .1 Definition

8.3.1.35 .2 Conformance requirement

1> Radio link failure:

...

3> if the UE is in CELL_DCH state and the criteria for radio link failure are met as specified in subclause 8.5.6 of TS 25.331; or

...

4> perform cell update using the cause "radio link failure".

When initiating the URA update or cell update procedure, the UE shall:

...

1> if HS-DSCH is configured:

2> stop any HS-DSCH reception procedures;

2> clear any stored HS-PDSCH configuration;

2> act as if the IE "MAC-hs reset indicator" is received and set to TRUE;

2> release all HARQ resources;

2> remove any H-RNTI stored;

2> clear the variable H_RNTI;

2> set the variable HS_DSCH_RECEPTION to FALSE.

Reference

3GPP TS 25.331 clauses 8.3.1.2

8.3.1.35 .3 Test purpose

To confirm that the UE keeps the RB mapping option for HS-DSCH reception after a radio link failure in CELL_DCH during HS-DSCH reception.

8.3.1.35 .4 Method of test

Initial Condition

System Simulator: 2 cells – Cell 1 is active and cell 2 is inactive.

UE: PS-DCCH_DCH (state 6-7) as specified in clause 7.4 of TS 34.108.

Test Procedure

Table 8.3.1.35

Parameter	Unit	Cell 1		Cell 2	
		T0	T1	T0	T1
UTRA RF Channel Number		Ch. 1		Ch. 1	
CPICH Ec (FDD)	dBm/3.84MHz	-60	OFF	-75	-60
P-CCPCH RSCP (TDD)	dBm	-60	OFF	-75	-60

Table 8.3.1.35 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution. Column marked "T0" denote the initial conditions.

The UE is in CELL_DCH state and only signalling radio bearers have been established. SS initiates P25 to make the UE to move to state 6-17 as specified in TS 34.108 clause 7.4. The UE is in the CELL_DCH state and has a radio bearer established that is mapped to HS-DSCH. SS configures its downlink transmission power settings according to column "T1" in table 8.3.1.35. The UE shall detect a radio link failure in cell 1.

Then it shall attempt to re-select to cell 2. After that, it shall then enter CELL_FACH state and transmit a CELL UPDATE message on the uplink CCCH to SS.

The SS transmits a CELL UPDATE CONFIRM message which request the UE to transit to CELL_DCH state and start reception of HS-DSCH.

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
0	↔		P25	See below for the specific message content used in RADIO BEARER SETUP message. (Step 0)
1				SS configures cell 1 and 2 according to column "T1" in table 8.3.1.35. SS starts to listen to the uplink CCCH of cell 2.
2				The UE detects the radio link failure and stops reception of HS-DSCH.
3		→	CELL UPDATE	The UE shall find a new cell 2 and the value "radio link failure" shall be set in IE "Cell update cause".
4		←	CELL UPDATE CONFIRM	
5		→	TRANSPORT CHANNEL RECONFIGURATION COMPLETE	

Specific Message Contents

RADIO BEARER SETUP (Step 0)

Use the same message as specified for “Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS” in 34.108.

CELL UPDATE (Step 3)

The same message found in TS 34.108 clause 9 shall be transmitted by the UE on the uplink CCCH, with the exception of the following IEs:

Information Element	Value/remark
U-RNTI	
- S-RNTI	Check to see if set to value assigned in cell 1.
- SRNC Identity	Check to see if set to value assigned in cell 1.
Cell Update Cause	Check to see if set to “Radio link failure”

CELL UPDATE CONFIRM (Step 4)

Use the same message sub-type found in TS 34.108 clause 9, with the following exceptions:

Information Element	Value/remark
New H-RNTI	'0101 0101 0101 0101- 0101 '
RRC State indicator	CELL_DCH
UL Transport channel information common for all transport channels	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109
DL Transport channel information common for all transport channels	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109.
Added or Reconfigured DL TrCH information list	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9.
CHOICE channel requirement	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109
Downlink HS-PDSCH Information	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109
Downlink information common for all radio links	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109

Downlink information per radio link list - Primary CPICH info - Primary scrambling code	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A109, with the following exception; 150
---	--

8.3.1.35 .5 Test requirement

After step 2, the UE shall transmit a CELL UPDATE message.

After step 4, the UE shall transmit a TRANSPORT CHANNEL RECONFIGURATION COMPLETE message and start reception of HS-DSCH.

CHANGE REQUEST

34.123-1 CR 1223 rev - Current version: 5.11.1

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:	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.36.		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	18/04/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	<ol style="list-style-type: none"> 1. C-RNTI is set to 20 bits, but it should be of size 16 2. According to 25.331 sec 8.3.1.6, if the IE Frequency Info is present and IE Primary CPICH info is not present then this would initiate the UE to trigger another Cell update procedure. Therefore proposed to include the IE Downlink information per radio link list (IE Primary CPICH info is present) 3. The Cell Update Confirm message includes the IE "RB information to reconfigure list". According to 25.331 sec 8.3.1.7, if this message is included then the UE shall transmit a Radio Bearer Reconfiguration Complete message. <hr style="border-top: 1px dashed black;"/> <p>25.331 sec 8.3.1.6</p> <hr style="border-top: 1px dashed black;"/> <ol style="list-style-type: none"> 1> in case of a cell update procedure and the CELL UPDATE CONFIRM message: <ol style="list-style-type: none"> 2> includes "RB information elements"; and/or 2> includes "Transport channel information elements"; and/or 2> includes "Physical channel information elements"; and 2> if the variable ORDERED_RECONFIGURATION is set to FALSE: <ol style="list-style-type: none"> 3> set the variable ORDERED_RECONFIGURATION to TRUE.
---------------------------	---

- 1> act upon all received information elements as specified in subclause 8.6, unless specified otherwise in the following:
 - 2> if the IE "Frequency info" is included in the message:
 - 3> if the IE "RRC State Indicator" is set to the value "CELL_FACH" or "CELL_PCH" or URA_PCH":
 - 4> select a suitable UTRA cell according to [4] on that frequency;
 - 4> if the UE finds a suitable UTRA cell on that frequency:
 - 5> if the received CELL UPDATE CONFIRM message included the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD), and the UE selects another cell than indicated by this IE or the received CELL UPDATE CONFIRM message did not include the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD):
 - 6> act as specified in subclause 8.3.1.12.
 - 4> else, if the UE can not find a suitable UTRA cell on the indicated frequency but it finds a suitable UTRA cell on another frequency:
 - 5> act as specified in subclause 8.3.1.12.

25.331 sec 8.3.1.7

=====

If the CELL UPDATE CONFIRM message:

- does not include the IE "RB information to release list"; and
- includes the IE "RB information to reconfigure list"; or
- includes the IE "RB information to be affected list":

the UE shall:

- 1> transmit a RADIO BEARER RECONFIGURATION COMPLETE as response message using AM RLC.

=====

Summary of change: ☒

- 1. Corrected the C-RNTI to have a size of 16.
- 2. Included the IE "Downlink information per radio link list" in the Cell Update Confirm message.
- 3. Included Radio Bearer Reconfiguration Complete message in the Expected sequence and in the test procedure.




Consequences if not approved:

☒ The Test prose is incorrectly specified and a conformant UE may fail this test case

Clauses affected:

☒ 8.3.1.36.4


Y | N

Other specs affected:		<input checked="" type="checkbox"/>	Other core specifications		
		<input checked="" type="checkbox"/>	Test specifications		
		<input checked="" type="checkbox"/>	O&M Specifications		
Other comments:		Change 2 and 3 requires TTCN changes.			

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.

8.3.1.36 Cell Update: Transition from CELL_DCH to CELL_FACH (stop of HS-DSCH reception with frequency modification)

8.3.1.36 .1 Definition

(All UEs which support FDD and HS-PDSCH.)

8.3.1.36 .2 Conformance requirement

1> Radio link failure:

...

3> if the UE is in CELL_DCH state and the criteria for radio link failure are met as specified in subclause 8.5.6; or

...

4> perform cell update using the cause "radio link failure".

When initiating the URA update or cell update procedure, the UE shall:

...

1> if HS-DSCH is configured:

2> stop any HS-DSCH reception procedures;

2> clear any stored HS-PDSCH configuration;

2> act as if the IE "MAC-hs reset indicator" is received and set to TRUE;

2> release all HARQ resources;

2> remove any H-RNTI stored;

2> clear the variable H_RNTI;

2> set the variable HS_DSCH_RECEPTION to FALSE.

1> if the UE is not already in CELL_FACH state:

2> move to CELL_FACH state;

2> select PRACH according to subclause 8.5.17;

2> select Secondary CCPCH according to subclause 8.5.19;

2> use the transport format set given in system information as specified in subclause 8.6.5.1.

Reference

3GPP TS 25.331 clauses 8.3.1.2

8.3.1.36 .3 Test purpose

To confirm that the UE stops HS-DSCH reception after a radio link failure in CELL_DCH during HS-DSCH reception.

8.3.1.36 .4 Method of test

Initial Condition

System Simulator: 2 cells – Cell 1 is active and cell 6 is inactive.

UE: PS-DCCH_DCH (state 6-7) as specified in clause 7.4 of TS 34.108.

Test Procedure

Table 8.3.1.36

Parameter	Unit	Cell 1		Cell 6	
		T0	T1	T0	T1
UTRA RF Channel Number		Ch. 1		Ch. 2	
CPICH Ec (FDD)	dBm/3.84MHz	-60	OFF	-75	-60
P-CCPCH RSCP (TDD)	dBm	-60	OFF	-75	-60

Table 8.3.1.36 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution. Column marked "T0" denote the initial conditions.

The UE is in CELL_DCH state and only signalling radio bearers have been established. SS initiates P25 to make the UE to move to state 6-17 as specified in TS 34.108 clause 7.4. The UE is in the CELL_DCH state and has a radio bearer established that is mapped to HS-DSCH. SS configures its downlink transmission power settings according to column "T1" in table 8.3.1.36. The UE shall detect a radio link failure in cell 1.

Then it shall attempt to re-select to cell 6. After that, it shall then enter CELL_FACH state and transmit a CELL UPDATE message on the uplink CCCH to SS.

The SS transmits a CELL UPDATE CONFIRM message which requests the UE to transit to CELL_FACH state. [The UE responds with a RADIO BEARER RECONFIGURATION COMPLETE message.](#)

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
0	↔		P25	See below for the specific message content used in RADIO BEARER SETUP message. (Step 0)
1				SS configures cell 1 and 6 according to column "T1" in table 8.3.1.36. SS starts to listen to the uplink CCCH of cell 6.
2				The UE detects the radio link failure and stops reception of HS-DSCH.
3		→	CELL UPDATE	The UE shall find a new cell 6 and the value "radio link failure" shall be set in IE "Cell update cause".
4		←	CELL UPDATE CONFIRM	
<u>5</u>		→	<u>RADIO BEARER RECONFIGURATION COMPLETE</u>	

Specific Message Contents

RADIO BEARER SETUP (Step 0)

Use the same message as specified for " Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" in 34.108.

CELL UPDATE (Step 3)

The same message found in TS 34.108 clause 9 shall be transmitted by the UE on the uplink CCCH, with the exception of the following IEs:

Information Element	Value/remark
U-RNTI	
- S-RNTI	Check to see if set to value assigned in cell 1.
- SRNC Identity	Check to see if set to value assigned in cell 1.
Cell Update Cause	Check to see if set to "Radio link failure"

CELL UPDATE CONFIRM (Step 4)

Use the same message sub-type found in TS 34.108 clause 9 with the exception of the following IEs:

Information Element	Value/remark
New C-RNTI	'0101 0101 0101 0101- 0101 '
RLC re-establish indicator (RB2, RB3 and RB4)	TRUE
RB information to reconfigure list	
- RB information to reconfigure	(AM DCCH for RRC)
- RB identity	2
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250
- Timer_poll	250
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present

- RB mapping info	Not Present
- RB stop/continue	Not Present
- RB information to reconfigure	(AM DCCH for NAS_DT High priority)
- RB identity	3
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250
- Timer_poll	250
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Present
- RB stop/continue	Not Present
- RB information to reconfigure	(AM DCCH for NAS_DT Low priority)

- RB identity	4
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250
- Timer_poll	250
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Present
- RB stop/continue	Not Present
- RB information to reconfigure	(AM DTCH)
- RB identity	20
- PDCP info	Not Present
- PDCP SN info	Not Present

- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	600
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	250
- Timer_poll	250
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Present
- RB stop/continue	Not Present
Deleted DL TrCH Information	Same as the set defined in RADIO BEARER RELEASE message found in TS 34.108 clause 9 under condition A9.
Frequency info	
- UARFCN uplink (Nu)	Same uplink UARFCN as used for cell 6
- UARFCN downlink (Nd)	Same downlink UARFCN as used for cell 6
- Downlink information for each radio link	
- Choice mode	FDD

- Primary CPICH info	
- Primary scrambling code	Set to the Primary scrambling code used for cell6
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Serving HS-DSCH radio link indicator	FALSE
- Downlink DPCH info for each RL	Not present
- SCCPCH information for FACH	Not Present

8.3.1.36 .5 Test requirement

After step 2, the UE shall transmit a CELL UPDATE message and stop HS-DSCH reception.

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1224 rev - Current version: **5.11.1**

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:	CR to 34.123-1: Correction to GCF WI-014 RRC HSDPA test case 8.3.1.37.		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	18/04/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	H-RNTI is set to 20 bits, but it should be of size 16
Summary of change:	Corrected the H-RNTI to have a size of 16.
Consequences if not approved:	The test prose could be misleading and incorrectly specified.

Clauses affected:	8.3.1.37.4						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	X	<input checked="" type="checkbox"/>				
X							
<input checked="" type="checkbox"/>							
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	X	<input checked="" type="checkbox"/>				
X							
<input checked="" type="checkbox"/>							
Other comments:	No impact on the TTCN.						

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.

8.3.1.37 Cell Update: Transition from CELL_DCH to CELL_DCH (with active HS-DSCH reception and frequency modification)

8.3.1.37 .1 Definition

(All UEs which support FDD and HS-PDSCH.)

8.3.1.37 .2 Conformance requirement

1> Radio link failure:

...

3> if the UE is in CELL_DCH state and the criteria for radio link failure are met as specified in subclause 8.5.6; or

...

4> perform cell update using the cause "radio link failure".

When initiating the URA update or cell update procedure, the UE shall:

...

1> if HS-DSCH is configured:

2> stop any HS-DSCH reception procedures;

2> clear any stored HS-PDSCH configuration;

2> act as if the IE "MAC-hs reset indicator" is received and set to TRUE;

2> release all HARQ resources;

2> remove any H-RNTI stored;

2> clear the variable H_RNTI;

2> set the variable HS_DSCH_RECEPTION to FALSE.

Reference

3GPP TS 25.331 clauses 8.3.1.2

8.3.1.37 .3 Test purpose

To confirm that the UE keeps the RB mapping option for HS-DSCH reception after a radio link failure in CELL_DCH during HS-DSCH reception.

8.3.1.37 .4 Method of test

Initial Condition

System Simulator: 2 cells – Cell 1 is active and cell 6 is inactive.

UE: PS-DCCH_DCH (state 6-7) as specified in clause 7.4 of TS 34.108.

Test Procedure

Table 8.3.1.37

Parameter	Unit	Cell 1		Cell 6	
		T0	T1	T0	T1
UTRA RF Channel Number		Ch. 1		Ch. 2	
CPICH Ec (FDD)	dBm/3.84MHz	-60	OFF	-75	-60
P-CCPCH RSCP (TDD)	dBm	-60	OFF	-75	-60

Table 8.3.1.37 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution. Column marked "T0" denote the initial conditions.

The UE is in CELL_DCH state and only signalling radio bearers have been established. SS initiates P25 to make the UE to move to state 6-17 as specified in TS 34.108 clause 7.4. The UE is in the CELL_DCH state and has a radio bearer established that is mapped to HS-DSCH. SS configures its downlink transmission power settings according to column "T1" in table 8.3.1.37. The UE shall detect a radio link failure in cell 1.

Then it shall attempt to re-select to cell 6. After that, it shall then enter CELL_FACH state and transmit a CELL UPDATE message on the uplink CCCH to SS.

The SS transmits a CELL UPDATE CONFIRM message which requests the UE to transit to CELL_DCH state and start reception of HS-DSCH.

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
0	↔		P25	See below for the specific message content used in RADIO BEARER SETUP message. (Step 0)
1				SS configures cell 1 and 6 according to column "T1" in table 8.3.1.36. SS starts to listen to the uplink CCCH of cell 6.
2				The UE detects the radio link failure and stops reception of HS-DSCH.
3		→	CELL UPDATE	The UE shall find a new cell 6 and the value "radio link failure" shall be set in IE "Cell update cause".
4		←	CELL UPDATE CONFIRM	
5		→	TRANSPORT CHANNEL RECONFIGURATION COMPLETE	

Specific Message Contents

RADIO BEARER SETUP (Step 0)

Use the same message as specified for " Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" in 34.108, except for the following:

Information Element	Value/remark
RAB information for setup - PDCP info - Transmission RLC discard - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Timer_poll_prohibit - Timer_poll - Poll_Windows - Receiving window size - Downlink RLC status info - Timer_status_prohibit	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10, with the following exceptions Not present 10 256 1000 12 50 400 80 2047 50
UL Transport channel Information for all transport channels - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d	Computed Gain Factors (The last TFC is set to Signalled Gain Factors) 10 (below 64 kbps) 8 (higher than 64 kbps) 15 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)
Added or Reconfigured DL TrCH information - MAC-d PDU size	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10, with the following exception; 656
Maximum allowed UL TX power	24dBm
CHOICE channel requirement - Δ_{ACK} - Δ_{NACK}	6 6

Downlink HS-PDSCH Information	
- Measurement Feedback Info	
- POhsdsch	9dB
- CQI Feedback cycle, k	10ms
- Δ_{CQI}	3

CELL UPDATE (Step 3)

The same message found in TS 34.108 clause 9 shall be transmitted by the UE on the uplink CCCH, with the exception of the following IEs:

Information Element	Value/remark
U-RNTI	
- S-RNTI	Check to see if set to value assigned in cell 1.
- SRNC Identity	Check to see if set to value assigned in cell 1.
Cell Update Cause	Check to see if set to "Radio link failure"

CELL UPDATE CONFIRM (Step 4)

Use the same message sub-type found in TS 34.108 clause 9, with the following exceptions:

Information Element	Value/remark
New H-RNTI	'0101 0101 0101 0101- 0101 '
RRC State indicator	CELL_DCH
RLC re-establish indicator (RB2, RB3 and RB4)	TRUE
UL Transport channel information common for all transport channels	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9, with the following exceptions;
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled Gain Factors)
- Gainfactor β_c	10 (below 64 kbps) 8 (higher than 64 kbps)
- Gain factor β_d	15 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)
DL Transport channel information common for all transport channels	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9.

Added or Reconfigured DL TrCH information list - MAC-d PDU size	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A10. 656
Frequency info - UARFCN uplink (Nu) - UARFCN downlink (Nd)	Same uplink UARFCN as used for cell 6 Same downlink UARFCN as used for cell 6
CHOICE channel requirement - Δ_{ACK} - Δ_{NACK}	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9, with the following exceptions; 6 6
Downlink HS-PDSCH Information - Measurement Feedback Info - POhsdsch - CQI Feedback cycle, k - Δ_{CQI}	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9, with the following exceptions; 9dB 10ms 3
Downlink information common for all radio links - Timing indicator	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9, with the following exception; Initialise
Downlink information per radio link list - Primary CPICH info - Primary scrambling code	Same as the set defined in RADIO BEARER SETUP message found in TS 34.108 clause 9 under condition A9, with the following exception; 350

8.3.1.37 .5 Test requirement

After step 2, the UE shall transmit a CELL UPDATE message.

After step 4, the UE shall transmit a TRANSPORT CHANNEL RECONFIGURATION COMPLETE message and start reception of HS-DSCH.

CHANGE REQUEST

34.123-1 CR 1225 rev - Current version: 5.11.1

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:	Correction to GCF WI-014 RRC HSDPA test case 8.2.1.28		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	06/04/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	In the Radio Bearer Setup message at step 1 the IE 'DL Transport channel information common for all transport channel' is taken from the default message for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS". As the PS RB is mapped on HS-DSCH in the default message this IE only contains CTFC's (0 & 1) for the transport channel corresponding to the SRB's. It is not suitable for this test case, where we want the PS RB to be mapped on top of DCH. Revision of R5-050602: In the Radio Bearer Setup message at step 1 the IE 'UL channel requirement' is taken from the default message for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS". This IE contains Ack-Nack parameters that are not needed by a cell not supporting HS-DSCH.
Summary of change:	In the Radio Bearer Setup message at step 1, for the IE 'DL Transport channel information common for all transport channel', use the same message as specified for "Packet to CELL_DCH from CELL_DCH in PS" in TS 34.108. Revision of R5-050602: In the Radio Bearer Setup message at step 1, for the IE 'UL channel requirement', use the same message as specified for "Packet to CELL_DCH from CELL_DCH in PS" in TS 34.108.
Consequences if not approved:	The test case prose could cause a conformant UE to fail.

Clauses affected:	8.2.1.28
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Other specs affected:	<input type="checkbox"/>	Y	N	Other core specifications Test specifications O&M Specifications	<input type="checkbox"/>
	<input checked="" type="checkbox"/>		X		
	<input checked="" type="checkbox"/>		X		
Other comments:	<input checked="" type="checkbox"/>	No TTCN impact			

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.

8.2.1.28 Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (RB mapping for both DL DCH and HS-DSCH in cell without HS-DSCH support)

8.2.1.28.1 Definition and applicability

All UEs which support FDD and HS-PDSCH.

8.2.1.28.2 Conformance requirement

In case the procedure was triggered by reception of a RADIO BEARER SETUP message, the UE shall:

- 1> transmit a RADIO BEARER SETUP COMPLETE as response message on the uplink DCCH using AM RLC.

...

The variable HS_DSCH_RECEPTION shall be set to "TRUE" only when all the following conditions are met:

- 1> the UE is in CELL_DCH state;
- 1> the variable H_RNTI is set;
- 1> the UE has a stored IE "HS-SCCH info";
- 1> for FDD:
 - 2> one of the radio links in the active set is configured as the serving HS-DSCH radio link;
 - 2> the UE has stored the following IEs:
 - IE "Measurement Feedback Info";
 - IE "Uplink DPCH Power Control Info" including stored Δ_{ACK} , Δ_{NACK} and Ack-NACK Repetition factor;
 - IE "HARQ info".
- 1> there is at least one RB mapped to HS-DSCH;
- 1> at least for one of the RB's mapped to HS-DSCH, there is at least one MAC-hs queue (including the IE "MAC-d PDU size Info") configured for the concerning MAC-d flow;

NOTE: To enable or disable HS-DSCH reception, the UTRAN has the possibility to add/remove the concerning HS-DSCH related RB mapping options, add/remove the concerning MAC-d flows or, for FDD, add/remove the serving HS-DSCH radio link.

If any of the above conditions is not met and the variable HS_DSCH_RECEPTION is set to TRUE, the UE shall:

- 1> set the variable HS_DSCH_RECEPTION to FALSE;
- 1> stop any HS_SCCH reception procedures;
- 1> stop any HS-DSCH reception procedures;
- 1> clear the variable H_RNTI and remove any stored H-RNTI;
- 1> act as if the IE "MAC-hs reset indicator" is received and set to TRUE;
- 1> release all HARQ resources;
- 1> no long consider any radio link to be the HS-DSCH serving radio link.

NOTE: If configured for HS-DSCH and not explicitly indicated as being cleared, the UE will have still stored the IEs "HARQ info", "Added or Reconfigured MAC-d flow", "RB mapping Info" and "Downlink HS-PDSCH information".

Whenever the variable HS_DSCH_RECEPTION is set to TRUE, the UE shall:

1> perform HS_SCCH reception procedures according to the stored HS-SCCH configuration as stated in:

2> subclause 8.6.6.33 for the IE "HS-SCCH Info".

1> perform HS-DSCH reception procedures according to the stored HS-PDSCH configuration as stated in:

2> subclause 8.6.3.1b for the IE "H-RNTI";

2> subclause 8.6.5.6b for the IE "HARQ info";

2> subclause 8.6.6.34 for the IE "Measurement Feedback Info".

Whenever the variable HS_DSCH_RECEPTION is set to FALSE, the UE shall:

1> not perform HS_SCCH reception procedures;

1> not perform HS-DSCH reception procedures.

...

If the UE receives a message in which presence is needed for the IE "Activation time", and the value is other than the default value "Now", the UE shall:

1> at the activation time T:

2> for an HS-DSCH related reconfiguration caused by the received message:

3> select the HS-SCCH subframe boundary immediately before the first HS-SCCH subframe, which entirely falls within the 10 ms frame following T;

3> start using, at that HS-SCCH subframe boundary, the new HS-DSCH configuration in the received message, replacing any old HS-DSCH configuration.

2> for actions, other than a physical channel reconfiguration, caused by the received message:

3> perform the actions for the information elements in the received message as specified elsewhere.

NOTE: An "HS-DSCH related reconfiguration" includes, in particular, reconfigurations that need to be time-aligned with the 2ms subframe of the HS-SCCH, HS-PDSCH and/or HS-DPCCH. For example, start and stop of HS-SCCH reception and serving HS-DSCH cell change.

...

If the IE "New H-RNTI" is included and the UE will be in CELL_DCH state after completion of this procedure, the UE shall:

1> if the IE "Downlink HS-PDSCH Information" is also included and the UE would enter CELL_DCH state according to subclause 8.6.3.3 of TS 25.331 applied on the received message:

2> store the value in the variable H_RNTI.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

1> use the value of the variable H_RNTI as UE identity in the HS-SCCH reception procedure in the physical layer.

...

If the IE "Added or Reconfigured DL TrCH information" is included then for the transport channel identified by the IE "DL Transport Channel Identity" the UE shall:

1> if the choice "DL parameters" is set to 'HSDSCH':

2> if the IE "HARQ Info" is included:

3> perform the actions specified in subclause 8.6.5.6b of TS 25.331.

...

If the IE "HS-SCCH Info" is included and the UE will be in CELL_DCH state after completion of this procedure, the UE shall:

1> store the received configuration.

1> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25. When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

1> in the case of FDD:

2> receive the HS-SCCH(s) according to the IE "HS-SCCH channelisation code" on the serving HS-DSCH radio link applying the scrambling code as received in the IE "DL Scrambling code".

...

If the IE "Measurement Feedback Info" is included and the UE will be in CELL_DCH state after completion of this procedure, the UE shall:

1> store the received configuration.

1> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25.

When the variable HS_DSCH_RECEPTION is set to TRUE the UE shall:

1> use the information for the channel quality indication (CQI) procedure in the physical layer on the serving HS-DSCH radio link.

Reference

3GPP TS 25.331 clauses 8.2.2, 8.5.25, 8.6.3.1, 8.6.3.1b, 8.6.5.6, 8.6.6.33, 8.6.6.34

8.2.1.28.3 Test purpose

To confirm that the UE establishes a radio bearer mapped to DCH and HS-DSCH according to the received RADIO BEARER SETUP message in a cell without HS-DSCH.

8.2.1.28.4 Method of test

Initial Condition

System Simulator: 1 cell

UE: PS_DCCH_DCH (state 6-7) as specified in clause 7.4 of TS 34.108.

Related ICS/IXIT statement(s)

- UE supports FDD
- UE supports HS-PDSCH

Test Procedure

The UE is in CELL_DCH state. Only signalling radio bearers have been established.

The test operator is prompted to make an out-going call. The SS transmits a RADIO BEARER SETUP message to the UE. This message requests the establishment of radio bearer with RB mapping to DCH and HS-DSCH. After the UE receives this message, it establishes a radio bearer and maps it to the DCH. Finally the UE transmits a RADIO BEARER SETUP COMPLETE message using AM RLC. SS calls for generic procedure C.3 to check that UE is in CELL_DCH state.

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
1	←		RADIO BEARER SETUP	
2	→		RADIO BEARER SETUP COMPLETE	
3	↔		CALL C.3	If the test result of C.3 indicates that UE is in CELL_DCH state, the test passes, otherwise it fails.

Specific Message Contents

RADIO BEARER SETUP (Step 1)

Use the same message as specified for " Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" in 34.108, except for the following:

Information Element	Value/remark
New H-RNTI	Not present
RAB information for setup	(high-speed AM DTCH for PS domain)
- RAB info	0000 0110B
- RAB identity	The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	useT315
- RB information to setup	(high-speed AM DTCH)
- RB identity	25
- PDCP info	Not Present
- PDCP SN info	Not Present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- CHOICE SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- CHOICE Downlink RLC PDU Size	Reference to TS34.108 clause 6 Parameter Set
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- One sided RLC re-establishment	FALSE
- RB mapping info	Same as specified for " Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" in 34.108
DL Transport channel information common for all transport channel	Same as specified for "Packet to CELL_DCH from CELL_DCH in PS" in TS 34.108
Added or Reconfigured DL TrCH information	Same as specified for "Packet to CELL_DCH from CELL_DCH in PS" in TS 34.108
CHOICE channel requirement	Same as specified for "Packet to CELL_DCH from CELL_DCH in PS" in TS 34.108
Downlink HS-PDSCH Information	Not Present
Downlink information per radio link list	Same as specified for "Packet to CELL_DCH from CELL_DCH in PS" in TS 34.108

8.2.1.28.5 Test requirements

After step 1, the UE shall transmit a RADIO BEARER SETUP COMPLETE message.

CHANGE REQUEST

34.123-1 CR 1226 rev - Current version: **5.11.1**

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:	CR to 34.123-1Rel-5: Message Content Correction for TDD in 8.4.1.24		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	LCR TDD	Date:	20/03/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	<ol style="list-style-type: none"> In message of MEASUREMENT CONTROL (Step 1) (1.28 Mcps TDD), Measurement reporting mode shall not be set to 'not present'. In message of MEASUREMENT CONTROL (Step 1) (3.84 Mcps TDD), Measurement reporting mode shall not be set to 'not present'.
Summary of change:	<ol style="list-style-type: none"> To add Measurement reporting mode setting in message of MEASUREMENT CONTROL (Step 1) (1.28 Mcps TDD). To add Measurement reporting mode setting in message of MEASUREMENT CONTROL (Step 1) (3.84 Mcps TDD).
Consequences if not approved:	The test case will not executed rightly for TDD.

Clauses affected:	8.4.1.24										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">X</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table>	Y	N			X				Other core specifications	
	Y	N									
X											
		Test specifications									
		O&M Specifications									
Other comments:	The CR is only connected with TDD test cases.										

8.4.1.24 Measurement Control and Report: Inter-frequency measurement for event 2A

8.4.1.24.1 Definition

8.4.1.24.2 Conformance requirement

When event 2a is configured in the UE within a measurement, the UE shall:

- 1> when the measurement is initiated or resumed:
 - 2> store the used frequency in the variable BEST_FREQUENCY_2A_EVENT.
- 1> if equation 1 below has been fulfilled for a time period indicated by "Time to trigger" for a frequency included for that event and which is not stored in the variable BEST_FREQUENCY_2A_EVENT:
 - 2> send a measurement report with IEs set as below:
 - 3> set in "inter-frequency measurement event results":
 - 4> "inter-frequency event identity" to "2a"; and
 - 4> "Frequency info" to the frequency that triggered the event; and
 - 4> "Non frequency related measurement event results" to the "Primary CPICH info" of the best primary CPICH for FDD cells or "Primary CCPCH info" to the "Cells parameters ID" of the best primary CCPCH for TDD cells on that frequency, not taking into account the cell individual offset;
 - 3> if a non-used frequency triggered the measurement report:
 - 4> set the IE "measured results" and the IE "additional measured results" according to TS 25.331 subclause 8.4.2, not taking into account the cell individual offset;
 - 3> if the used frequency triggered the measurement report:
 - 4> do not include the IE "Inter-frequency measured results list" in the measurement report;
 - 2> update the variable BEST_FREQUENCY_2A_EVENT with that frequency.

Equation 1:

$$Q_{NotBest} \geq Q_{Best} + H_{2a} / 2$$

The variables in the formula are defined as follows:

$Q_{NotBest}$ is the quality estimate of a frequency not stored the "best frequency" in the variable BEST_FREQUENCY_2A_EVENT.

Q_{Best} is the quality estimate of the frequency stored in "best frequency" in the variable BEST_FREQUENCY_2A_EVENT.

H_{2a} is the hysteresis parameter for the event 2a in that measurement.

Reference

3GPP TS 25.331 clause 14.2.1.1

8.4.1.24.3 Test Purpose

- 1.A To confirm that the UE sends MEASUREMENT REPORT message if event 2A is configured, and if any of the non- used frequencies quality estimate becomes better than the currently used frequency quality estimate.

- 1.B To confirm that the UE does not send MEASUREMENT REPORT message indicating event 2A if hysteresis condition is not fulfilled.
- 1.C To confirm that the UE does not send MEASUREMENT REPORT message indicating event 2A if time to trigger condition is not fulfilled.

8.4.1.24.4 Method of test

Initial Condition

System Simulator: 2 cells – The initial configurations of the 2 cells in the SS shall follow the values indicated in the column marked "T0" in table 8.4.1.24-1. The table is found in "Test Procedure" clause.

UE: CS-DCCH+DTCH_DCH (State 6-9) or PS-DCCH+DTCH_DCH (State 6-10) in cell 1 as specified in clause 7.4 of TS 34.108, depending on the CN domain supported by the UE.

Related ICS/IXIT statements

- Compressed mode required yes/no

Test Procedure

Table 8.4.1.24-1 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution. Column marked "T0" denotes the initial conditions, while columns marked "T1", "T2", "T3", "T4" and "T5" are to be applied subsequently. The exact instants on which these values shall be applied are described in the text in this clause.

Table 8.4.1.24-1

Parameter	Unit	Cell 1						Cell 4					
		T0	T1	T2	T3	T4	T5	T0	T1	T2	T3	T4	T5
UTRA RF Channel Number		Ch. 1						Ch. 2					
CPICH Ec (FDD)	dBm /3.8 4 Mhz	-65	-65	-65	-70	-65	-70	-75	-60	-75	-55	-75	-55
P-CCPCH RSCP (TDD)	dBm	-65	-65	-65	-70	-65	-70	-75	-60	-75	-55	-75	-55
P-CCPCH TS (3.84Mcps TDD)		TS 0						TS 4					

The UE is initially in CELL_DCH state of cell 1. SS commands the UE to perform measurements of transmitted power using MEASUREMENT CONTROL message. This measurement is setup to confirm that while sending MEASUREMENT REPORT message, the UE sets IE "Additional measured results" correctly. If UE requires compressed mode (for FDD only), SS performs PHYSICAL CHANNEL RECONFIGURATION procedure to activate compressed mode. SS then commands the UE to perform Inter-frequency measurements and report event 2A by sending MEASUREMENT CONTROL message. In MEASUREMENT CONTROL message, IE "Hysteresis" is set to 14.5 dB and IE "Additional measurement list" is set to id of "UE Internal measurements" configured earlier. SS then configures itself according to the values in columns "T1" shown above. Even though quality estimate for Cell 4 has become better than that of Cell 1, event 2A will not be triggered since hysteresis condition is not fulfilled. SS then configures itself according to the values in columns "T2" shown above.

SS sends MEASUREMENT CONTROL message to modify parameter "Hysteresis" of Inter-frequency measurements to 1 dB. SS then configures Cell 1 and Cell 4 according to columns "T3" for short duration (less than 5 seconds), and then configures itself according to columns "T4" shown above. The UE will not send MEASUREMENT REPORT message because time to trigger condition is not fulfilled. SS then configures itself according to the values in columns "T5" shown above. The UE sends MEASUREMENT REPORT message reporting even 2A as well as measurement of transmitted power.

SS calls for generic procedure C.3 to check that UE is in CELL_DCH state.

Important Note: Duration between time instant "T3" and "T4" (between steps 9 and 10 of expected sequence) must be less than 5 seconds.

Expected Sequence

Step	Direction		Message	Comment
	UE	SS		
1		←	MEASUREMENT CONTROL	To setup UE Internal measurement. If Compressed Mode not required (refer ICS/IXIT) go to step 4
2		←	PHYSICAL CHANNEL RECONFIGURATION	SS instructs UE to begin compressed mode operation. (for FDD only)
3		→	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	(for FDD only)
4		←	MEASUREMENT CONTROL	SS commands the UE to perform Inter-frequency measurements and to report event 2A.
5				SS re-adjusts the downlink transmission power settings according to columns "T1" in table 8.4.1.24-1.
6				Check for 10 seconds, the UE shall not send MEASUREMENT REPORT message, as hysteresis condition is not fulfilled.
7				SS re-adjusts the downlink transmission power settings according to columns "T2" in table 8.4.1.24-1.
8		←	MEASUREMENT CONTROL	Modify hysteresis parameter for event 2A.
9				SS re-adjusts the downlink transmission power settings according to columns "T3" in table 8.4.1.24-1.
10				SS re-adjusts the downlink transmission power settings according to columns "T4" in table 8.4.1.24-1. This step should be completed within 5 seconds after completing step 9.
11				Check for 10 seconds, the UE shall not send MEASUREMENT REPORT message, as time to trigger condition is not fulfilled.
12				SS re-adjusts the downlink transmission power settings according to columns "T5" in table 8.4.1.24-1.
13		→	MEASUREMENT REPORT	This message should come at least 5 seconds later after changing power setting of Cell 4.
14		↔	CALL C.3	If the test result of C.3 indicates that UE is in CELL_DCH state, the test passes, otherwise it fails.

Specific Message Contents

All messages indicated below shall use the same content as described in default message content, with the following exceptions:

MEASUREMENT CONTROL (Step 1) (FDD)

Information Element	Value/remark
Measurement identity	1
Measurement command	Setup
CHOICE measurement type	UE internal measurement
- UE internal measurement quantity	UE transmitted power
- Measurement quantity	4
- Filter Coefficient	TRUE
- UE internal reporting quantity	FDD
- UE Transmitted Power	FALSE
- CHOICE mode	No reporting
- UE Rx-Tx time difference	
- CHOICE report criteria	
Measurement reporting mode	Acknowledged mode RLC
- Measurement Report Transfer Mode	Event Trigger Reporting Mode
- Periodical Reporting / Event Trigger Reporting Mode	Not present
Additional measurements list	Not present
DPCH compressed mode status	Not present

MEASUREMENT CONTROL (Step 1) (1.28 Mcps TDD)

Information Element	Value/remark
Measurement identity	1
Measurement command	Setup
CHOICE measurement type	UE internal measurement
- UE internal measurement quantity	UE transmitted power
- Measurement quantity	4
- Filter Coefficient	TRUE
- UE internal reporting quantity	TDD
- UE Transmitted Power	1.28 Mcps TDD
- CHOICE mode	FALSE
-CHOICE TDD option	No reporting
- T _{ADV} info	Not present
- CHOICE report criteria	Acknowledged mode RLC
Measurement reporting mode	Event Trigger Reporting Mode
- Measurement Report Transfer Mode	
- Periodical Reporting / Event Trigger Reporting Mode	
Additional measurements list	Not present
DPCH compressed mode status	Not present

MEASUREMENT CONTROL (Step 1) (3.84 Mcps TDD)

Information Element	Value/remark
Measurement identity	1
Measurement command	Setup
CHOICE measurement type	UE internal measurement
- UE internal measurement quantity	
- Measurement quantity	UE transmitted power
- Filter Coefficient	4
- UE internal reporting quantity	
- UE Transmitted Power	TRUE
- CHOICE mode	TDD
-CHOICE TDD option	3.84 Mcps TDD
- Applied TA	FALSE
- CHOICE report criteria	No reporting
Measurement reporting mode	Not present
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger Reporting Mode	Event Trigger Reporting Mode
Additional measurements list	Not present
DPCH compressed mode status	Not present

PHYSICAL CHANNEL RECONFIGURATION (Step 2) (FDD)

Use the same message sub-type found in clause 9 of TS 34.108, which is entitled "(Packet to CELL_DCH from CELL_DCH in PS)FDD", with the following exceptions in the IE(s) concerned:

Information Element	Value/remark
Downlink information common for all radio links <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing Indication - Downlink DPCH power control information - DPC mode - CHOICE Mode - Power offset PPilot-DPDCH - DL rate matching restriction information - Spreading factor - Fixed or flexible position - TFCI existence - Number of bits for Pilot bits (SF=128, 256) - DPCH compressed mode info - TGPSI - TGPS status flag - TGCFN - Transmission gap pattern sequence configuration parameters <ul style="list-style-type: none"> - TGMP - TGPRC - TGSN - TGL1 - TGL2 - TGD - TGPL1 - TGPL2 - RPP - ITP - CHOICE UL/DL mode - Downlink compressed mode method - Uplink compressed mode method - Downlink frame type - DeltaSIR1 - DeltaSIRAfter1 - DeltaSIR2 - DeltaSIRAfter2 - N identify abort - T Reconfirm abort - TX diversity mode - SSDT information - Default DPCH offset value 	Maintain 0 (Single) FDD 0 Not present Refer to the parameter set in TS 34.108 Flexible TRUE Not present 1 Activate (Current CFN+(256 – TTI/10msec)) mod 256 FDD Measurement Infinity 4 7 Not Present Undefined 3 Not Present Mode 0 Mode 0 UL and DL or DL only or UL only depending on UE capability SF/2 SF/2 or Not present depending on UE capability B 2.0 1.0 Not present Not present Not present Not present None Not present 0

MEASUREMENT CONTROL (Step 4) (FDD)

Information Element	Value/remark
Measurement identity	2
Measurement command	Setup
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency cell info list	Not present
- Inter-frequency cell removal	Not present
- New inter-frequency info list	Id of Cell 4
- Inter-frequency cell id	Frequency of Cell 4
- Frequency Information	Not present
- Cell info	Not present
- Cell individual offset	Not present
- Reference time difference to cell	Not present
- CHOICE mode	FDD
- Read SFN Indicator	FALSE
- Primary CPICH Info	Primary scrambling code of Cell 4
- Primary scrambling code	Not present
- Primary CPICH TX power	FALSE
- TX Diversity Indicator	FALSE
- Cell for measurement	Not present
- Inter-frequency measurement quantity	0
- Filter Coefficient	CPICH RSCP
- Frequency quality estimate quantity	FALSE
- Inter-frequency reporting quantity	FALSE
- UTRAN carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	FALSE
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CPICH Ec/No reporting indicator	FALSE
- CPICH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	CELL_DCH state
- Measurement validity	On with no reporting
- Inter-frequency SET UPDATE	Inter-frequency measurement reporting criteria
- UE autonomous update mode	2A
- CHOICE report criteria	Not present
- Parameters required for each events	0
- Inter-frequency event identity	14.5 dB
- Used frequency threshold	5000 mSec
- Used frequency W	Not present
- Hysteresis	-72 dBm
- Time to trigger	0
- Reporting cell status	Acknowledged mode RLC
- Non-used frequency parameter list	Event trigger
- Non-used frequency threshold	1
- Non-used frequency W	Not present
Measurement reporting mode	Not present
- Measurement reporting transfer mode	Not present
- Periodic reporting / Event trigger reporting mode	Not present
Additional measurement list	Not present
- Measurement identity	Not present
DPCH compressed mode status info	Not present

MEASUREMENT CONTROL (Step 4) (1.28 Mcps TDD)

Information Element	Value/remark
Measurement identity	2
Measurement command	Setup
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency measurement objects list	
- Inter-frequency cell removal	Not present
- New inter-frequency cells	
- Inter-frequency cell id	Id of Cell 4
- Frequency Info	Frequency of Cell 4
- Cell info	
- Cell individual offset	Not present
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	
-CHOICE TDD option	1.28 Mcps TDD
- Cell parameters ID	Cell parameters ID of Cell 4
- Primary CCPCH TX power	Not present
- Timeslot list	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Filter Coefficient	0
- Measurement quantity for frequency quality estimate	P-CCPCH RSCP
- Inter-frequency reporting quantity	
- UTRAN carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FALSE
- Measurement validity	CELL_DCH state
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	
- Inter-frequency event identity	2A
- Threshold used frequency	Not present
- W used frequency	0
- Hysteresis	14.5 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present
- Parameters required for each non-used frequency	
- Threshold non-used frequency	-72 dBm
- W non-used frequency	0
Measurement reporting mode	
- Measurement reporting transfer mode	Acknowledged mode RLC
- Periodic reporting / Event trigger reporting mode	Event trigger
Additional measurement list	
- Measurement identity	1
DPCH compressed mode status info	Not present

MEASUREMENT CONTROL (Step 4) (3.84 Mcps TDD)

Information Element	Value/remark
Measurement identity	2
Measurement command	Setup
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency measurement objects list	Not present
- Inter-frequency cell removal	Not present
- New inter-frequency cells	Id of Cell 4
- Inter-frequency cell id	Frequency of Cell 4
- Frequency Info	Not present
- Cell info	Not present
- Cell individual offset	Not present
- Reference time difference to cell	FALSE
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	TDD
- CHOICE mode	3.84 Mcps TDD
- CHOICE TDD option	SyncCase 1
- CHOICE SyncCase	4
- Timeslot	Cell parameters ID of Cell 4
- Cell parameters ID	FALSE
- SCTD indicator	FALSE
- Primary CCPCH TX power	Not present
- Timeslot list	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	Inter-frequency reporting criteria
- CHOICE reporting criteria	0
- Filter Coefficient	TDD
- CHOICE mode	P-CCPCH RSCP
- Measurement quantity for frequency quality estimate	
- Inter-frequency reporting quantity	FALSE
- UTRAN carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	No report
- SFN-SFN observed time difference reporting	
indicator	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FALSE
- Measurement validity	CELL_DCH state
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	
- Inter-frequency event identity	2A
- Threshold used frequency	Not present
- W used frequency	0
- Hysteresis	14.5 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present
- Parameters required for each non-used frequency	
- Threshold non-used frequency	-72 dBm
- W non-used frequency	0
Measurement reporting mode	
- Measurement reporting transfer mode	Acknowledged mode RLC
- Periodic reporting / Event trigger reporting mode	Event trigger
Additional measurement list	
- Measurement identity	1
DPCH compressed mode status info	Not present

MEASUREMENT CONTROL (Step 8)

Information Element	Value/remark
Measurement identity	2
Measurement command	Modify
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency cell info list	
- Inter-frequency cell removal	Not present
- New inter-frequency info list	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	Not present
- Inter-frequency reporting quantity	Not present
- Measurement validity	Not present
- UE autonomous update mode	Not present
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	
- Inter-frequency event identity	2A
- Threshold used frequency	Not present
- W used frequency	0
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present
- Parameters required for each non-used frequency	
- Threshold non-used frequency	-72 dBm
- W non-used frequency	0
Measurement reporting mode	Not present
Additional measurement list	Not present
DPCH compressed mode status info	Not present

MEASUREMENT REPORT (Step 13) (FDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 2
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	
- Measured results	UE internal measured results
- UE transmitted power	Check to see if it is present
- UE RX TX report entry list	Check to see if it is absent
Event results	Inter-frequency measurement event results, 2A
- Inter-frequency event identity	
- Cell measurement event results	
- Frequency info	Frequency of Cell 4
- Primary CPICH info	
- Primary scrambling code	Primary scrambling code of Cell 4

MEASUREMENT REPORT (Step 13) (1.28 Mcps TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 2
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	
- Measured results	UE internal measured results
- UE transmitted power	Check to see if it is present
- T _{ADV}	Check to see if it is absent
Event results	Check to see if set to "Inter-frequency measurement event results"
- Inter-frequency event identity	Check to see if set to "2A"
- Inter-frequency Cells	
- Frequency info	Check to see if set to Frequency of Cell 4
- Non frequency related measurement event results	
- CHOICE mode	Check to see if set to "TDD"
- Primary CCPCH info	
- Cell parameters ID	Check to see if set to Cell parameter ID of Cell 4

MEASUREMENT REPORT (Step 13) (3.84 Mcps TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 2
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	
- Measured results	UE internal measured results
CHOICE mode	Check to see if set to "TDD"
- UE transmitted power	Check to see if it is present
CHOICE TDD option	Check to see if set to "3.84 Mcps TDD"
- Applied TA	Check to see if it is absent
Event results	Check to see if set to "Inter-frequency measurement event results"
- Inter-frequency event identity	Check to see if set to "2A"
- Inter-frequency Cells	
- Frequency info	Check to see if set to Frequency of Cell 4
- Non frequency related measurement event results	
CHOICE mode	Check to see if set to "TDD"
- Primary CCPCH info	
CHOICE mode	Check to see if set to "TDD"
CHOICE TDD option	Check to see if set to "3.48 Mcps TDD"
CHOISE SyncCase	Check to see if set to "Sync Case 1"
- Timeslot	Check to see if set to "4"
- Cell parameters ID	Check to see if set to Cell parameter ID of Cell 4
- SCTD indicator	Check to see if set to "FALSE"

8.4.1.24.5 Test Requirement

- 1.A In step 13 the UE shall send MEASUREMENT REPORT message indicating event 2A. IE ' Inter-frequency Cells ' in MEASUREMENT REPORT message shall contain frequency information and primary scrambling code (for FDD) or Cell parameters ID (forTDD) of Cell 4.
- 1.B In step 6, the UE shall not send MEASUREMENT REPORT message.
- 1.C In step 11, the UE shall not send MEASUREMENT REPORT message.

CHANGE REQUEST

34.123-1 CR 1227 rev - Current version: **5.11.1**

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:	CR to 34.123-1Rel-5: Message Content Correction for TDD in 8.4.1.25		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	LCR TDD	Date:	20/03/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	<ol style="list-style-type: none"> 3. In message of MEASUREMENT CONTROL (Step 1)(1.28 Mcps TDD), IE 'Reporting cell status' for event 2E should be set to 'Not present'. 4. In message of MEASUREMENT CONTROL (Step 1)(3.84 Mcps TDD), IE 'Reporting cell status' for event 2E should be set to 'Not present'. 5. In message of MEASUREMENT REPORT (Step 4) (1.28 Mcps TDD), IE 'Measure result' should be changed to 'Not present' correspondingly. 6. In message of MEASUREMENT REPORT (Step 4) (3.84 Mcps TDD), IE 'Measure result' should be changed to 'Not present' correspondingly.
Summary of change:	<ol style="list-style-type: none"> 3. To set IE 'Reporting cell status' for event 2E to 'Not present' in message of MEASUREMENT CONTROL (Step 1)(1.28 Mcps TDD). 4. To set IE 'Reporting cell status' for event 2E to 'Not present' in message of MEASUREMENT CONTROL (Step 1)(3.84 Mcps TDD). 5. To set IE 'Measure result' for event 2E to 'Not present' in message of MEASUREMENT REPORT (Step 4) (1.28 Mcps TDD). 6. To set IE 'Measure result' for event 2E to 'Not present' in message of MEASUREMENT REPORT (Step 4) (3.84 Mcps TDD).
Consequences if not approved:	The test case will not executed rightly for TDD.

Clauses affected:	8.4.1.25								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>	Y	N	X				Other core specifications Test specifications O&M Specifications	
Y	N								
X									

Other comments: ☹ The CR is only connected with TDD test cases.

8.4.1.25 Measurement Control and Report: Inter-frequency measurement for events 2B and 2E

8.4.1.25.1 Definition

8.4.1.25.2 Conformance requirement

When event 2b is configured in the UE within a measurement, the UE shall:

- 1> if equations 1 and 2 below have been fulfilled for a time period indicated by "Time to Trigger" from the same instant, respectively for one or several non-used frequencies included for that event and for the used frequency:
- 2> if any of those non-used frequency is not stored in the variable TRIGGERED_2B_EVENT:
 - 3> store the non-used frequencies that triggered the event and that were not previously stored in the variable TRIGGERED_2B_EVENT into that variable;
 - 3> send a measurement report with IEs set as below:
 - 4> set in "inter-frequency measurement event results":
 - 5> "inter-frequency event identity" to "2b"; and
 - 5> for each non-used frequency that triggered the event, beginning with the best frequency:
 - 6> "Frequency info" to that non-used frequency; and
 - 6> "Non frequency related measurement event results" to the "Primary CPICH info" of the best primary CPICH for FDD cells or "Primary CCPCH info" to the "Cell parameters ID" of the best primary CCPCH for TDD cells on that non-used frequency, not taking into account the cell individual offset;
 - 4> set the IE "measured results" and the IE "additional measured results" according to TS 25.331 subclause 8.4.2, not taking into account the cell individual offset;
 - 1> if equation 3 below is fulfilled for a non-used frequency stored in the variable TRIGGERED_2B_EVENT:
 - 2> remove that non-used frequency from the variable TRIGGERED_2B_EVENT.
 - 1> if equation 4 below is fulfilled for the used frequency:
 - 2> clear the variable TRIGGERED_2B_EVENT.

Triggering conditions:

Equation 1:

$$Q_{Non\ used} \geq T_{Non\ used\ 2b} + H_{2b} / 2$$

The variables in the formula are defined as follows:

$Q_{Non\ used}$ is the quality estimate of a non-used frequency that becomes better than an absolute threshold.

$T_{Non\ used\ 2b}$ is the absolute threshold that applies for this non-used frequency in that measurement.

H_{2b} is the hysteresis parameter for the event 2b.

Equation 2:

$$Q_{Used} \leq T_{Used\ 2b} - H_{2b} / 2$$

The variables in the formula are defined as follows:

Q_{Used} is the quality estimate of the used frequency.

$T_{Used\ 2b}$ is the absolute threshold that applies for the used frequency in that measurement.

H_{2b} is the hysteresis parameter for the event 2b.

Leaving triggered state condition:

Equation 3:

$$Q_{Non\ used} < T_{Non\ used\ 2b} - H_{2b} / 2$$

The variables in the formula are defined as follows:

$Q_{Non\ used}$ is the quality estimate of a non-used frequency that is stored in the variable TRIGGERED_2B_EVENT.

$T_{Non\ used\ 2b}$ is the absolute threshold that applies for this non-used frequency in that measurement.

H_{2b} is the hysteresis parameter for the event 2b.

Equation 4:

$$Q_{Used} > T_{Used\ 2b} + H_{2b} / 2$$

The variables in the formula are defined as follows:

Q_{Used} is the quality estimate of the used frequency.

$T_{Used\ 2b}$ is the absolute threshold that applies for the used frequency in that measurement.

H_{2b} is the hysteresis parameter for the event 2b.

...

When event 2e is configured in the UE within a measurement, the UE shall:

- 1> if equation 1 below has been fulfilled for one or several non-used frequencies included for that event during the time "Time to trigger":
 - 2> if any of those non-used frequencies is not stored in the variable TRIGGERED_2E_EVENT:
 - 3> store the non-used frequencies that triggered the event and that were not previously stored in the variable TRIGGERED_2E_EVENT into that variable;
 - 3> send a measurement report with IEs set as below:
 - 4> set in "inter-frequency measurement event results":
 - 5> "inter-frequency event identity" to "2e"; and
 - 5> for each non-used frequency that triggered the event, beginning with the best frequency:
 - 6> "Frequency info" to that non-used frequency; and
 - 6> "Non frequency related measurement event results" to the "Primary CPICH info" of the best primary CPICH for FDD cells or "Primary CCPCH info" to the "Cell parameters ID" of the best primary CCPCH for TDD cells on that non-used frequency, not taking into account the cell individual offset;
 - 4> set the IE "measured results" and the IE "additional measured results" according to TS 25.331 subclause 8.4.2, not taking into account the cell individual offset;
 - 1> if equation 2 below is fulfilled for a non-used frequency stored in the variable TRIGGERED_2E_EVENT:
 - 2> remove that non-used frequency from the variable TRIGGERED_2E_EVENT.

Triggering condition:

Equation 1:

$$Q_{Non\ used} \leq T_{Non\ used\ 2e} - H_{2e} / 2$$

The variables in the formula are defined as follows:

$Q_{Non\ used}$ is the quality estimate of a non-used frequency that becomes worse than an absolute threshold.

$T_{Non\ used\ 2e}$ is the absolute threshold that applies for that non-used frequency for that event.

H_{2e} is the hysteresis parameter for the event 2e.

Leaving triggered state condition:

Equation 2:

$$Q_{Non\ used} > T_{Non\ used\ 2e} + H_{2e} / 2$$

The variables in the formula are defined as follows:

$Q_{Non\ used}$ is the quality estimate of a non-used frequency stored in the variable TRIGGERED_2E_EVENT.

$T_{Non\ used\ 2e}$ is the absolute threshold that applies for that non-used frequency for that event.

H_{2e} is the hysteresis parameter for the event 2e.

Reference

3GPP TS 25.331 clause 14.2.1.2, 14.2.1.5.

8.4.1.25.3 Test Purpose

1. To confirm that the UE sends MEASUREMENT REPORT message when event 2E is configured and the estimated quality of a non-used frequency is below the value of the IE "Threshold non-used frequency". This MEASUREMENT REPORT message shall contain at least the best primary CPICH info (for FDD) or primary CCPCH info (for TDD) on the non-used frequency that triggered the event.
2. To confirm that the UE sends MEASUREMENT REPORT message when event 2B is configured and estimated quality of the currently used frequency is below the value of the IE "Threshold used frequency" and the estimated quality of a non-used frequency is above the value of the IE "Threshold non-used frequency". This MEASUREMENT REPORT message shall contain at least the best primary CPICH info (for FDD) or primary CCPCH info (for TDD) on the non-used frequency that triggered the event.

8.4.1.25.4 Method of test

Initial Condition

System Simulator: 2 cells – The initial configurations of the 2 cells in the SS shall follow the values indicated in the column marked "T0" in table 8.4.1.24-1. The table is found in "Test Procedure" clause.

UE: CS-DCCH+DTCH_DCH (State 6-9) or PS-DCCH+DTCH_DCH (State 6-10) in cell 1 as specified in clause 7.4 of TS 34.108, depending on the CN domain supported by the UE.

Related ICS/IXIT statements

- Compressed mode required yes/no

Test Procedure

Table 8.4.1.25-1 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution. Column marked "T0" denotes the initial conditions, while columns marked "T1" and "T2" are to be applied subsequently. The exact instants on which these values shall be applied are described in the text in this clause.

Table 8.4.1.25-1

Parameter	Unit	Cell 1			Cell 4		
		T0	T1	T2	T0	T1	T2
UTRA RF Channel Number		Ch. 1			Ch. 2		
CPICH Ec (FDD)	dBm /3.8 4 MHz	-55	-55	-85	-85	-55	-55
P-CCPCH RSCP(TDD)	dBm	-60	-60	-80	-80	-60	-60
P-CCPCH TS (3.84 Mcps TDD)		TS 0			TS 4		

The UE is initially in CELL_DCH state of cell 1. SS commands the UE to perform Inter-frequency measurements and report event 2B and event 2E by sending MEASUREMENT CONTROL message. Note that the Filter Coefficient IE has a value of 4 so Layer 3 Filtering applies in this case.

If UE requires compressed mode, SS performs PHYSICAL CHANNEL RECONFIGURATION procedure to activate compressed mode (for FDD only).

Since quality estimate of non-used frequency is below threshold, the UE sends MEASUREMENT REPORT message indicating event 2E.

SS then configures itself according to the values in columns "T1" shown above. Now quality estimate of used and non-used frequency is above threshold and hence neither event 2B nor event 2E will be triggered. SS then configures itself according to the values in columns "T2" shown above. Quality estimate for used frequency is now below threshold, while that of non-used frequency is above threshold, the UE sends MEASUREMENT REPORT message to report event 2B.

SS calls for generic procedure C.3 to check that UE is in CELL_DCH state.

Expected Sequence

Step	Direction		Message	Comment
	UE	SS		
1		←	MEASUREMENT CONTROL	SS commands the UE to perform Inter-frequency measurements and to report event 2B and 2E. If Compressed Mode not required (refer ICS/IXIT) go to step 4
2		←	PHYSICAL CHANNEL RECONFIGURATION	SS instructs UE to begin compressed mode operation. (for FDD only)
3		→	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	(for FDD only)
4		→	MEASUREMENT REPORT	The UE shall report event 2E. Time duration between activation of compressed mode and reception of this message should be at least 5 seconds. Layer 3 Filtering causes an additional delay.
5				SS re-adjusts the downlink transmission power settings according to columns "T1" in table 8.4.1.25-1.
6				Check for 10 seconds the UE shall not send measurement report message.
7				SS re-adjusts the downlink transmission power settings according to columns "T2" in table 8.4.1.25-1.
8		→	MEASUREMENT REPORT	The UE shall report event 2B. Time duration between changing power levels according to columns "T2" and reception of this message should be at least 5 seconds. Layer 3 Filtering causes an additional delay. For Cell 1 the CPICH Ec value of -80 dBm(for FDD)or the P-CCPCH RSCP value of -75 dBm (for TDD) would have to be reported at least three times from the Physical Layer to cause the Cell 1 frequency threshold to be reached. Depending on tolerance values this number will be greater (CPICH Ec (for FDD) or P-CCPCH RSCP(for TDD) is +/- 3 dBm, SS set Hysteresis value is +/- 2dB)
9		↔	CALL C.3	If the test result of C.3 indicates that UE is in CELL_DCH state, the test passes, otherwise it fails.

Specific Message Contents

All messages indicated below shall use the same content as described in default message content, with the following exceptions:

MEASUREMENT CONTROL (Step 1)(FDD)

Information Element	Value/remark
Measurement identity	4
Measurement command	Setup
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency cell info list	Not present
- Inter-frequency cell removal	Not present
- New inter-frequency info list	Id of Cell 4
- Inter-frequency cell id	Frequency of Cell 4
- Frequency Information	Not present
- Cell info	Not present
- Cell individual offset	Not present
- Reference time difference to cell	Not present
- CHOICE mode	FDD
- Read SFN Indicator	FALSE
- Primary CPICH Info	Primary scrambling code of Cell 4
- Primary scrambling code	Not present
- Primary CPICH TX power	FALSE
- TX Diversity Indicator	FALSE
- Cell for measurement	Not present
- Inter-frequency measurement quantity	4
- Filter Coefficient	CPICH Ec/No
- Frequency quality estimate quantity	FALSE
- Inter-frequency reporting quantity	FALSE
- UTRAN Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	FALSE
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CPICH Ec/No reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Measurement validity	Not present
- Inter-frequency SET UPDATE	On with no reporting
- UE autonomous update mode	Inter-frequency measurement reporting criteria
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	2E
- Inter-frequency event identity	1 dB
- Hysteresis	5000 mSec
- Time to trigger	Not present
- Reporting cell status	Not present
- Non used frequency parameter list	-70 dBm
- Non used frequency threshold	0
- Non used frequency W	0
- Inter-frequency event identity	2B
- Used frequency threshold	-70 dBm
- Used frequency W	0.4
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Within active set or within virtual active set or of the other RAT
- Maximum number of reporting cells	1
- Non used frequency parameter list	-70 dBm
- Non used frequency threshold	0
- Non used frequency W	0
Measurement reporting mode	Unacknowledged Mode RLC
- Measurement reporting transfer mode	Event trigger
- Periodic reporting / Event trigger reporting mode	Not present
Additional measurement list	Not present
DPCH compressed mode status info	Not present

MEASUREMENT CONTROL (Step 1)(1.28 Mcps TDD)

Information Element	Value/remark
Measurement identity	4
Measurement command	Setup
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency measurement objects list	
- Inter-frequency cell removal	Not present
- New inter-frequency cells	
- Inter-frequency cell id	Id of Cell 4
- Frequency Information	Frequency of Cell 4
- Cell info	
- Cell individual offset	Not present
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- TSTD Indicator	FALSE
- Cell parameters ID	Cell parameters ID of Cell 4
- Primary CCPCH TX power	Not present
- Timeslot list	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Filter Coefficient	4
- CHOICE mode	TDD
- Measurement quantity for frequency quality estimate	P-CCPCH RSCP
- Inter-frequency reporting quantity	
- UTRAN Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Measurement validity	Not present
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	
- Inter-frequency event identity	2E
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present Within active set or within virtual active set or of the other RAT
- Parameters required for each non-used frequency	
- Threshold non used frequency	-70dBm
- W non-used frequency	0
- Inter-frequency event identity	2B
- Threshold used frequency	-70 dBm
- W used frequency	0.4
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Within active set or within virtual active set or of the other RAT
- Maximum number of reporting cells	1
- Parameters required for each non-used frequency	
- Threshold non used frequency	-70 dBm
- W non-used frequency	0
Measurement reporting mode	
- Measurement reporting transfer mode	Unacknowledged Mode RLC

- Periodic reporting / Event trigger reporting mode	Event trigger
Additional measurement list	Not present
DPCH compressed mode status info	Not present

MEASUREMENT CONTROL (Step 1)(3.84 Mcps TDD)

Information Element	Value/remark
Measurement identity	4
Measurement command	Setup
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency measurement objects list	
- Inter-frequency cell removal	Not present
- New inter-frequency cells	
- Inter-frequency cell id	Id of Cell 4
- Frequency Information	Frequency of Cell 4
- Cell info	
- Cell individual offset	Not present
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- CHOICE SyncCase	SyncCase 1
- Timeslot	4
- Cell parameters ID	Cell parameters ID of Cell 4
- SCTD indicator	FALSE
- Primary CCPCH TX power	Not present
- Timeslot list	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Filter Coefficient	4
- CHOICE mode	TDD
- Measurement quantity for frequency quality estimate	P-CCPCH RSCP
- Inter-frequency reporting quantity	
- UTRAN Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Measurement validity	Not present
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	
- Inter-frequency event identity	2E
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present Within active set or within virtual active set or of the other RAT
- Parameters required for each non-used frequency	
- Threshold non used frequency	-70dBm
- W non-used frequency	0
- Inter-frequency event identity	2B
- Threshold used frequency	-70 dBm
- W used frequency	0.4
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Within active set or within virtual active set or of the other RAT
- Maximum number of reporting cells	1
- Parameters required for each non-used frequency	
- Threshold non used frequency	-70 dBm
- W non-used frequency	0

Measurement reporting mode - Measurement reporting transfer mode - Periodic reporting / Event trigger reporting mode Additional measurement list DPCH compressed mode status info	Unacknowledged Mode RLC Event trigger Not present Not present
---	--

PHYSICAL CHANNEL RECONFIGURATION (Step 2)

Use the same message sub-type found in Annex A, which is entitled "(Packet to CELL_DCH from CELL_DCH in PS)", with the following exceptions in the IE(s) concerned:

Information Element	Value/remark
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	Maintain
- Timing Indication	
- Downlink DPCH power control information	
- DPC mode	0 (Single)
- CHOICE Mode	FDD
- Power offset PPilot-DPDCH	0
- DL rate matching restriction information	Not present
- Spreading factor	Refer to the parameter set in TS 34.108
- Fixed or flexible position	Flexible
- TFCI existence	TRUE
- Number of bits for Pilot bits (SF=128, 256)	Not present
- DPCH compressed mode info	
- TGPSI	1
- TGPS status flag	Activate
- TGCFN	(Current CFN+(256 – TTI/10msec)) mod 256
- Transmission gap pattern sequence	
configuration parameters	
- TGMP	FDD Measurement
- TGPRC	Infinity
- TGSN	4
- TGL1	7
- TGL2	Not Present
- TGD	Undefined
- TGPL1	3
- TGPL2	Not Present
- RPP	Mode 0
- ITP	Mode 0
- CHOICE UL/DL mode	UL and DL or DL only or UL only depending on UE capability
- Downlink compressed mode method	SF/2
- Uplink compressed mode method	SF/2 or Not present depending on UE capability
- Downlink frame type	A
- DeltaSIR1	2.0
- DeltaSIRAfter1	1.0
- DeltaSIR2	Not present
- DeltaSIRAfter2	Not present
- N identify abort	Not present
- T Reconfirm abort	Not present
- TX diversity mode	None
- SSDT information	Not present
- Default DPCH offset value	0

MEASUREMENT REPORT (Step 4) (FDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 4
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	Inter-frequency measurement event results, 2E
- Inter-frequency event identity	
- Cell measurement event results	
- Frequency info	Frequency of Cell 4
- Primary CPICH info	
- Primary scrambling code	Primary scrambling code of Cell 4

MEASUREMENT REPORT (Step 4) (1.28 Mcps TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 4
Measured results	Check to see if it is absent Check to see if it set to "Inter-frequency measured results list"
Frequency information	Check to see if set to Frequency of Cell 4
UTRA carrier RSSI	Check to see if it is absent
Inter-frequency cell measured results	
Cell measurement results	
Cell Identity	Check to see if it is absent
Cell synchronisation information	Check to see if this IE is absent
CHOICE mode	Check to see if set to "TDD"
Cell parameters ID	Check to see if set to Cell parameters ID for cell 4
Proposed TGSN	Check to see if it is absent
Primary CCPCH RSCP	Check to see if it is present
Pathloss	Check to see if it is absent
Timeslot List/ISCP	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	
- CHOICE event results	Check to see if set to "Inter-frequency measurement event results"
- Inter-frequency event identity	Check to see if set to "2E"
- Inter-frequency cells	
- Frequency info	Check to see if set to Frequency of Cell 4
- Non-frequency related measurement event results	
- CHOICE mode	Check to see if set to "TDD"
- Primary CCPCH info	
- CHOICE mode	Check to see if set to "TDD"
- CHOICE mode option	Check to see if set to "1.28 Mcps TDD"
- TSTD Indicator	Check to see if set to "FALSE"
- Cell parameters ID	Check to see if set to Cell parameters ID of Cell 4
- SCTD Indicator	Check to see if set to "FALSE"

MEASUREMENT REPORT (Step 4) (3.48 Mcps TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 4
Measured results	Check to see if it is absent
Inter-frequency cell measured results	Check to see if it set to "Inter-frequency measured results list"
Frequency information	Check to see if set to Frequency of Cell 4
UTRA carrier RSSI	Check to see if it is absent
Cell measurement results	
Cell Identity	Check to see if it is absent
Cell synchronisation information	Check to see if this IE is absent
CHOICE mode	Check to see if set to "TDD"
Cell parameters ID	Check to see if set to Cell parameters ID for cell 4
Proposed TGSN	Check to see if it is absent
Primary CCPCH RSCP	Check to see if it is present
Pathloss	Check to see if it is absent
Timeslot list/ISCP	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	
- CHOICE event results	Check to see if set to "Inter-frequency measurement event results"
- Inter-frequency event identity	Check to see if set to "2E"
- Inter-frequency cells	
- Frequency info	Check to see if set to Frequency of Cell 4
- Non-frequency related measurement event results	
- CHOICE mode	Check to see if set to "TDD"
- Primary CCPCH info	
CHOICE mode	Check to see if set to "TDD"
- CHOICE mode option	Check to see if set to "3.48 Mcps TDD"
CHOISE SyncCase	Check to see if set to "Sync Case 1"
- Timeslot	Check to see if set to "4"
- Cell parameters ID	Check to see if set to Cell parameters ID of Cell 4
- SCTD indicator	Check to see if set to "FALSE"

MEASUREMENT REPORT (Step 8) (FDD)

Information Element	Value/remark
Measurement identity	4
Measured results	Inter-frequency measured results
- Frequency information	Frequency of Cell 4
- UTRA carrier RSSI	Check to see if it is absent
- Inter-frequency cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- Mode Specific Info	FDD
- Primary CPICH Info	
- Primary scrambling code	Primary scrambling code for cell 4
- CPICH Ec/No	Check to see if it is absent
- CPICH RSCP	Check to see if it is present
- Pathloss	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	Inter-frequency measurement event results, 2B
- Inter-frequency event identity	
- Cell measurement event results	
- Frequency info	Frequency of Cell 4
- Primary CPICH info	
- Primary scrambling code	Primary scrambling code of Cell 4

MEASUREMENT REPORT (Step 8) (1.28 Mcps TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 4
Measured results	Check to see if it set to "Inter-frequency measured results list"
- Frequency information	Check to see if set to Frequency of Cell 4
- UTRA carrier RSSI	Check to see if it is absent
- Inter-frequency cell measured results	
- Cell measurement results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	Check to see if set to "TDD"
- Cell parameters ID	Check to see if set to Cell parameters ID for cell 4
- Proposed TGSN	Check to see if it is absent
- Primary CCPCH RSCP	Check to see if it is present
- Pathloss	Check to see if it is absent
- Timeslot List/ISCP	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	
- CHOICE event results	Check to see if set to "Inter-frequency measurement event results"
- Inter-frequency event identity	Check to see if set to "2B"
- Inter-frequency cells	
- Frequency info	Check to see if set to Frequency of Cell 4
- Non-frequency related measurement event results	
- CHOICE mode	Check to see if set to "TDD"
- Primary CCPCH info	
- CHOICE mode	Check to see if set to "TDD"
- CHOICE mode option	Check to see if set to "1.28 Mcps TDD"
- TSTD Indicator	Check to see if set to "FALSE"
- Cell parameters ID	Check to see if set to Cell parameters ID of Cell 4
- SCTD Indicator	Check to see if set to "FALSE"

MEASUREMENT REPORT (Step 8) (3.84Mcps TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 4
Measured results	Check to see if it set to "Inter-frequency measured results list"
- Frequency information	Check to see if set to Frequency of Cell 4
- UTRA carrier RSSI	Check to see if it is absent
- Inter-frequency cell measured results	
- Cell measurement results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	Check to see if set to "TDD"
- Cell parameters ID	Check to see if set to Cell parameters ID for cell 4
- Proposed TGSN	Check to see if it is absent
- Primary CCPCH RSCP	Check to see if it is present
- Pathloss	Check to see if it is absent
- Timeslot list/ISCP	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	
- CHOICE event results	Check to see if set to "Inter-frequency measurement event results"
- Inter-frequency event identity	Check to see if set to "2B"
- Inter-frequency cells	
- Frequency info	Check to see if set to Frequency of Cell 4
- Non-frequency related measurement event results	
- CHOICE mode	Check to see if set to "TDD"
- Primary CCPCH info	
CHOICE mode	Check to see if set to "TDD"
- CHOICE mode option	Check to see if set to "3.84 Mcps TDD"
CHOISE SyncCase	Check to see if set to "Sync Case 1"
- Timeslot	Check to see if set to "4"
- Cell parameters ID	Check to see if set to Cell parameters ID of Cell 4
- SCTD indicator	Check to see if set to "FALSE"

8.4.1.25.5 Test Requirement

1. In step 4 the UE shall send MEASUREMENT REPORT message indicating event 2E. IE "Cell measurement event results" in this message shall contain frequency information and primary scrambling code(for FDD) or Cell parameters ID (TDD) of Cell 4.
2. In step 8 the UE shall send MEASUREMENT REPORT message indicating event 2B. IE "Cell measurement event results" in this message shall contain frequency information and primary scrambling code (for FDD) or Cell parameters ID (TDD) of Cell 4.

CHANGE REQUEST

34.123-1 CR 1228 rev - Current version: **5.11.1**

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:	CR to 34.123-1Rel-5: Message Content Correction for TDD in 8.4.1.26		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	LCR TDD	Date:	20/03/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	7. In message of MEASUREMENT CONTROL (Step 4)(1.28 Mcps TDD), IE 'Reporting cell status' for event 2D and 2F should be set to 'Not present'. 8. In message of MEASUREMENT CONTROL (Step 4)(3.84 Mcps TDD), IE 'Reporting cell status' for event 2D and 2F should be set to 'Not present'.
Summary of change:	1.7. To set IE 'Reporting cell status' for event 2D and 2F to 'Not present in message of MEASUREMENT CONTROL (Step 4)(1.28 Mcps TDD). 8. To set IE 'Reporting cell status' for event 2D and 2F to 'Not present in message of MEASUREMENT CONTROL (Step 4)(3.84 Mcps TDD).
Consequences if not approved:	The test case will not executed rightly for TDD.

Clauses affected:	8.4.1.26										
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> </td> <td> </td> </tr> <tr> <td>X</td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N			X					
Y	N										
X											
Other comments:	The CR is only connected with TDD test cases.										

8.4.1.26 Measurement Control and Report: Measurement for events 2D and 2F

8.4.1.26.1 Definition

8.4.1.26.2 Conformance requirement

When event 2d is configured in the UE within a measurement, the UE shall:

- 1> if equation 1 below has been fulfilled for the used frequency during the time "Time to trigger":
 - 2> if the variable TRIGGERED_2D_EVENT is set to FALSE:
 - 3> set the variable TRIGGERED_2D_EVENT to TRUE;
 - 3> send a measurement report with IEs set as below:
 - 4> set in "inter-frequency event results": "inter-frequency event identity" to "2d" and no IE "Inter-frequency cells";
 - 4> set the IE "measured results" and the IE "additional measured results" according to TS 25.331 subclause 8.4.2.
 - 1> if the variable TRIGGERED_2D_EVENT is set to TRUE and if equation 2 is fulfilled for the used frequency:
 - 2> set the variable TRIGGERED_2D_EVENT to FALSE.

Triggering condition:

Equation 1:

$$Q_{Used} \leq T_{Used\ 2d} - H_{2d} / 2$$

The variables in the formula are defined as follows:

Q_{Used} is the quality estimate of the used frequency.

$T_{Used\ 2d}$ is the absolute threshold that applies for the used frequency and event 2d.

H_{2d} is the hysteresis parameter for the event 2d.

Leaving triggered state condition:

Equation 2:

$$Q_{Used} > T_{Used\ 2d} + H_{2d} / 2$$

The variables in the formula are defined as follows:

Q_{Used} is the quality estimate of the used frequency.

$T_{Used\ 2d}$ is the absolute threshold that applies for the used frequency and event 2d.

H_{2d} is the hysteresis parameter for the event 2d.

...

When event 2f is configured in the UE within a measurement, the UE shall:

- 1> if equation 1 below has been fulfilled for the used frequency during the time "Time to trigger":
 - 2> if the variable TRIGGERED_2F_EVENT is set to FALSE:
 - 3> set the variable TRIGGERED_2F_EVENT to TRUE;

3> send a measurement report with IEs set as below:

4> set in "inter-frequency event results": "inter-frequency event identity" to "2f", and no IE "Inter-frequency cells";

4> set the IE "measured results" and the IE "additional measured results" according to TS 25.331 subclause 8.4.2.

1> if the variable TRIGGERED_2F_EVENT is set to TRUE and if equation 2 is fulfilled for the used frequency:

2> set the variable TRIGGERED_2F_EVENT to FALSE.

Triggering condition:

Equation 1:

$$Q_{Used} \geq T_{Used\ 2f} + H_{2f} / 2$$

The variables in the formula are defined as follows:

Q_{Used} is the quality estimate of the used frequency.

$T_{Used\ 2f}$ is the absolute threshold that applies for the used frequency and event 2f.

H_{2f} is the hysteresis parameter for the event 2f.

Leaving triggered state condition:

Equation 2:

$$Q_{Used} < T_{Used\ 2f} - H_{2f} / 2$$

The variables in the formula are defined as follows:

Q_{Used} is the quality estimate of the used frequency.

$T_{Used\ 2f}$ is the absolute threshold that applies for the used frequency and event 2f.

H_{2f} is the hysteresis parameter for the event 2f.

Reference

3GPP TS 25.331 clause 14.2.1.4, 14.2.1.6

8.4.1.26.3 Test Purpose

1. To confirm that the UE sends MEASUREMENT REPORT message when event 2F is configured and estimated quality of the currently used frequency is above the value of the IE "Threshold used frequency".
2. To confirm that the UE sends MEASUREMENT REPORT message when event 2D is configured and estimated quality of the currently used frequency is below the value of the IE "Threshold used frequency".

8.4.1.26.4 Method of test

Initial Condition

System Simulator: 1 cells – The initial configurations of the cell in the SS shall follow the values indicated in the column marked "T0" in table 8.4.1.26-1. The table is found in "Test Procedure" clause.

UE: CS-DCCH+DTCH_DCH (State 6-9) or PS-DCCH+DTCH_DCH (State 6-10) in cell 1 as specified in clause 7.4 of TS 34.108, depending on the CN domain supported by the UE.

Test Procedure

Table 8.4.1.26-1 illustrates the downlink power to be applied for the cell at various time instants of the test execution. Column marked "T0" denotes the initial conditions, while columns marked "T1" is to be applied subsequently. The exact instant on which these values shall be applied is described in the text in this clause.

Table 8.4.1.26-1

Parameter	Unit	Cell 1	
		T0	T1
UTRA RF Channel Number		Ch. 1	
CPICH Ec (FDD)	dBm /3.8 4 MHz	-55	-85
P-CCPCH RSCP(TDD)	dBm	-60	-80

The UE is initially in CELL_DCH state of cell 1. SS commands the UE to perform Inter-frequency measurements and report event 2D and/or event 2F by sending MEASUREMENT CONTROL message. Since quality estimate of used frequency is above threshold, the UE sends MEASUREMENT REPORT message indicating event 2F. SS then configures itself according to the values in columns "T1" shown above. Quality estimate for used frequency is now below threshold, the UE sends MEASUREMENT REPORT message to report it. SS calls for generic procedure C.3 to check that UE is in CELL_DCH state.

Expected Sequence

Step	Direction		Message	Comment
	UE	SS		
1			Void	
2			Void	
3			Void	
4		←	MEASUREMENT CONTROL	SS commands the UE to perform Inter-frequency measurements and to report event 2D and 2F.
5		→	MEASUREMENT REPORT	The UE shall report event 2F
6				SS re-adjusts the downlink transmission power settings according to columns "T1" in table 8.4.1.26-1.
7		→	MEASUREMENT REPORT	The UE shall report event 2D.
8		↔	CALL C.3	If the test result of C.3 indicates that UE is in CELL_DCH state, the test passes, otherwise it fails.

Specific Message Contents

All messages indicated below shall use the same content as described in default message content, with the following exceptions:

MEASUREMENT CONTROL (Step 4) (FDD)

Information Element	Value/remark
Measurement identity	10
Measurement command	Setup
- CHOICE measurement type	Inter-frequency measurement
- Inter-frequency cell info list	Not present
- Inter-frequency cell removal	Not present
- New inter-frequency info list	Any valid identity other than that of Cell 1
- Inter-frequency cell id	Any valid frequency other than that of Cell 1
- Frequency Information	Not present
- Cell info	Not present
- Cell individual offset	Not present
- Reference time difference to cell	Not present
- CHOICE mode	FDD
- Read SFN Indicator	FALSE
- Primary CPICH Info	Any value of Primary scrambling code
- Primary scrambling code	Not present
- Primary CPICH TX power	FALSE
- TX Diversity Indicator	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	4
- Filter Coefficient	CPICH RSCP
- Frequency quality estimate quantity	FALSE
- Inter-frequency reporting quantity	FALSE
- UTRAN Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	FALSE
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CPICH Ec/No reporting indicator	FALSE
- CPICH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FALSE
- Measurement validity	CELL_DCH state
- UE autonomous update mode	Not present
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	2D
- Inter-frequency event identity	-70 dBm
- Used frequency threshold	0
- Used frequency W	1 dB
- Hysteresis	5000 mSec
- Time to trigger	Not present
- Reporting cell status	Not present
- Inter-frequency event identity	2F
- Used frequency threshold	-70 dBm
- Used frequency W	0
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present
Measurement reporting mode	Unacknowledged Mode RLC
- Measurement reporting transfer mode	Event trigger
- Periodic reporting / Event trigger reporting mode	Not present
Additional measurement list	Not present
DPCH compressed mode status info	Not present

MEASUREMENT CONTROL (Step 4) (1.28 Mcps TDD)

Information Element	Value/remark
Measurement identity	10
Measurement command	Setup
Measurement reporting mode	Unacknowledged Mode RLC
- Measurement reporting transfer mode	Event trigger
- Periodic reporting / Event trigger reporting mode	Not present
Additional measurement list	Inter-frequency measurement
- CHOICE measurement type	Not present
- Inter-frequency measurement objects list	Not present
- Inter-frequency cell removal	Any valid identity other than that of Cell 1
- New inter-frequency info list	Any valid frequency other than that of Cell 1
- Inter-frequency cell id	
- Frequency Information	
- Cell info	
- Cell individual offset	0
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	
- CHOICE Mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- TSTD indicator	FALSE
- Cell parameters ID	Any value of Cell parameters ID
- SCTD indicator	FALSE
- Primary CCPCH TX power	Not present
- Timeslot list	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Filter Coefficient	4
- CHOICE mode	TDD
- Measurement quantity for frequency quality estimate	P-CCPCH RSCP
- Inter-frequency reporting quantity	
- UTRAN Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FALSE
- Measurement validity	CELL_DCH state
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	
- Inter-frequency event identity	2D
- Threshold used frequency	-70 dBm
- W used frequency	0
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present Report cells within active set
Maximum number of reported cells	2
- Inter-frequency event identity	2F
- Threshold used frequency	-70 dBm
- W used frequency	0
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present Report cells within active set
Maximum number of reported cells	2
DPCH compressed mode status info	Not present

MEASUREMENT CONTROL (Step 4) (3.84 Mcps TDD)

Information Element	Value/remark
Measurement identity	10
Measurement command	Setup
Measurement reporting mode	Unacknowledged Mode RLC
- Measurement reporting transfer mode	Event trigger
- Periodic reporting / Event trigger reporting mode	Not present
Additional measurement list	Inter-frequency measurement
- CHOICE measurement type	Not present
- Inter-frequency measurement objects list	Not present
- Inter-frequency cell removal	Any valid identity other than that of Cell 1
- New inter-frequency info list	Any valid frequency other than that of Cell 1
- Inter-frequency cell id	
- Frequency Information	
- Cell info	
- Cell individual offset	0
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	
- CHOICE Mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Cell parameters ID	Any value of Cell parameters ID
- SCTD indicator	FALSE
- Primary CCPCH TX power	Not present
- Timeslot list	Not present
- Cell for measurement	Not present
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Filter Coefficient	4
- CHOICE mode	TDD
- Measurement quantity for frequency quality	P-CCPCH RSCP
estimate	
- Inter-frequency reporting quantity	
- UTRAN Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related quantities	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FALSE
- Measurement validity	CELL_DCH state
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each events	
- Inter-frequency event identity	2D
- Threshold used frequency	-70 dBm
- W used frequency	0
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present Report cells within active set
Maximum number of reported cells	2
- Inter-frequency event identity	2F
- Threshold used frequency	-70 dBm
- W used frequency	0
- Hysteresis	1 dB
- Time to trigger	5000 mSec
- Reporting cell status	Not present Report cells within active set
Maximum number of reported cells	2
DPCH compressed mode status info	Not present

MEASUREMENT REPORT (Step 5) (FDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 10
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	Inter-frequency measurement event results,
- Inter-frequency event identity	2F

MEASUREMENT REPORT (Step 5)(TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 10
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	
- CHOICE event results	Check to see if set to Inter-frequency measurement event results,
- Inter-frequency event identity	Check to see if set to 2F

MEASUREMENT REPORT (Step 7) (FDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 10
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	Inter-frequency measurement event results,
- Inter-frequency event identity	2D

MEASUREMENT REPORT (Step 7)(TDD)

Information Element	Value/remark
Measurement identity	Check to see if set to 10
Measured results	Check to see if it is absent
Measured results on RACH	Check to see if it is absent
Additional measured results	Check to see if it is absent
Event results	
- CHOICE event results	Check to see if set to Inter-frequency measurement event results,
- Inter-frequency event identity	Check to see if set to 2D

8.4.1.26.5 Test Requirement

1. In step 5 the UE shall send MEASUREMENT REPORT message indicating event 2F.
2. In step 7 the UE shall send MEASUREMENT REPORT message indicating event 2D.

CHANGE REQUEST

34.123-1 CR 1229 rev - Current version: **5.11.1**

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

Title:	CR to 34.123-1Rel-5: To Delete Test Case 7.1.2.2.3 of LCR TDD		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	LCR TDD	Date:	20/03/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	4.9 . This test case should be removed as the test purpose is implicitly tested by radio resource management test cases in TS 34.122.
Summary of change:	4.9 . To delete this test case.
Consequences if not approved:	The test case is unnecessary.

Clauses affected:	7.1.2.2.3										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="padding: 2px 5px;"></td> <td style="padding: 2px 5px;"></td> </tr> <tr> <td style="padding: 2px 5px;">X</td> <td style="padding: 2px 5px;"></td> </tr> <tr> <td style="padding: 2px 5px;"></td> <td style="padding: 2px 5px;"></td> </tr> </table>	Y	N			X				Other core specifications	
	Y	N									
X											
	Test specifications										
	O&M Specifications										
Other comments:	The CR is only connected with TDD test cases.										

7.1.2.2.3 Void ~~Correct application of Dynamic Persistence (1.28 Mcps TDD option)~~

~~Void.~~

~~7.1.2.2.3.1 Definition and applicability~~

~~All TDD 1.28 Mcps UE~~

~~7.1.2.2.3.2 Conformance requirement~~

~~The UE responds to changes in the dynamic persistence parameter broadcast in SIB 7.~~

~~Reference(s)~~

~~TS 25.331 clause 8.5.12.~~

~~TS 25.321 clause 11.2.3.~~

~~7.1.2.2.3.3 Test Purpose~~

~~To verify that if the dynamic persistence value broadcast in SIB7 is set to zero, the UE will not attempt RACH access.~~

~~7.1.2.2.3.4 Method of test~~

~~Initial conditions~~

~~The UE is attached to the network and in idle mode. The Sim card should be configured so that the UE adopts ASC = 1 or greater. The SS BCH broadcast will include SIB 7 with the dynamic persistence parameter set to zero.~~

~~Related ICS/XT Statement(s)~~

~~TBD~~

~~Foreseen Final State of the UE~~

~~The same as the initial condition.~~

~~Test procedure~~

- ~~a) The SS repeatedly pages the UE for T_{22} seconds.~~
- ~~b) The SS monitors UpPCH for a response from the UE.~~

~~Expected sequence~~

Step	Direction		Message	Comments
	UE	SS		
1		←	PAGE	
2			Wait	

~~7.1.2.2.3.5 Test Requirements~~

~~No UpPCH transmission should be received from the UE.~~

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1230 rev - Current version: **5.11.1**

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:	Correction of 8_4_1_2A for TDD		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	01/04/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	10. In MEASUREMENT REPORT (Step 10), there should be different for HCR than LCR
Summary of change:	10. To split MEASUREMENT REPORT (Step 10) into 3.84 and 1.28 Mcps.
Consequences if not approved:	The test case will not be executed correctly for LCR vs HCR TDD.

Clauses affected:	8.4.1.2A								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="width: 20px; height: 15px;"></td> <td style="width: 20px; height: 15px;"></td> </tr> <tr> <td style="width: 20px; height: 15px;"></td> <td style="width: 20px; height: 15px;"></td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N						
Y	N								
Other comments:	The CR is only connected with TDD test cases.								

8.4.1.2A Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_DCH state (TDD)

8.4.1.2A.1 Definition

8.4.1.2A.2 Conformance requirement

Upon transition from idle mode to CELL_DCH state, the UE shall:

- 1> stop monitoring the list of cells assigned in the IE "inter-frequency cell info list" in System Information Block type 12 (or System Information Block type 11).

Upon reception of a MEASUREMENT CONTROL message the UE shall:

- 1> read the IE "Measurement command";
- 1> if the IE "Measurement command" has the value "setup":
 - 2> store this measurement in the variable MEASUREMENT_IDENTITY according to the IE "measurement identity", first releasing any previously stored measurement with that identity if that exists;
 - 2> for measurement types "inter-frequency measurement":
 - 3> if the IE "Inter-frequency cell info list" for that measurement identity is empty; or
 - 3> if, according to its measurement capabilities, the UE does not require compressed mode to perform the measurements;
 - 4> if the measurement is valid in the current RRC state of the UE:
 - 5> begin measurements according to the stored control information for this measurement identity.

If the IE "Reporting Cell Status" is not received for inter-frequency measurement, the UE shall:

- 1> exclude the IE "Cell Measured Results" for any cell in MEASUREMENT REPORT.

Reference

3GPP TS 25.331 clauses 8.4.1.3, 8.4.1.8.2 and 8.6.7.9

8.4.1.2A.3 Test Purpose

1. To confirm that the UE stops monitoring the list of cells assigned in the IE "inter-frequency cell info" in System Information Block type 11 messages, after it enters CELL_DCH state from idle mode.
2. To confirm that the UE excludes the IE "cell measured results" for any cells in the MEASUREMENT REPORT messages, after it receives a MEASUREMENT CONTROL message with "Reporting cell status" IE omitted.

8.4.1.2A.4 Method of test

Initial Condition

System Simulator: 2 cells – Cell 1 and cell 4 are active..

UE: "Registered idle mode on CS" (state 2) or "Registered idle mode on PS" (state 3) in cell 1 as specified in clause 7.4 of TS 34.108, depending on the CN domain supported by the UE. If the UE supports both CS and PS domains, the initial UE state shall be "Registered idle mode on CS/PS" (state 7).

Test Procedure

Table 8.4.1.2A-1 illustrates the downlink power to be applied for the 2 cells.

Table 8.4.1.2A-1

Parameter	Unit	Cell 1	Cell 4
UTRA RF Channel Number		Ch. 1	Ch. 2
PCCPCH RSCP	dBm	-60	-75

The UE is initially in idle mode and has selected cell 1 for camping.

SS prompts the operator to make an outgoing call for one of the traffic classes supported by the UE. SS and UE shall execute procedure P3 (for CS service) or P5 (for PS service). Next SS and UE shall execute procedure P7 (for CS service) or P9 (for PS service). Then SS and UE shall execute procedure P11 (for CS service) or P13 (for PS service). The UE shall not transmit any MEASUREMENT REPORT messages, which pertain to measurement readings for cells listed in the IE "inter-frequency cell info list" in System Information Block Type 11.

SS sends MEASUREMENT CONTROL message on the downlink DCCH. In this message, SS requests UE to perform inter-frequency measurement with periodic reporting of PCCPCH RSCP values for cell 4.

The UE shall start inter-frequency measurement and reporting for cell 4's PCCPCH RSCP values. It shall report this measurement result by transmitting MEASUREMENT REPORT messages on uplink DCCH periodically at 16 seconds interval.

SS sends MEASUREMENT CONTROL message on the downlink DCCH omitting the IE "Reporting cell status". The UE shall send MEASUREMENT REPORT messages on the uplink DCCH, with the IE "Cell measured results" excluded in these messages. SS calls for generic procedure C.3 to check that UE is in CELL_DCH state.

Expected Sequence

Step	Direction		Message	Comment
	UE	SS		
1		←	System Information Block type 11	The UE is idle mode and camped onto cell 1. System Information Block Type 11 to be transmitted is different from the default settings (see specific message contents)
2		↔	SS executes procedure P3 (clause 7.4.2.1.2) or P5 (clause 7.4.2.2.2) specified in TS 34.108.	SS prompts the operator to make an outgoing call.
3		↔	SS executes procedure P7 (clause 7.4.2.3.2) or P9 (clause 7.4.2.4.2) specified in TS 34.108.	
4		↔	SS executes procedure P11 (clause 7.4.2.5.2) or P13 (clause 7.4.2.6.2) specified in TS 34.108.	
5			Void	
6				SS checks to see that no MEASUREMENT REPORT messages are received.
7		←	MEASUREMENT CONTROL	SS requests UE to start inter-frequency measurement for cell 4, and performing periodic reporting for cell 4's PCCPCH RSCP. See specific message content below.
8		→	MEASUREMENT REPORT	UE shall report cell 4's PCCPCH RSCP reading periodically.

9	←	MEASUREMENT CONTROL	SS changes the reporting criteria of cell 4 to 'event 2c'. "Reporting cell status" IE in this message is omitted.
10	→	MEASUREMENT REPORT	SS monitors the uplink DCCH to make sure that only 1 such message is received almost immediately after step 9. This message shall not contain IE "Inter-frequency cell measured results"
11	↔	CALL C.3	If the test result of C.3 indicates that UE is in CELL_DCH state, the test passes, otherwise it fails.

Specific Message Content

All messages indicated below shall use the same content as described in default message content, with the following exceptions:

System Information Block type 11 (Step 1)

Information Element	Value/remark
SIB12 indicator	FALSE
FACH measurement occasion info	Not Present
Measurement control system information	
-Use of HCS	Not used
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	Not present
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Not Present
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	Not Present
- Reference time difference to cell	Not present
- Read SFN indicator	TRUE
- CHOICE mode	TDD
- Primary CCPCH Info	Refer to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 of TS 34.108
- Cell Selection and Re-selection info	Not present
- Intra-frequency measurement quantity	Not present
- Intra-frequency reporting quantity for RACH reporting	Not present
- Maximum number of reported cells on RACH	Not present
- Reporting information for state CELL_DCH	Not present
- Inter-frequency measurement system information	
- Inter-frequency cell info list	
- CHOICE inter-frequency cell removal	Not present
- New inter-frequency cells	
- Inter-frequency cell id	4
- Frequency info	
- CHOICE mode	TDD
- UARFCN (Nt)	Reference to table 6.1.4 of TS34.108 for Cell 4
- Cell info	
- Cell individual offset	Not Present
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	Refer to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4 of TS 34.108
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Cell selection and re-selection info	Not present
	For neighbouring cell, if HCS is not used and all the parameters in cell selection and re-selection info are Default value, this IE is absent.
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present

RRC CONNECTION SETUP (Step 2)

UE will use the message found in TS 34.108 clause 9.

MEASUREMENT CONTROL (Step 7)

Information Element	Value/Remark
Measurement Identity	1
Measurement Command	Setup
Measurement Reporting Mode	
- Measurement Reporting Transfer Mode	Acknowledged Mode RLC
- Periodic Reporting / Event Trigger Reporting Mode	Periodical reporting
Additional measurements list	Not Present
CHOICE measurement type	Inter-frequency measurement
- Inter-frequency cell info list	
- CHOICE inter-frequency cell removal	No inter-frequency cells removed
- New inter-frequency info list	
- Inter-frequency cell id	4
- Frequency info	
- CHOICE mode	TDD
- UARFCN (Nt)	UARFCN of the frequency for cell 4
- Cell info	
- Cell individual offset	0 dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	Set to same as used for cell 4
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Cells for measurement	Not Present
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Filter Coefficient	0
- CHOICE mode	TDD
- Measurement quantity for frequency quality estimate	PCCPCH RSCP
- Inter-frequency reporting quantity	
- UTRA Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related cell reporting quantities	
- Cell synchronisation information reporting indicator	FALSE
- Cell Identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- Primary CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting cell status	
- CHOICE reported cell	Report cell within active and/or monitored set on used frequency or within virtual active and/or monitored set on non-used frequency
- Maximum number of reported cells	2
- Measurement validity	Not present
- Inter-frequency set update	Not present
- CHOICE report criteria	Periodic reporting criteria
- Amount of reporting	Infinity
- Reporting interval	16 seconds
DPCH compressed mode status info	Not Present

MEASUREMENT REPORT (Step 8)

Information Element	Value/remark
Measurement identity	Check to see if set to 1
Measured Results	
- CHOICE measurement	Check to see if set to "Inter-frequency measured results list"
- Inter-frequency measurement results	
- Frequency info	
- CHOICE mode	TDD
- UARFCN (Nt)	Check to see if set to the UARFCN of the frequency for cell 4
- UTRA carrier RSSI	Check to see if it is absent
- Inter-frequency cell measurement results	
- Cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if it is absent
- CHOICE mode	TDD
- cell parameters identity	Check to see if set to the same for cell 4
- proposed TGSN	Check to see if it is absent
- PCCPCH RSCP	Check to see if it is present
- Pathloss	Check to see if it is absent
- timeslot list	Check to see if it is absent
Measured Results on RACH	Check to see if it is absent
Additional Measured results	Check to see if it is absent
Event Results	Check to see if it is absent

MEASUREMENT CONTROL (Step 9)

Information Element	Value/remark
Measurement Identity	1
Measurement Command	Set up
Measurement Reporting Mode	
- Measurement Reporting Transfer Mode	Acknowledged Mode RLC
- Periodic Reporting / Event Trigger Reporting	Event Trigger
Mode	
Additional measurements list	Not Present
CHOICE measurement type	Inter-frequency measurement
- Inter-frequency cell info list	
- CHOICE inter-frequency cell removal	No inter-frequency cells removed
- New inter-frequency info list	
- Inter-frequency cell id	4
- Frequency info	
- UARFCN uplink (Nt)	UARFCN of the frequency for cell 4
- Cell info	
- Cell individual offset	0 dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	Set to same as used for cell 4
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Cells for measurement	Not Present
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Filter Coefficient	0
- CHOICE mode	TDD
- Measurement quantity for frequency	PCCPCH RSCP
quality estimate	
- Inter-frequency reporting quantity	
- UTRA Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
- Non frequency related cell reporting	
quantities	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell Identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- Primary CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Measurement validity	Not present
- Inter-frequency set update	Not present
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each event	
- Inter-frequency event identity	2c
- Threshold used frequency	Not Present
- W used frequency	Not Present
- Hysteresis	0.5 dB
- Time to trigger	0 milliseconds
- Reporting cell status	Not Present
- Parameters required for each non-used	
frequency	
- Threshold non used frequency	-85 dBm
- W non used frequency	0
DPCH compressed mode status info	Not Present

MEASUREMENT REPORT (Step 10) (3.84 Mcps TDD)

<u>Information Element</u>	<u>Value/remark</u>
<u>Measurement identity</u>	<u>Check to see if set to 1</u>
<u>Measured Results</u>	<u>Check to see if it is absent</u>
<u>Measured Results on RACH</u>	<u>Check to see if it is absent</u>
<u>Additional Measured Results</u>	<u>Check to see if it is absent</u>
<u>Event Results</u>	
- <u>CHOICE event result</u>	<u>Check to see if this IE is set to "Inter-frequency measurement event results"</u>
- <u>Inter-frequency event identity</u>	<u>Check to see if this IE is set to "2c"</u>
- <u>Inter-frequency cells</u>	
- <u>Frequency info</u>	
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>UARFCN(Nt)</u>	<u>Check to see if set to the UARFCN of the frequency for cell 4</u>
- <u>Non frequency related measurement event results</u>	
- <u>CHOICE Mode</u>	<u>Check to see if set to "TDD"</u>
- <u>Primary CCPCH info</u>	
- <u>CHOICE Mode</u>	<u>Check to see if set to "TDD"</u>
- <u>CHOICE TDD option</u>	<u>Check to see if set to "3.84 Mcps TDD"</u>
- <u>CHOICE Sync Case</u>	<u>Check to see if set to " Sync Case 1"</u>
- <u>Timeslot</u>	<u>Check to see if it's the same for cell 4 (S/B 0)</u>
- <u>Cell parameters Id</u>	<u>Check to see if it's the same for cell 4</u>
- <u>SCTD indicator</u>	<u>Check to see if set to "FALSE"</u>

MEASUREMENT REPORT (Step 10) (1.28 Mcps TDD)

<u>Information Element</u>	<u>Value/remark</u>
<u>Measurement identity</u>	<u>Check to see if set to 1</u>
<u>Measured Results</u>	<u>Check to see if it is absent</u>
<u>Measured Results on RACH</u>	<u>Check to see if it is absent</u>
<u>Additional Measured Results</u>	<u>Check to see if it is absent</u>
<u>Event Results</u>	
- <u>CHOICE event result</u>	<u>Check to see if this IE is set to "Inter-frequency measurement event results"</u>
- <u>Inter-frequency event identity</u>	<u>Check to see if this IE is set to "2c"</u>
- <u>Inter-frequency cells</u>	
- <u>Frequency info</u>	
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>UARFCN(Nt)</u>	<u>Check to see if set to the UARFCN of the frequency for cell 4</u>
- <u>Non frequency related measurement event results</u>	
- <u>CHOICE Mode</u>	<u>Check to see if set to "TDD"</u>
- <u>Primary CCPCH info</u>	
- <u>CHOICE Mode</u>	<u>Check to see if set to "TDD"</u>
- <u>CHOICE TDD option</u>	<u>Check to see if set to "1.28 Mcps TDD"</u>
- <u>TSTD indicator</u>	<u>Check to see if set to "FALSE"</u>
- <u>Cell parameters Id</u>	<u>Check to see if it's the same for cell 4</u>
- <u>SCTD indicator</u>	<u>Check to see if set to "FALSE"</u>

8.4.1.2A.5 Test Requirement

After step 5 the UE shall not transmit any MEASUREMENT REPORT messages pertaining to the measurement of PCCPCH RSCP of cell 4.

After step 7 the UE shall transmit MEASUREMENT REPORT messages on uplink DCCH, reporting cell 4's PCCPCH RSCP value at periodic time interval of 16 seconds in "inter-frequency cell measurement results" IE.

After step 9 the UE shall transmit only 1 MEASUREMENT REPORT message on the uplink DCCH. In this message, IE "inter-frequency cell measured results" shall be absent.

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1231 rev - Current version: **5.11.1**

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:	Correction to MAC test cases 7.1.3.2 to add HCR TDD		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	07/04/2005
Category:	F	Release:	Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 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:	1. Add HCR TDD to test procedure.		
Summary of change:	1. Changes to method of test a. Editorial corrections to the selected radio bearer configuration b. Added HCR TDD reference. c. Add HCR TDD physical channel parameters.		
Consequences if not approved:	HCR TDD not testable.		

Clauses affected:	7.1.3.2										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
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.

7.1.3.2 TFC Selection

7.1.3.2.1 Definition and applicability

All UEs

7.1.3.2.2 Conformance requirement

Before selecting a TFC, i.e. at every boundary of the shortest TTI, or prior to each transmission on PRACH the set of valid TFCs shall be established. All TFCs in the set of valid TFCs shall:

1. belong to the TFCS.
 - 1a. not be restricted by higher layer signalling (e.g. TFC Control, see [7]).
2. not be in the Blocked state.
3. be compatible with the RLC configuration.
4. not require RLC to produce padding PDUs (see [6] for definition).
5. not carry more bits than can be transmitted in a TTI (e.g. when compressed mode by higher layer scheduling is used and the presence of compressed frames reduces the number of bits that can be transmitted in a TTI using the Minimum SF configured).

[...]

The chosen TFC shall be selected from within the set of valid TFCs and shall satisfy the following criteria in the order in which they are listed below:

1. No other TFC shall allow the transmission of more highest priority data than the chosen TFC.
2. No other TFC shall allow the transmission of more data from the next lower priority logical channels. Apply this criterion recursively for the remaining priority levels.
3. No other TFC shall have a lower bit rate than the chosen TFC.

In FDD mode the above rules for TFC selection in the UE shall apply to DCH, and the same rules shall apply for TF selection on RACH and CPCH.

[...]

Reference(s)

TS 25.301 clause 5.3.1.2.

TS 25.321, clause 11.4.

7.1.3.2.3 Test purpose

1. To verify that the UE supports a TFCS that does not allow simultaneous transmission of max data rate on all transport channels.
2. To verify that the UE selects a TFC according to the rule that no other TFC shall allow the transmission of more highest priority data than the chosen TFC.
3. To verify that the UE selects a TFC according to the rule that no other TFC shall allow the transmission of more data from the next lower priority logical channels.

7.1.3.2.4 Method of test

Initial conditions

System Simulator:

- 1 cell, default parameters, Ciphering Off.

User Equipment:

- The UE shall operate under normal test conditions, Ciphering Off.
- The Test-USIM shall be inserted.

The generic procedure for Radio Bearer establishment (clause 7.1.3 of TS 34.108) is executed, with all the parameters as specified in the procedure, with the following exceptions:

A radio bearer configuration for "Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:16 DL:64 kbps / PS RAB + UL:13.6 DL:13.6 kbps SRBs for DCCH" is configured. This is a modified version of the radio bearer configuration as specified in TS 34.108, clause 6.10.2.4.1.58 (FDD) clause 6.10.3.4.1.58 (3.85 Mcps TDD) for "Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" RAB with the following modifications:

NOTE This radio bearer configuration has been selected to provide for a representative test scenario for how UTRAN configures the TFCS such that the data rate can be increased on one transport channel when there is no (or low) activity on the other transport channels, e.g. to provide for improved signalling performance (13.6 kbps) when there is no data transmitted.

Uplink Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	16000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
	TTI, ms	20	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1068	
	Uplink: Max number of bits/radio frame before rate matching	534	
	RM attribute	135-175	

Uplink Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	16000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	2124	
	Uplink: Max number of bits/radio frame before rate matching	531	
	RM attribute	135-175	

Uplink Transport channel parameters for UL:13.6 kbps SRBs for DCCH

Higher layer	RAB/signalling RB	SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Bearer	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	
RLC	Logical channel type	DCCH	DCCH	DCCH	DCCH	
	RLC mode	UM	AM	AM	AM	
	Payload sizes, bit	136	128	128	128	
	Max data rate, bps	13600	12800	12800	12800	
	AMD/UMD PDU header, bit	8	16	16	16	
MAC	MAC header, bit	4	4	4	4	
	MAC multiplexing	4 logical channel multiplexing				
Layer 1	TrCH type	DCH				
	TB sizes, bit	148 (alt 0, 148)				
	TFS	TF0, bits	0x148 (alt 1x0)			
		TF1, bits	1x148			
		TF2, bits	2x148			
		TF3, bits	4x148			
	TTI, ms	40				
	Coding type	CC 1/3				
	CRC, bit	16				
	Max number of bits/TTI before rate matching	~2064				
	Uplink: Max number of bits/radio frame before rate matching	~516				
RM attribute	155-185					

Uplink TFCS

TFCS size	15
TFCS	(Streaming RAB, Interactive RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF0,TF2,TF0), (TF1,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF1,TF0,TF2), (TF1,TF0,TF3), (TF0,TF1,TF1), (TF0,TF1,TF2), (TF0,TF1,TF3), (TF1,TF1,TF1), (TF0,TF0,TF2), (TF0,TF0,TF3)

Uplink Physical channel parameters [\(FDD\)](#)

DPCH Uplink	Min spreading factor	32
	Max number of DPDCH data bits/radio frame	1200
	Puncturing Limit	1.0

Uplink Physical channel parameters [\(3.84Mcps TDD\)](#)

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot + SF16 x 1code x 1 time slot
	Max. Number of data bits/radio frame	696 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72 (alt. 0.68)

Downlink Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	640	
	Max data rate, bps	64000	
	AM PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	656	
	TFS	TF0, bits	0x656
		TF1, bits	1x656
		TF2, bits	2x656
		TF3, bits	4x656
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	8076	
RM attribute	125-165		

Downlink Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	64000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	4x336
		TF4, bits	8x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	8460	
RM attribute	135-175		

Downlink Transport channel parameters for DL:13.6 kbps SRBs for DCCH

Higher layer	RAB/signalling RB	SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Bearer	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	
RLC	Logical channel type	DCCH	DCCH	DCCH	DCCH	
	RLC mode	UM	AM	AM	AM	
	Payload sizes, bit	136	128	128	128	
	Max data rate, bps	13600	12800	12800	12800	
	AMD/UMD PDU header, bit	8	16	16	16	
MAC	MAC header, bit	4	4	4	4	
	MAC multiplexing	4 logical channel multiplexing				
Layer 1	TrCH type	DCH				
	TB sizes, bit	148 (alt 0, 148) (note)				
	TFS	TF0, bits	0x148 (alt 1x0) (note)			
		TF1, bits	1x148			
		TF2, bits	2x148			
		TF3, bits	4x148			
		TF4, bits				
	TTI, ms	40				
	Coding type	CC 1/3				
	CRC, bit	16				
	Max number of bits/TTI before rate matching	2064				
RM attribute	155-230					

NOTE: alternative parameters enable the measurement "transport channel BLER" in the UE.

Downlink TFCS

TFCS size	22
TFCS	((Streaming RAB, Interactive RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF0,TF2,TF0), (TF0,TF3,TF0), (TF0,TF4,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF0,TF0,TF2), (TF3, TF0, TF2), (TF0,TF0,TF3))

Downlink Physical channel parameters (FDD)

DPCH Downlink	DTX position		Flexible
	Spreading factor		32
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	4
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	140
Number of data bits/frame		2100	

Downlink Physical channel parameters (3.84 Mcps TDD)

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1640 bits
	TFCI code word	16 bits
	Puncturing limit	0.64

The logical channel priorities are set according to the following:

Radio Bearer	Logical Channel Priority
RB1 (DCCH)	3
RB2 (DCCH)	3
RB3 (DCCH)	4
RB4 (DCCH)	5
RB 5 (streaming/unknown)	2
RB 6 (Interactive/ background)	7

Let $AM_7_PayloadSize$ denote the RAB payload size in octets.

Related ICS/IXIT Statement(s)

None

Test procedure

In the following, the Streaming/ unknown radio bearer is denoted RB 5, the Interactive/ background radio bearer is denoted RB 6, the payload size for RB5 is denoted $RB5_PayloadSize$ and the payload size for RB6 is denoted $RB6_PayloadSize$.

- The SS closes the test loop using UE test loop mode 1 with the UL SDU size set to $(RB5_PayloadSize * 25) - 1$ bytes for RB5 and to $(RB6_PayloadSize * 25) - 1$ bytes for RB6. See note 1.
- The SS transmits a MEASUREMENT CONTROL message requesting periodic reporting with a period of 250ms.
- The SS sends two RLC SDUs of size $\text{floor}(RB6_PayloadSize) - 1$ bytes to the UE on RB 6. The UE is expected to loop this data back in two RLC SDUs, segmented into a total of 50 RLC PDUs.
- The SS checks that data is returned in uplink
- The SS waits until a measurement report is received and checks that the UE transmits the measurement report and data on RB6 simultaneously using a TFC that maximises the data rate for the SRB.
- The SS waits until the UE has looped back all data
- The SS sends two RLC SDUs of size $\text{floor}(RB5_PayloadSize) - 1$ bytes to the UE on RB 5. The UE is expected to loop this data back in two RLC SDU, segmented into a total of 50 RLC PDUs.
- The SS sends two RLC SDUs of size $\text{floor}(AM_7_RB6_PayloadSize) - 1$ bytes to the UE on RB 6. The UE is expected to loop this data back in two RLC SDUs, segmented into a total of 50 RLC PDUs.
- The SS checks that data is returned in uplink on RB5 and RB6 simultaneously.

- j) The SS waits until a measurement report is received and checks that during the reception of the measurement report, data is also received on RB5 but not on RB6.

Note 1. Having UE to return 50 PDUs corresponds to $50 \times \text{TTI} (20 \text{ ms}) = 1$ second of continuous data transmission. As the periodic measurement interval is 250ms this will guarantee that data transmission will be interrupted by transmission of measurement reports in uplink. To keep the uplink SDU size below the limit (1500 octets) of the Max SDU size parameter associated with PDP context establishment then two downlink PDUs is used to generate the 50 uplink PDUs (uplink SDU size= 1000 octets).

Expected sequence

Step	Direction		Message	Comments
	UE	SS		
1	<--		ACTIVATE RB TEST MODE (DCCH)	TC
2	-->		ACTIVATE RB TEST MODE COMPLETE (DCCH)	TC
3	<--		RADIO BEARER SETUP (DCCH)	RRC
4	-->		RADIO BEARER SETUP COMPLETE (DCCH)	RRC
5	<--		CLOSE UE TEST LOOP (DCCH)	TC UE test mode 1 with UL RLC SDU size parameter for RB5 and RB6 set to achieve UE to transmit 50 PDUs in uplink.
6	-->		CLOSE UE TEST LOOP COMPLETE (DCCH)	TC
7	<--		MEASUREMENT CONTROL (DCCH)	SS sends a MEASUREMENT CONTROL message requesting periodic reporting at 250 ms interval.
8	<--		2 x Downlink RLC PDU on RB6	SS sends two SDUs fit into two PDUs on RB6.
9	-->		Uplink RLC PDUs	SS starts receiving RLC PDUs from the UE on RB6
10	-->		MEASUREMENT REPORT (DCCH)	SS checks that at least one MEASUREMENT REPORT message is received within 500 ms (=2 x reporting interval) simultaneous with RB 6 data.
11	-->		Uplink RLC PDUs	SS checks that UE continues returning RLC PDUs on RB6
12	<--		2 x Downlink RLC PDU on RB5	SS sends two SDUs fit into two PDUs on RB5.
13	<--		2 x Downlink RLC PDU on RB6	SS sends two SDUs fit into two PDUs on RB6.
14	-->		Uplink RLC PDUs	SS starts receiving RLC PDUs from the UE on RB5 and RB6
15	-->		MEASUREMENT REPORT (DCCH) and simultaneous data on RB5 and RB6	SS checks that at least one MEASUREMENT REPORT message is received within 500 ms (=2 x reporting interval) simultaneous with RB 5 data.
16	-->		Uplink RLC PDUs	SS continues receiving RLC PDUs from the UE on RB5 and RB6

7.1.3.2.5 Test requirements

1. After step 8 the UE shall loopback data on RB6 using the transport format that carries the maximum amount of data (2 PDUs per TTI)
2. After step 10 the UE shall transmit a MEASUREMENT REPORT message within 500 ms.
3. After step 10 and during the reception of the MEASUREMENT CONTROL, data shall also be received on RB6
4. After step 13, the UE shall loopback data simultaneously on RB5 and RB6 using a TFC that carries data for both transport channels.

5. After step 15 the UE shall transmit a MEASUREMENT REPORT message within 500 ms
6. After step 15 and during the reception of the MEASUREMENT REPORT the UE shall simultaneously transmit data on RB5 but not on RB6

CHANGE REQUEST

34.123-1 CR 1232 rev - Current version: 5.11.1

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:	Correction to RRC test case 8.4.1.1A (TDD)		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	8/04/2005
Category:	F	Release:	Rel-5
<i>Use one of the following categories:</i>		<i>Use one of the following releases:</i>	
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: As per 25.331 section 8.6.7.8:

For the first MEASUREMENT REPORT message, the UE shall:

“Send the MEASUREMENT REPORT as soon as all requested reporting quantities are available according to the requirements and the measurement capabilities set in [19] and [20] for at least one measurement object stored in the variable MEASUREMENT_IDENTITY, but never later than one reporting interval after measurement initiation”

In 34.123-1 section 8.4.1.1A.4, reporting interval for the first MEASUREMENT REPORT message at Step 6 of the expected sequence is not taken care.

As per 34.123-1 section 8.4.1.1A.4:

1) Comments for step 7 of the expected sequence mentions:

“SS shall receive consecutive MEASUREMENT REPORT messages at 64 seconds interval.”

But periodical reporting of the measurement report message and reporting interval of the message is already verified at step 6 of the test case. Hence comment at Step 7 is not required.

2) Specific message contents of Measurement Control message at Step 8 specifies intra frequency measurement reporting criteria → amount of reporting to be infinity. However for Event ‘1g’ in the intra frequency measurement reporting criteria no such IE exists.

Similar is the case for IE “Reporting range constant”, “Reporting deactivation

threshold", "W", "Replacement activation threshold", "Reporting interval".

Summary of change: ⓘ Following changes are made to **34.123-1 section 8.4.1.1A.4**:

1. Modified Expected sequence to consider reporting interval at step 5 when UE sends first MEASUREMENT REPORT message at step 6.
2. Removed comments for step 7 of the expected sequence.
3. Modified specific message contents of Measurement Control Message of step 8 to remove unnecessary IE's.

Consequences if not approved: ⓘ Inconsistency will remain between TTCN implementation and 34.123-1.

Clauses affected: ⓘ 8.4.1.1A.4

Other specs affected:

Y	N
ⓘ	X
	X
	X

Other core specifications ⓘ
Test specifications ⓘ
O&M Specifications

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.

<< START OF MODIFIED SECTION >>**8.4.1.1A Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_DCH state (TDD)****8.4.1.1A.1 Definition****8.4.1.1A.2 Conformance requirement**

The UE shall obey the following rules for different measurement types after transiting from idle mode to CELL_DCH state:

Upon transition from idle mode to CELL_DCH state, the UE shall:

- 1> if intra-frequency measurements applicable to CELL_DCH state are stored in the variable MEASUREMENT_IDENTITY:
- 2> begin measurement reporting.

Upon reception of a MEASUREMENT CONTROL message the UE shall perform actions specified in subclause 8.6 in TS 25.331 unless otherwise specified below.

The UE shall:

- 1> read the IE "Measurement command";
- 1> if the IE "Measurement command" has the value "setup":
 - 2> store this measurement in the variable MEASUREMENT_IDENTITY according to the IE "measurement identity", first releasing any previously stored measurement with that identity if that exists;
 - 2> if the measurement type is quality, UE internal, intra-frequency, inter-frequency or inter-RAT:
 - 3> if, according to its measurement capabilities, the UE does not require compressed mode to perform the measurements:
 - 4> if the measurement is valid in the current RRC state of the UE:
 - 5> begin measurements according to the stored control information for this measurement identity.
 - 2> for any other measurement type:
 - 3> if the measurement is valid in the current RRC state of the UE:
 - 4> begin measurements according to the stored control information for this measurement identity.
 - 1> if the IE "measurement command" has the value "release":
 - 2> terminate the measurement associated with the identity given in the IE "measurement identity";
 - 2> clear all stored measurement control information related associated to this measurement identity in variable MEASUREMENT_IDENTITY.
 - 1> clear the entry for the MEASUREMENT CONTROL message in the table "Accepted transactions" in the variable TRANSACTIONS;
 - 1> if the UE "Additional Measurement List" is present:
 - 2> if the received measurement configuration in this MEASUREMENT CONTROL message, or any measurement identities in the "Additional Measurement List" do not all have the same validity:

3> set the variable CONFIGURATION_INCOMPLETE to TRUE.

1> and the procedure ends.

The purpose of the measurement reporting procedure is to transfer measurement results from the UE to UTRAN.

In CELL_DCH state, the UE shall:

1> transmit a MEASUREMENT REPORT message on the uplink DCCH when the reporting criteria stored in variable MEASUREMENT_IDENTITY are met for any ongoing measurements that are being performed in the UE.

The reporting criteria are fulfilled if either:

- the first measurement has been completed according to the requirements set in [19] or [20] for a newly initiated measurement with periodic reporting; or
- the time period indicated in the stored IE "Periodical reporting criteria" has elapsed since the last measurement report was submitted to lower layers for a given measurement; or
- an event in stored IE "Measurement reporting criteria" was triggered. Events and triggering of reports for different measurement types are described in detail in clause 14.

For the measurement, which triggered the MEASUREMENT REPORT message, the UE shall:

1> set the IE "measurement identity" to the measurement identity, which is associated with that measurement in variable MEASUREMENT_IDENTITY;

1> set the IE "measured results" to include measurements according to the IE "reporting quantity" of that measurement stored in variable MEASUREMENT_IDENTITY; and

2> if all the reporting quantities are set to "false":

3> not set the IE "measured results".

1> set the IE "Measured results" in the IE "Additional measured results" according to the IE "reporting quantity" for all measurements associated with the measurement identities included in the "Additional measurements list" stored in variable MEASUREMENT_IDENTITY of the measurement that triggered the measurement report; and

2> if more than one additional measured results are to be included:

3> include only the available additional measured results, and sort them in ascending order according to their IE "measurement identity" in the MEASUREMENT REPORT message.

1> if the MEASUREMENT REPORT message was triggered by an event (i.e. not a periodical report):

2> set the IE "Event results" according to the event that triggered the report.

The UE shall:

1> transmit the MEASUREMENT REPORT message on the uplink DCCH using either AM or UM RLC according to the stored IE "measurement reporting mode" associated with the measurement identity that triggered the report.

When the MEASUREMENT REPORT message has been submitted to lower layers for transmission:

1> the procedure ends.

Reference

TS 25.331, clauses 8.4.1.8.1, 8.4.2, 8.4.1.3.

8.4.1.1A.3 Test Purpose

1. To confirm that the UE continues to monitor intra-frequency measurement quantity of the cells listed in System Information Block type 11 or 12 messages, after it has entered CELL_DCH state from idle mode. When the intra-frequency measurement reporting criteria specified in System Information Block type 11 or 12 messages have been met, it shall report the measurements using MEASUREMENT REPORT message(s).
2. To confirm that the UE terminates monitoring and reporting activities for the cells listed in "intra-frequency cell info list" IE in System Information Block type 11 or 12 messages, after it has received a MEASUREMENT CONTROL message that specifies the measurement type to be "intra-frequency measurement" with the same measurement identity as in System Information Block Type 11 or 12 messages.
3. To confirm that the UE reconfigures the monitoring and reporting activities based on the last MEASUREMENT CONTROL message received.

8.4.1.1A.4 Method of test

Initial Condition

System Simulator: 3 cells – Cell 1, Cell 2 and Cell 3 are active.

UE: "Registered idle mode on CS" (state 2) or "Registered idle mode on PS" (state 3) in cell 1 as specified in clause 7.4 of TS 34.108, depending on the CN domain supported by the UE. If the UE supports both CS and PS domains, the initial UE state shall be "Registered idle mode on CS/PS" (state 7).

Test Procedure

Table 8.4.1.1A-1 illustrates the downlink power to be applied for the 3 cells at various time instants of the test execution.

Column marked "T0" denotes the initial conditions, while column marked as "T1" will be applied during the test.

Table 8.4.1.1A-1

Parameter	Unit	Cell 1		Cell 2		Cell 3	
		T0	T1	T0	T1	T0	T1
UTRA RF Channel Number		Ch. 1		Ch. 1		Ch.1	
PCCPCH_RSCP	dBm	-69	-69	-74	-64	-79	-67

The UE is initially in idle mode and has selected cell 1 for camping. The System Information Block type 11 messages are modified with respect to the default settings to prevent reporting of "Cell synchronisation information" and also to include cell 2 into the monitored neighbour cell list. The key measurement parameters in the modified System Information Block message are as follow: measurement type = "intra-frequency measurement", measurement quantity = "PCCPCH RSCP", report criteria = "periodic reporting criteria", reporting interval = "64 seconds".

SS prompts the operator to make an outgoing call of a supported traffic class. SS and UE shall execute procedure P3 (for CS service) or P5 (for PS service). Next SS and UE shall execute procedure P7 (for CS service) or P9 (for PS service). Then SS and UE shall execute procedure P11 (for CS service) or P13 (for PS service).

The UE shall send a MEASUREMENT REPORT message after reaching CELL_DCH state, reporting cell 2's PCCPCH RSCP value. After 64 seconds has passed since SS receives the first MEASUREMENT REPORT message, the UE shall transmit a second MEASUREMENT REPORT message.

SS sends a MEASUREMENT CONTROL message on the downlink DCCH. In this message, SS configures an intra-frequency measurement based on the measurement quantity PCCPCH RSCP. Parameters used in this message are: measurement identity = "1", report criteria = "event-trigger", event identity = "1g". All intra-frequency cells are

removed. Cell 3 is included as new intra-frequency cell. SS checks to see that no MEASUREMENT REPORT messages are sent within the next 64 seconds (which is due to periodic reporting). SS reconfigures the downlink transmission power settings according to values in column "T1" in table 8.4.1.1A-1. The UE shall transmit a MEASUREMENT REPORT message when it detects that the PCCPCH RSCP of cell 3 is present. SS sends another MEASUREMENT CONTROL message on the downlink DCCH to include cell 2 in the monitored cells. SS configures an intra-frequency measurement based on the measurement quantity PCCPCH RSCP. Parameters used in this message are: measurement identity = "1", report criteria = "event-trigger", event identity = "1g". The UE shall transmit a MEASUREMENT REPORT message when it detects that the PCCPCH RSCP of cell 2 and indicating cell 2 as a best cell. SS calls for generic procedure C.3 to check that UE is in CELL_DCH state.

SS calls for generic procedure C.3 to check that UE is in CELL_DCH state.

Expected Sequence

Step	Direction		Message	Comment
	UE	SS		
1		←	System Information Block type 11	The UE is in idle mode and camped onto cell 1. The System Information Block type 11 messages to be transmitted are different from the default settings (see specific message contents). Cell 2 is included in CELL_INFO LIST.
2		↔	SS executes procedure P3 (clause 7.4.2.1.2) or P5 (clause 7.4.2.2.2) specified in TS 34.108.	UE reaches PS-CELL_DCH or CS-CELL_DCH
3		↔	SS executes procedure P7 (clause 7.4.2.3.2) or P9 (clause 7.4.2.4.2) specified in TS 34.108.	UE reaches PS-DCCH_DCH or CS-DCCH_DCH
4		↔	SS executes procedure P11 (clause 7.4.2.5.2) or P13 (clause 7.4.2.6.2) specified in TS 34.108.	UE reaches PS-DCCH+DTCH_DCH or CS-DCCH+DTCH_DCH
5		SS		SS shall wait for a MEASUREMENT REPORT message. This MEASUREMENT REPORT shall be received on or before 64 Seconds.
6		→	MEASUREMENT REPORT	After receiving this message, SS shall expect to receive the next MEASUREMENT REPORT message after 64 seconds
7		→	MEASUREMENT REPORT	SS shall receive consecutive MEASUREMENT REPORT messages at 64 seconds interval.
8		←	MEASUREMENT CONTROL	A measurement with "measurement identity" IE set to "1" is assigned, with the IE "CHOICE reporting criteria" set to "intra-frequency measurement reporting criteria". See specific message content for the rest of the message.
9				SS waits for 64 seconds and verifies that no further MEASUREMENT REPORT messages are detected on the uplink DCCH.

Step	Direction		Message	Comment
	UE	SS		
10				SS re-adjusts the downlink transmission power settings according to columns "T1" in table 8.4.1.1A-1.
11		→	MEASUREMENT REPORT	SS verifies that UE transmits a MEASUREMENT REPORT message triggered by cell 3 containing report the measured PCCPCH RSCP value of cell 3.
12		←	MEASUREMENT CONTROL	A MEASUREMENT CONTROL is sent to the UE to modify the list of the cells the UE shall monitor.
13		→	MEASUREMENT REPORT	SS verifies that UE transmits a MEASUREMENT REPORT message triggered by cell 2, containing report the measured PCCPCH RSCP value of cell 2. The UE shall report event 1G for change to best cell, cell2.
14		↔	CALL C.3	If the test result of C.3 indicates that UE is in CELL_DCH state, the test passes, otherwise it fails.

Specific Message Contents

All messages indicated below shall use the same content as described in default message content, with the following exceptions:

System Information Block type 11 (Step 1)

Information Element	Value/remark
SIB12 indicator	FALSE
FACH measurement occasion info	Not Present
Measurement control system information	
- Use of HCS	Not used
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	Not Present
	Absence of this IE is equivalent to default value 1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Not present
	(This IE shall be ignored by the UE for SIB11)
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	Not present
	Absence of this IE is equivalent to default value 0 dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE
- CHOICE Mode	TDD
- Primary CCPCH Info	Refer to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 of TS 34.108
- Cell selection and Re-selection	Not Present (The IE shall be absent as this is the serving cell)
	2
- Intra-frequency cell id	
- Cell info	
- Cell individual offset	Not present
	Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell	1024
- Read SFN Indicator	TRUE
- CHOICE Mode	TDD
- Primary CCPCH Info	Refer to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 of TS 34.108
- Cell selection and Re-selection info	Not present
	For neighbouring cell, if HCS is not used and all the parameters in cell selection and re-selection info are Default value, this IE is absent.
- Intra-frequency measurement quantity	
- Filter Coefficient	Not Present (Default is 0)
- CHOICE Mode	TDD
- Measurement quantity list	
- Measurement quantity	PCCPCH RSCP
- Intra-frequency measurement for RACH reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected cells	Not present
- Measurement Reporting Mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC

- Periodical Reporting / Event Trigger Reporting	Periodical reporting
Mode	
- CHOICE report criteria	Periodic reporting criteria
- Amount of reporting	Infinity
- Reporting interval	64 seconds
- Inter-frequency measurement system information	Not present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present

MEASUREMENT REPORT (Step 6 and 7)

Information Element	Value/remark
Measurement identity	Check to see if set to 1
Measured Results	
- CHOICE measurement	Check to see if set to "Intra-frequency measured results list"
- Intra-frequency measurement results	
- Cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 2
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
- Cell measured results	
- Cell Identity	Check to see if this IE is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 1
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
Measured Results on RACH	Check to see if this IE is absent
Additional Measured results	Check to see if this IE is absent
Event Results	Check to see if this IE is absent

MEASUREMENT CONTROL (Step 8)

Information Element	Value/remark
Measurement Identity	1
Measurement Command	Setup
Measurement Reporting Mode	
- Measurement Reporting Transfer Mode	Acknowledged Mode RLC
- Periodic Reporting / Event Trigger Reporting	Event Trigger
Mode	
Additional measurements list	Not Present
CHOICE measurement type	Intra-frequency measurement
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove all intra-frequency cells
- New intra-frequency cells	2 new intra-frequency cells
- Intra-frequency cell id	3
- Cell info	
- Cell individual offset	0 dB
- Reference time difference to cell	0 chips
- Read SFN Indicator	TRUE
- CHOICE mode	TDD
- Primary CCPCH Info	Set to same as used for cell 3
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0 dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE
- CHOICE mode	TDD
- Primary CCPCH Info	Set to same code as for cell 1
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter Coefficient	Not Present (Default is 0)
- CHOICE Mode	TDD
- Measurement quantity	PCCPCH RSCP
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- Cell synchronisation information reporting	TRUE
indicator	
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected cells	Not present
- Reporting cell status	Not Present
- Measurement validity	Not present
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Parameters required for each events	
- Intra-frequency event identity	1g
- Triggering condition 1	Not present
- Triggering condition 2	Not present
Reporting range	Not Present
Cells forbidden to affect reporting range	Not Present
W	Not Present
- Hysteresis	1 dB
Reporting deactivation threshold	Not Present
Replacement activation threshold	Not Present
- Time to trigger	0 ms
Amount of reporting	Not present

Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells	Not Present Present Report cells within active and/or monitored set on used frequency or within active and/or monitored set on non-used frequency 3
--	---

MEASUREMENT REPORT (Step 11)

Information Element	Value/remark
Measurement identity	Check to see if set to 1
Measured Results	
- CHOICE measurement	Check to see if set to "Intra-frequency measured results list"
- Intra-frequency measurement results	Check to see if measurement results for 2 cells are included (the order in which the different cells are reported is not important)
- Cell measured results	(for cell 1)
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 1
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
- Cell measured results	(for cell 3)
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is present and that the COUNT-C-SFN frame difference is included in it.
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 3
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
Measured Results on RACH	Check to see if this IE is absent
Additional Measured Results	Check to see if this IE is absent
Event Results	
- CHOICE event result	Check to see if this IE is set to "Intra-frequency measurement event results"
- Intra-frequency event identity	Check to see if this IE is set to "1g"
- Cell measured event results	
- CHOICE mode	Check to see if this IE is set to "TDD"
- Cell parameters Id	Check to see if it's the same for cell 3

MEASUREMENT CONTROL (Step 12)

Information Element	Value/remark
Measurement Identity	1
Measurement Command	Modify
Measurement Reporting Mode	Not Present
Additional measurements list	Not Present
CHOICE measurement type	Intra-frequency measurement
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency info list	1 new intra-frequency cells
- Intra-frequency cell id	2
- Cell info	
- Cell individual offset	0 dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	Set to same as used for cell 2
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	Not Present
- Intra-frequency reporting quantity	Not Present
- Reporting cell status	Not Present
- Measurement validity	Not Present
- CHOICE report criteria	Not Present

MEASUREMENT REPORT (Step 13)

Information Element	Value/remark
Measurement identity	Check to see if set to 1
Measured Results	
- CHOICE measurement	Check to see if set to "Intra-frequency measured results list"
- Intra-frequency measurement results	Check to see if measurement results for 3 cells are included (the order in which the different cells are reported is not important)
- Cell measured results	(for cell2)
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 2
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
- Cell measured results	(for cell1)
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 1
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
- Cell measured results	(for cell 3)
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is present and that the COUNT-C-SFN frame difference is included in it.
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 3
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
Measured Results on RACH	Check to see if this IE is absent
Additional Measured Results	Check to see if this IE is absent
Event Results	
- CHOICE event result	Check to see if this IE is set to "Intra-frequency measurement event results"
- Intra-frequency event identity	Check to see if this IE is set to "1g"
- Cell measured event results	
- CHOICE mode	Check to see if this IE is set to "TDD"
- Primary CCPCH Info	Check to see if it's the same code for cell 2

8.4.1.1A.5 Test Requirement

After step 5 the UE shall start to transmit 2 MEASUREMENT REPORT messages at 64 seconds interval. The measurement quantity "PCCPCH RSCP" of cell 2 shall be reported in these messages.

After step 8 the UE shall not transmit any MEASUREMENT REPORT messages within 64 seconds after SS has transmitted the MEASUREMENT CONTROL message in step 8.

After step 10 the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH, to report the PCCPCH RSCP value for cell 3. This MEASUREMENT REPORT message shall also contain IE "Event results", indicating the triggering of event '1g' by cell 3. It shall also contain the measured PCCPCH RSCP value and cell synchronisation information for cell 3, and the measured PCCPCH RSCP values for cell 1.

After step 12 the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH, to report the PCCPCH RSCP value for cell 2. This MEASUREMENT REPORT message shall also contain IE "Event results", indicating the triggering of event '1g' by cell 2.

<< END OF MODIFIED SECTION >>

3GPP TSG-R5 Meeting #27
Bath, England, 25th April – 29th April 2005

Tdoc **R5-050693**

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1233 rev - Current version: **5.11.1**

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:	Correction to RRC test case 8.4.1.5A (TDD)		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	8/04/2005
Category:	F	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:	As per the specific message content at step 6 of the expected sequence "MIB value tag" value for Master information block should be 2. However in the TTCN implementation "MIB value tag" used may be different. As the requirement of the test case is to have different MIB value tag the previous one, thus there is no need to mention the specific value in the prose.
Summary of change:	In the specific message content at step 6 and step 7 of the expected sequence "MIB value tag" has been changed to following statement "A value that is different from the previous MIB value tag"
Consequences if not approved:	Lack of coordination with TTCN

Clauses affected:	8.4.1.5A.4										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td></td> </tr> </table>	Y	N	X		X		X		Other core specifications	
Y	N										
X											
X											
X											
		Test specifications									
		O&M Specifications									
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.

<START OF MODIFIED SECTION>**8.4.1.5A Measurement Control and Report: Intra-frequency measurement for transition from CELL_DCH to CELL_FACH state (TDD)****8.4.1.5A.1 Definition****8.4.1.5A.2 Conformance requirement**

Upon transition from CELL_DCH to CELL_FACH/CELL_PCH/URA_PCH state, the UE shall:

- 1> stop intra-frequency type measurement reporting;
- 1> if the transition is due to a reconfiguration message which included the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD), and the UE selects a cell other than that indicated by this IE; or
- 1> if the transition is due to a reconfiguration message which does not include the IE "Primary CPICH info" (for FDD) or "Primary CCPCH info" (for TDD); or
- 1> if the transition is not due to a reconfiguration message:
 - 2> delete the measurements of type intra-frequency associated with the variable MEASUREMENT_IDENTITY.
- 1> begin monitoring cells listed in the IE "intra-frequency cell info list" received in System Information Block type 12 (or System Information Block type 11, according to subclause 8.1.1.6.11 in [8] TS 25.331).

Reference

3GPP TS 25.331, clause 8.4.1.6.1, 8.4.1.7.1

8.4.1.5A.3 Test Purpose

1. To confirm that the UE stops performing intra-frequency measurement reporting specified in a MEASUREMENT CONTROL message, when it moves from CELL_DCH state to CELL_FACH state.
2. To confirm that the UE reads the System Information Block type 11 or 12 messages when it enters CELL_FACH state from CELL_DCH state, and starts to monitor the cells listed in the IE "intra-frequency cell info list".
3. To confirm that the UE performs measurements on uplink RACH transmissions and appends the measured results in RACH messages, when it receives IE "intra-frequency reporting quantity for RACH reporting" and IE "Maximum number of reported cells on RACH" in the System Information Block type 11 or 12 messages.
4. To confirm that the UE applies the reporting criteria in IE "intra-frequency reporting criteria" in System Information Block Type 11 or 12 messages following a state transition from CELL_FACH to CELL_DCH, if no intra-frequency measurements applicable to CELL_DCH are stored.

8.4.1.5A.4 Method of test**Initial Condition**

System Simulator: 3 cells – Cell 1 and cell 2 are active, while cell 3 is switched off.

UE: PS-DCCH+DTCH_DCH (state 6-10) in cell 1 as specified in clause 7.4 of TS 34.108.

Specific Message Contents

For MASTER INFORMATION BLOCK and system information block 11 of Cell 1 (gives IE's which are different from defaults given in 34.108 subclause 6.1) to be transmitted before idle update preamble.

MASTER INFORMATION BLOCK

Use the same message sub-type found in clause 6.1 of TS 34.108, with the following exception:

Information Element	Value/Remarks
MIB Value Tag	1

System Information Block type 11

Use the same message sub-type found in clause 6.1 of TS 34.108, with the following exception:

Information Element	Value/remark
SIB12 indicator	FALSE
FACH measurement occasion info	Not Present
Measurement control system information	
- Use of HCS	Not used
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	Not present
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Not present
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	Not present
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary PCCPCH Info	Refer to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 of TS 34.108
- Cell selection and Re-selection info	Not present
- Cells for measurement	Not Present
-Intra-frequency measurement quantity	Not Present
-Intra-frequency reporting quantity for RACH reporting	Not Present
-Maximum number of reported cells on RACH	Not Present
-Reporting information for state CELL_DCH	Not Present
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present

Test Procedure

Table 8.4.1.5A-1 illustrates the downlink power to be applied for the 3 cells at various time instants of the test execution. Columns marked "T0" denote the initial conditions, while column marked as "T1" will be applied during the test.

Table 8.4.1.5A-1

Parameter	Unit	Cell 1			Cell 2			Cell 3		
		T0	T1	T2	T0	T1	T2	T0	T1	T2
UTRA RF Channel Number		Ch. 1			Ch. 1			Ch. 1		
PCCPCH RSCP	dBm	-60	-60	-70	-75	-85	-85	-122	-70	-60

The UE is initially in CELL_DCH state. The System Information Block type 11 message is modified compared to the default message contents, in order to prevent the reporting of "Cell synchronisation information". No measurement to be applied by the UE in CELL_DCH state is specified in any of the System Information Block type 11 or 12 messages.

SS sends a MEASUREMENT CONTROL message to UE. In this message, the SS requests the establishment of an intra-frequency measurement for the measurement of cell 2's PCCPCH RSCP. At the same time, reporting of PCCPCH RSCP values of active set cells and monitored set cells are requested with the reporting criteria set to "periodic

reporting" and "reporting interval" set to 16 seconds. The UE shall start transmitting MEASUREMENT REPORT messages at 16 seconds interval corresponding to the requested reporting event.

SS transmits PHYSICAL CHANNEL RECONFIGURATION message to move the UE to CELL_FACH. After receiving this message, the UE shall reconfigure itself and reply with a PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on RACH. SS monitors the uplink channels to verify that no MEASUREMENT REPORT messages are received.

SS reconfigures itself according to the settings in columns marked "T1" in table 8.4.1.5A-1. SS transmits System Information Block type 12 messages in cell 1, which include cell 3 into the IE "intra-frequency cell info list" and modifies SIB11 to indicate that SIB12 is now being broadcast. IEs "Intra-frequency reporting quantity for RACH Reporting" and IE "Maximum number of Reported cells on RACH" are also specified in the System Information Type 12 messages. Event type 1g reporting criterion is specified for intra-frequency measurements. SS transmit SYSTEM INFORMATION CHANGE INDICATION message to UE. SS waits until T305 has expired. The UE shall respond with a CELL UPDATE message, which comprises IE "Measured results on RACH" to report the readings of PCCPCH RSCP for cell 1 and cell 3. SS replies with CELL UPDATE CONFIRM message on the downlink DCCH. This message does not change the physical resources nor allocate any new RNTI identities. SS transmits PHYSICAL CHANNEL RECONFIGURATION message again, and configures dedicated physical channel for both uplink and downlink directions. The UE shall send PHYSICAL CHANNEL RECONFIGURATION COMPLETE message and return to CELL_DCH state. SS listens to the uplink DCCH for MEASUREMENT REPORT messages.

SS reconfigures itself according to the settings in columns marked "T2" in table 8.4.1.5A-1. Event 1g is triggered since the best cell is changed to cell 3 from cell 1.

SS shall receive the MEASUREMENT REPORT messages.

SS verifies that it includes PCCPCH RSCP values of the cells 1, 2 and 3 in IE "Cell measured results" and the triggering of event '1g' on cell 3 in IE "Event results".

Expected Sequence

Step	Direction		Message	Comment
	UE	SS		
1				UE is in PS-DCCH+DTCH_DCH (state 6-10) in cell 1.
2		←	MEASUREMENT CONTROL	SS requests for measurement of cell 2's PCCPCH RSCP value and reporting of PCCPCH RSCP values of active cell and monitored set cell.
3		→	MEASUREMENT REPORT	UE shall send periodic report at 16 seconds interval.
4		←	PHYSICAL CHANNEL RECONFIGURATION	SS moves the UE to CELL_FACH state.
5		→	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	UE reaches CELL_FACH state.
6		←	Master Information Block System Information Block type 11, 12	SS reconfigures itself according to the settings stated in column "T1" of table 8.4.1.5A-1. SIB 11 is modified to indicate that SIB12 is now broadcast and includes cell 2 as a neighbour cell. SIB 12 indicates that cell 3 is included in the IE "intra-frequency cell info list". Event 1g is also configured for cell 3. SS waits for 1 minute and verifies that no MEASUREMENT REPORT messages are detected on the uplink.
7		←	SYSTEM INFORMATION CHANGE INDICATION	SS waits until T305 has expired.
8		→	CELL UPDATE	UE shall transmit this message with measured results on RACH channels for cell 1 and cell 3 present in this message.
9		←	CELL UPDATE CONFIRM	No changes in physical resource allocation and RNTI identities.
10		←	PHYSICAL CHANNEL RECONFIGURATION	SS configures dedicated physical channels.
11		→	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	UE shall transit to CELL_DCH state.
11a				SS reconfigures itself according to the settings stated in column "T2" of table 8.4.1.5A-1.
12		→	MEASUREMENT REPORT	The UE shall report event 1G for change to best cell, cell3.

Specific Message Content

MEASUREMENT CONTROL (Step 2)

Information Element	Value/remark
Measurement Identity	5
Measurement Command	Setup
Measurement Reporting Mode	Acknowledged Mode RLC
- Measurement Reporting Transfer Mode	Periodical Reporting
- Periodic Reporting / Event Trigger Reporting Mode	
Additional measurements list	Not Present
CHOICE measurement type	Intra-frequency measurement
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency info list	
- Intra-frequency cell id	2
- Cell info	
- Cell individual offset	0 dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	Set to same as used for cell 2
- Cells for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter Coefficient	Not Present (Default is 0)
- CHOICE mode	TDD
- Measurement quantity list	
- Measurement quantity	PCCPCH RSCP
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
CHOICE MODE	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
CHOICE MODE	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected cells	Not present
- Reporting cell status	
- CHOICE reported cell	Report cells within active and/or monitored set on used frequency or within active and/or monitored set on non-used frequency
- Maximum number of reported cells	2
- Measurement validity	Not present
- CHOICE report criteria	Periodical reporting criteria
- Amount of reporting	Infinity
- Reporting interval	16 seconds

MEASUREMENT REPORT (Step 3)

Information Element	Value/remark
Measurement identity	Check to see if set to 5
Measured Results	
- CHOICE measurement	Check to see if set to "Intra-frequency measured results list"
- Intra-frequency measured results list	
- Cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 1
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
- Cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 2
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if this IE is absent
Measured Results on RACH	Check to see if this IE is absent
Additional measured result list	Check to see if this IE is absent
Event results	Check to see if this IE is absent

PHYSICAL CHANNEL RECONFIGURATION (Step 4)

Use the same message sub-type found in [9] TS 34.108 clause 9, which is entitled "(Packet to CELL_FACH from CELL_DCH in PS)"

MASTER INFORMATION BLOCK (Step 6)

Use the same message sub-type found in clause 6.1 of TS 34.108, with the following exception:

Information Element	Value/Remarks
MIB Value Tag	A value that is different from the previous MIB value tag²

System Information Block type 11 (Step 6)

Information Element	Value/remark
SIB12 indicator	TRUE
FACH measurement occasion info	Not Present
Measurement control system information	
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	Not present
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Not Present
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	Not Present
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary PCCPCH Info	Refer to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 of TS 34.108
- Cell selection and Re-selection info	Not present
- Intra-frequency cell id	2
- Cell info	
- Cell individual offset	Not Present
- Reference time difference to cell	Not present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary PCCPCH Info	Refer to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 of TS 34.108
- Cell selection and Re-selection info	
- Qoffset _{s,n}	0 dB
- Maximum allowed UL TX power	0 dBm
- HCS neighbouring cell information	Not Present
- CHOICE Mode	TDD
- Qrxlevmin	-103 dBm
- Cells for measurement	Not Present
-Intra-frequency measurement quantity	Not Present
-Intra-frequency reporting quantity for RACH reporting	Not Present
-Maximum number of reported cells on RACH	Not Present
-Reporting information for state CELL_DCH	Not Present
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present

System Information Block type 12 (Step 6)

Information Element	Value/remark
FACH measurement occasion info	Not Present
Measurement control system information	
- Use of HCS	Not used
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	6
- Intra-frequency cell cells	
- CHOICE intra-frequency cell removal	Not Present
- New intra-frequency cells	
- Intra-frequency cell id	3
- Cell info	
- Cell individual offset	Not Present
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH Info	Refer to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 of TS 34.108
- Cell selection and Re-selection info	
- Qoffset _{s,n}	0dB
- Maximum allowed UL TX power	30dBm
- HCS neighbouring cell information	Not Present
- CHOICE Mode	TDD
- Qrxlevmin	-103dBm
- Intra-frequency measurement quantity	
- Filter Coefficient	Not Present (Default is 0)
- CHOICE mode	TDD
- Measurement list	
- Measurement quantity	PCCPCH RSCP
- Intra-frequency reporting quantity for RACH reporting	
- SFN-SFN observed time difference reporting indicator	No report
- CHOICE mode	TDD
- Reporting quantity	PCCPCH RSCP
- Maximum number of reported cells on RACH	Current cell + best neighbour
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	FALSE
- CHOICE mode	TDD
- Proposed TGSN Reporting required	FALSE
- PCCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected cells	Not present
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Parameter required for each event	
- Intra-frequency event identity	1g
- Reporting range constant	20.0 dB
- W	0.0
- Hysteresis	1.0 dB
- Time to trigger	60 ms
- Amount of reporting	absent
- Reporting Interval	absent
- Reporting cell status	

- CHOICE <i>reported cell</i>	Report cells within active and/or monitored set on used frequency or within active and/or monitored set on non-used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not present
- Inter-RAT measurement system information	Not present
- Traffic volume measurement system information	Not present

SYSTEM INFORMATION CHANGE INDICATION (Step 7)

Information Element	Value/Remarks
BCCH modification info - MIB Value tag	A value that is different from the previous MIB value tag

CELL UPDATE (Step 8)

Information Element	Value/remark
U-RNTI	Check to see if set to the same value assigned during the execution of procedure P3 or P5.
START list	Checked to see if this IE is present
AM_RLC error indication(RB2, RB3 or RB4)	FALSE
AM_RLC error indication(RB>4)	FALSE
Cell update cause	Check to see if it is set to "Periodical cell update"
Failure case	Check to see if it is absent
Measured results on RACH	
- Measurement result for current cell	
- SFN-SFN observed time difference	Not Checked
- CHOICE mode	TDD
- Cell parameters Id	Check to see if the same as cell 1.
- PCCPCH RSCP	Check to see if it is present
- Measurement results for monitored cells	
- SFN-SFN observed time difference	Not Checked
- CHOICE mode	TDD
- Cell parameters Id	Check to see if the same as cell 3.
- PCCPCH RSCP	Check to see if it is present

PHYSICAL CHANNEL RECONFIGURATION (Step 10)

Use the same message sub-type found in [9] TS 34.108 clause 9, which is entitled "(Packet to CELL_DCH from CELL_FACH in PS)".

MEASUREMENT REPORT (Step 12)

Information Element	Value/remark
Measurement identity	Check to see if set to 6
Measured Results	
- CHOICE measurement	Check to see if set to "Intra-frequency measured results list"
- Intra-frequency measurement results list	
- Cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 3
- Proposed TGSN	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if it is absent
- Cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Check to see if it's the same for cell 1
- Proposed TGSN Reporting required	Check to see if this IE is absent
- Primary CCPCH RSCP	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
- Timeslot list	Check to see if it is absent
- Cell measured results	
- Cell Identity	Check to see if it is absent
- Cell synchronisation information	Check to see if this IE is absent
- Cell parameters Id	Check to see if it's the same for cell 2
- Proposed TGSN Reporting required	Check to see if this IE is absent
- PCCPCH RSCP reporting indicator	Check to see if this IE is present
- Pathloss	Check to see if this IE is absent
Measured Results on RACH	Check to see if this IE is absent
Event results	Check to see if this set to 'Intra-frequency measurement event results'
- Intra-frequency event identity	Check to see if set to '1g'
- Cell measurement event results	
- CHOICE Mode	Check to see if set to 'TDD'
- Cell parameters id	Check to see if it's the same for cell 3

8.4.1.5A.5 Test Requirement

After step 2, the UE shall start to transmit MEASUREMENT REPORT messages at 16 seconds interval. The message shall contain IE "measured result" to report cell 2's PCCPCH RSCP value.

After step 5, the UE shall not send any MEASUREMENT REPORT messages containing reporting quantities requested in MEASUREMENT CONTROL messages in step 2.

After step 7, the UE shall perform a cell update procedure and transmit a CELL UPDATE message. In this message, measured values PCCPCH RSCP for cell 1 and cell 3 shall be included in the IE "measured results on RACH".

After step 12, the UE shall apply the intra-frequency measurement reporting criteria" received in System Information Block type 12 messages of step 6. It shall send MEASUREMENT REPORT messages. In these messages, triggering of event '1g' shall be reported in IE "Event results" with IE " Cell parameters Id " containing the same for cell 3.

The message shall contain IE "measured result" to report PCCPCH RSCP values of cell 1, 2 and 3.

<END OF MODIFIED SECTION>

3GPP TSG-R5 Meeting #27
Bath, England, 25th April – 29th April, 2005

Tdoc **R5-050694**

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1234 rev - Current version: **5.11.1**

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:	8.2.2.43 RRC test case on seamless SRNS relocation using Radio Bearer Reconfiguration add TDD content		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	11/04/2005
Category:	B	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:	<p>There is no TDD test case on seamless SRNS relocation using the Radio Bearer Reconfiguration procedure.</p> <p>However, this procedure will be used in live networks for SRNS relocation. A typical scenario for using the Radio Bearer Reconfiguration procedure at SRNS relocation is where the target RNC and source RNC are from different vendors. Especially in those cases, the target RNC typically needs to reconfigure the radio bearers due to different RAB implementations than those in the source RNC.</p> <p>Also, the triggering of SRNS relocation specific UE actions with the RADIO BEARER RECONFIGURATION message is different than for other reconfiguration messages, since the IE "New U-RNTI" is used instead of the IE "Downlink counter synchronisation info".</p> <p>Typically the source RNC reserves some downlink RRC message sequence numbers for integrity protection to be used for downlink NAS messages sent during signalling between source and target RNC. Therefore, from the UE point of view, the SRB3 message received after the relocation typically has a gap in the RRC sequence numbering. This real network scenario should be reflected in T1 specifications.</p>
Summary of change:	<p>ADD TDD to the test case including:</p> <ol style="list-style-type: none"> 1. RF power 2. Specific Message Contents 3. Editorial changes

Consequences if not approved:	⌘	Insufficient test coverage.									
Clauses affected:	⌘	8.2.2.43									
Other specs affected:	⌘	<table border="1"> <thead> <tr> <th>Y</th> <th>N</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </tbody> </table>	Y	N		X		X		X	Other core specifications ⌘ Test specifications O&M Specifications
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.

8.2.2.43 Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Seamless SRNS relocation, without pending of ciphering, frequency band modification)

8.2.2.43.1 Definition

8.2.2.43.2 Conformance requirement

- 1> if the reconfiguration procedure is simultaneous with SRNS relocation procedure:
 - 2> if the transmitted message is a RADIO BEARER RECONFIGURATION:
 - 3> include the IE "New U-RNTI".

The UE shall:

- 1> if the received reconfiguration message is a RADIO BEARER RECONFIGURATION and the IE "New U-RNTI" is included:
 - 2> re-establish the RLC entity for RB2;
 - 2> set the new uplink and downlink HFN component of COUNT-C of RB2 to MAX(uplink HFN component of COUNT-C of RB2, downlink HFN component of COUNT-C of RB2);
 - 2> increment by one the downlink and uplink values of the HFN component of COUNT-C for RB2;
 - 2> calculate the START value according to subclause 8.5.9 in TS 25.331;
 - 2> include the calculated START values for each CN domain in the IE "START list" in the IE "Uplink counter synchronisation info".
- 1> if the IE "Integrity protection mode info" was present in the received reconfiguration message:
 - 2> start applying the new integrity protection configuration in the uplink for signalling radio bearer RB2 from and including the transmitted response message.

If the new state is CELL_DCH or CELL_FACH, the response message shall be transmitted using the new configuration after the state transition, and the UE shall:

- 1> if the received reconfiguration message is a RADIO BEARER RECONFIGURATION and the IE "New U-RNTI" is included:
 - 2> when RLC has confirmed the successful transmission of the response message:
 - 3> re-establish all AM and UM RLC entities with RB identities larger than 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the corresponding CN domain;
 - 3> re-establish the RLC entities with RB identities 1, 3 and 4 and set the first 20 bits of all the HFN component of the respective COUNT-C values to the START value included in the response message for the CN domain stored in the variable LATEST_CONFIGURED_CN_DOMAIN;
 - 3> set the remaining bits of the HFN component of COUNT-C values of all UM RLC entities to zero;
 - 3> re-initialise the PDCP header compression entities of each radio bearer in the variable ESTABLISHED_RABS as specified in TS 25.323.

...

The UE shall:

- 1> if IE "Integrity protection mode command" has the value "start" and the IE "Status" in the variable INTEGRITY_PROTECTION_INFO has the value "Started" and this IE was not included SECURITY MODE COMMAND:

NOTE: This case is used in SRNS relocation and in handover from GERAN *Iu mode*.

- 2> perform integrity protection on the received message, applying the new integrity protection configuration, as described in subclause 8.5.10.1 in TS 25.331 by:
 - 3> using the algorithm (UIA [TS 33.102]) indicated by the IE "Integrity protection algorithm" contained in the IE "Integrity protection mode info";
 - 3> using the IE "Integrity protection initialisation number", contained in the IE "Integrity protection mode info" as the value of FRESH [TS 33.102].
- 2> let RB_m be the signalling radio bearer where the reconfiguration message was received and let RB_n be the signalling radio bearer where the response message is transmitted;
- 2> for the downlink, for each signalling radio bearer, if for the signalling radio bearer, a security configuration triggered by a previous SECURITY MODE COMMAND has not yet been applied, due to the activation time for the signalling radio bearer not having been reached:
 - 3> set "Down link RRC Message sequence number" for this signalling radio bearer in the variable INTEGRITY_PROTECTION_INFO to (activation time -1), where the activation time is the corresponding activation time for this signalling radio bearer;
 - 3> if the previous SECURITY MODE COMMAND was received due to new keys being received:
 - 4> consider the new integrity protection configuration to include the received new keys.
 - 3> else if the previous SECURITY MODE COMMAND caused a change in LATEST_CONFIGURED_CN_DOMAIN:
 - 4> consider the new Integrity Protection configuration to include the keys associated with the LATEST_CONFIGURED_CN_DOMAIN associated with the previously received SECURITY MODE COMMAND.
- 2> start applying the new integrity protection configuration in the downlink for each signalling radio bearer in the IE "ESTABLISHED_RABS" except RB_m at the next received RRC message for the corresponding signalling radio bearer;
- 2> start applying the new integrity protection configuration in the downlink for signalling radio bearer RB_m from and including the received configuration message;
- 2> start applying the new integrity protection configuration in the uplink for signalling radio bearer RB_n from and including the transmitted response message;
- 2> start applying the new integrity protection configuration in the uplink for signalling radio bearers other than RB_n from the first message onwards.

Reference

3GPP TS 25.331 clause 8.2.2, .8.6.3.5.2.

8.2.2.43.3 Test purpose

1. To confirm that the UE performs a combined inter-frequency hard handover and SRNS relocation and then transmit a RADIO BEARER RECONFIGURATION COMPLETE message in the new cell.
2. To confirm that the UE correctly applies integrity protection after the SRNS relocation.
3. To confirm that the UE accepts a gap in the downlink RRC message sequence numbering for integrity protection on signalling radio bearer 3 after SRNS relocation.
4. In the case that ciphering is applied by the network, to confirm that the UE restarts ciphering following a successful SRNS relocation.

8.2.2.43.4 Method of test

Initial Condition

System Simulator: 2 cells – Cell 1 and 6

UE: PS-DCCH+DTCH_DCH (state 6-10) or CS-DCCH+DTCH_DCH (state 6-9) as specified in clause 7.4 of TS 34.108, depending on the CN domain(s) supported by the UE.

Test Procedure

Table 8.2.2.43

Parameter	Unit	Cell 1		Cell 6	
		T0	T1	T0	T1
UTRA RF Channel Number		Ch. 1		Ch. 2	
CPICH Ec (FDD)	dBm/3.84MHz	-60	-75	-75	-60
<u>P-CCPCH (TDD)</u>	<u>dBm</u>	<u>-60</u>	<u>-75</u>	<u>-75</u>	<u>-60</u>

Table 8.2.2.43 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution. Columns marked "T0" denote the initial conditions.

The UE is in the CELL_DCH state, camping onto cell 1. SS configures its downlink transmission power settings according to columns "T1" in table 8.2.2.43. The SS sends a RADIO BEARER RECONFIGURATION message requesting the UE to do a timing re-initialised inter-frequency hard handover combined with SRNS relocation. This message includes the IE "RRC State Indicator" set to "CELL_DCH", IE "New U-RNTI", the IE "Integrity protection mode info" and the IE "Timing Indication" set to "initialise".

UE shall reselect to cell 6 and SS verifies that the UE sends RADIO BEARER RECONFIGURATION COMPLETE message. This message also includes a calculated new START value according to the formula " $START_X' = MSB_{20}(\text{MAX}\{\text{COUNT-C}, \text{COUNT-I}\} | \text{radio bearers and signalling radio bearers using the most recently configured } CK_X \text{ and } IK_X\}) + 2$ ", a calculated IE "Integrity Check Info" using a new FRESH value as included in IE "Integrity protection initialisation number" in the IE "Integrity protection mode info" in the RADIO BEARER RECONFIGURATION message and a COUNT-I that includes subsequent HFN as used in the old integrity protection configuration.

SS then send IDENTITY REQUEST message on the DCCH using RLC-AM (SRB3) in order to confirm that the UE can communicate on SRB3 by using new integrity protection configuration, including using a gap in the downlink RRC message sequence number. The UE shall respond with an IDENTITY RESPONSE message on the uplink DCCH using RLC-AM (SRB3).

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
1		SS	Void	SS applies the downlink transmission power settings, according to the values in columns "T1" of table 8.2.2.43.
2		←	RADIO BEARER RECONFIGURATION	If IE "Ciphering mode info" is present in the SECURITY MODE COMMAND during initial condition set-up, this message is sent after last ciphering activation time has elapsed and there is no pending ciphering activation time. New integrity protection configuration is applied on DL SRB2. LAI and RAI of cell 6 are given to the UE, and are the same as cell 1.
3		→	RADIO BEARER RECONFIGURATION COMPLETE	The UE shall transmit this message after it reselects to cell 6. New calculated START value is included. New integrity protection configuration is applied on UL SRB2.
4		←	DOWNLINK DIRECT TRANSFER	NAS message embedded in this is IDENTITY REQUEST. New integrity protection configuration is applied on DL SRB3.
5		→	UPLINK DIRECT TRANSFER	NAS message embedded in this is IDENTITY RESPONSE. SS confirms that new integrity protection configuration is applied on UL SRB3 by UE. SS uses a gap in the downlink RRC message sequence numbering.

Specific Message Contents

RADIO BEARER RECONFIGURATION (Step 2) – for PS domain testing only ([FDD](#))

Use the same message sub-type found in [9] TS 34.108 clause 9, which is entitled "Packet to CELL_DCH from CELL_DCH in PS", with the following exception:

Downlink information common for all radio links <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - MAC-d HFN initial value - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{\text{Pilot-DPCH}}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSdT information - Default DPCH Offset Value 	Initialise Not present Not Present 0 (single) FDD 0 Not Present Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Not Present None Not Present Arbitrary set to value 0..306688 by step of 512
Downlink counter synchronisation info <ul style="list-style-type: none"> - RB with PDCP information list 	Not Present.
Frequency info CHOICE mode <ul style="list-style-type: none"> - UARFCN uplink (Nu) - UARFCN downlink (Nd) 	FDD Same uplink UARFCN as used for cell 6 Same downlink UARFCN as used for cell 6
Downlink information per radio link list <ul style="list-style-type: none"> -Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSdT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH 	FDD Set to same code as used for cell 6 Not Present Not Present Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400 Not Present 2 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present

[RADIO BEARER RECONFIGURATION \(Step 2\) – for PS domain testing only \(3.84 Mcps TDD\)](#)

[Use the same message sub-type found in \[9\] TS 34.108 clause 9, which is entitled “Packet to CELL_DCH from CELL_DCH in PS”, with the following exception:](#)

<u>Information Element</u>	<u>Value/remark</u>	<u>Release</u>
<u>Integrity protection mode info</u> - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number	Start Not Present UIA1 SS selects an arbitrary 32 bit number for FRESH	
<u>Activation time</u>	<u>Not present</u>	
<u>New U-RNTI</u> - SRNC identity - S-RNTI	0000 0000 0010B 0000 0000 0000 0000 0001B	
<u>CN Information info</u> - PLMN identity - CN common GSM-MAP NAS system information - GSM-MAP NAS system information - CN domain related information - CN domain identity - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain identity - CN domain specific NAS system information - GSM-MAP NAS system information	Not present 00 01H PS 05 00H CS 1E 01H	
<u>RB information to reconfigure list</u> - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue	<u>(UM DCCH for RRC)</u> 1 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present <u>(AM DCCH for RRC)</u> 2 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present <u>(AM DCCH for NAS_DT High priority)</u> 3 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present <u>(AM DCCH for NAS_DT Low priority)</u> 4 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present <u>(AM DTCH)</u> 20 Not Present Not Present Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Packet to CELL_DCH from CELL_DCH in PS" in the default RADIO BEARER SETUP message in TS 34.108. Not Present	

<u>Downlink information common for all radio links</u> - Downlink DPCH info common for all RL - Timing indicator - MAC-d HFN initial value - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - CHOICE <i>TDD option</i> - Default DPCH Offset Value	<u>Initialise</u> <u>Not present</u> <u>Not Present</u> <u>0 (single)</u> <u>TDD</u> <u>3.84 Mcps TDD (No Data)</u> <u>Arbitrary set to value 0..306688 by step of 512</u>	<u>REL-4</u>
<u>Downlink counter synchronisation info</u> - RB with PDCP information list	<u>Not Present.</u>	
<u>Frequency info</u> <u>CHOICE mode</u> - UARFCN (Nt)	<u>TDD</u> <u>Same UARFCN as used for cell 6</u>	
<u>Downlink information per radio link list</u> -Downlink information for each radio link - Choice mode - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE <i>TDD option</i> - CHOICE <i>SyncCase</i> - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE <i>mode</i> - DL CCTrCh List - DL CCTrCH List to Remove - SCCPCH information for FACH	<u>TDD</u> <u>TDD</u> <u>3.84 Mcps TDD</u> <u>Sync Case 1</u> <u>0</u> <u>Set to same code as used for cell 6</u> <u>FALSE</u> <u>TDD</u> <u>Set to agree with Cell 6 if different than Cell 1</u> <u>Set to agree with Cell 1 if different than Cell 6</u> <u>Not Present</u>	<u>REL-4</u>

RADIO BEARER RECONFIGURATION (Step 2) – for PS domain testing only (1.28 Mcps TDD)

Use the same message sub-type found in [9] TS 34.108 clause 9, which is entitled “Packet to CELL_DCH from CELL_DCH in PS”, with the following exception:

<u>Information Element</u>	<u>Value/remark</u>	<u>Release</u>
<u>Integrity protection mode info</u> - <u>Integrity protection mode command</u> - <u>Downlink integrity protection activation info</u> - <u>Integrity protection algorithm</u> - <u>Integrity protection initialisation number</u>	<u>Start</u> <u>Not Present</u> <u>UIA1</u> <u>SS selects an arbitrary 32 bit number for FRESH</u>	
<u>Activation time</u>	<u>Not present</u>	
<u>New U-RNTI</u> - <u>SRNC identity</u> - <u>S-RNTI</u>	<u>0000 0000 0010B</u> <u>0000 0000 0000 0000 0001B</u>	
<u>CN Information info</u> - <u>PLMN identity</u> - <u>CN common GSM-MAP NAS system information</u> - <u>GSM-MAP NAS system information</u> - <u>CN domain related information</u> - <u>CN domain identity</u> - <u>CN domain specific NAS system information</u> - <u>GSM-MAP NAS system information</u> - <u>CN domain identity</u> - <u>CN domain specific NAS system information</u> - <u>GSM-MAP NAS system information</u>	<u>Not present</u> <u>00 01H</u> <u>PS</u> <u>05 00H</u> <u>CS</u> <u>1E 01H</u>	
<u>RB information to reconfigure list</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u>	<u>(UM DCCH for RRC)</u> <u>1</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for RRC)</u> <u>2</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for NAS_DT High priority)</u> <u>3</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for NAS_DT Low priority)</u> <u>4</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DTCH)</u> <u>20</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Packet to CELL_DCH from CELL_DCH in PS" in the default RADIO BEARER SETUP message in TS 34.108.</u> <u>Not Present</u>	
- <u>RB stop/continue</u>	<u>Not Present</u>	

<u>Downlink information common for all radio links</u> - <u>Downlink DPCH info common for all RL</u> - <u>Timing indicator</u> - <u>MAC-d HFN initial value</u> - <u>CFN-targetSFN frame offset</u> - <u>Downlink DPCH power control information</u> - <u>DPC mode</u> - <u>CHOICE mode</u> - <u>CHOICE TDD option</u> - <u>TSTD indicator</u> - <u>Default DPCH Offset Value</u>	<u>Initialise</u> <u>Not present</u> <u>Not Present</u> <u>0 (single)</u> <u>TDD</u> <u>1.28 Mcps TDD</u> <u>FALSE</u> <u>Arbitrary set to value 0..306688 by step of 512</u>	<u>REL-4</u>
<u>Downlink counter synchronisation info</u> - <u>RB with PDCP information list</u>	<u>Not Present.</u>	
<u>Frequency info</u> <u>CHOICE mode</u> - <u>UARFCN (Nt)</u>	<u>TDD</u> <u>Same UARFCN as used for cell 6</u>	
<u>Downlink information per radio link list</u> - <u>Downlink information for each radio link</u> - <u>Choice mode</u> - <u>Primary CCPCH info</u> - <u>CHOICE mode</u> - <u>CHOICE TDD option</u> - <u>TSTD indicator</u> - <u>Cell parameters ID</u> - <u>SCTD indicator</u> - <u>Downlink DPCH info for each RL</u> - <u>CHOICE mode</u> - <u>DL CCTrCh List</u> - <u>DL CCTrCh List to Remove</u> - <u>SCCPCH information for FACH</u>	<u>TDD</u> <u>TDD</u> <u>1.28 Mcps TDD</u> <u>FALSE</u> <u>Set to same code as used for cell 6</u> <u>FALSE</u> <u>TDD</u> <u>Set to agree with Cell 6 if different than Cell 1</u> <u>Set to agree with Cell 1 if different than Cell 6</u> <u>Not Present</u>	<u>REL-4</u>

RADIO BEARER RECONFIGURATION (Step 2) – for CS domain testing only (FDD)

Use the same message sub-type found in [9] TS 34.108 clause 9, which is entitled “Non speech in CS” or “Speech in CS”, with the following exception:

Information Element	Value/remark
Integrity protection mode info <ul style="list-style-type: none"> - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number 	Start Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH
Activation time	Not present
New U-RNTI <ul style="list-style-type: none"> - SRNC identity - S-RNTI 	0000 0000 0010B 0000 0000 0000 0000 0001B
CN Information info <ul style="list-style-type: none"> - PLMN identity - CN common GSM-MAP NAS system information - GSM-MAP NAS system information - CN domain related information <ul style="list-style-type: none"> - CN domain identity - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain identity - CN domain specific NAS system information - GSM-MAP NAS system information 	Not present 00 01H PS 05 00H CS 1E 01H
RB information to reconfigure list <ul style="list-style-type: none"> - RB information to reconfigure <ul style="list-style-type: none"> - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure <ul style="list-style-type: none"> - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure <ul style="list-style-type: none"> - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure <ul style="list-style-type: none"> - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure <ul style="list-style-type: none"> - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info 	(UM DCCH for RRC) 1 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present (AM DCCH for RRC) 2 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present (AM DCCH for NAS_DT High priority) 3 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present (AM DCCH for NAS_DT Low priority) 4 Not Present Not Present Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108. Not Present 10 Not Present Not Present Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.
- RB information to reconfigure	

<ul style="list-style-type: none"> - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info 	<p>11</p> <p>Not Present</p> <p>Not Present</p> <p>Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</p>
<ul style="list-style-type: none"> - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info 	<p>12</p> <p>Not Present</p> <p>Not Present</p> <p>Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</p>
UL Transport channel information for all transport channels	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.
Added or Reconfigured UL TrCH information	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.
DL Transport channel information common for all transport channel	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.
Added or Reconfigured DL TrCH information	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.
<p>Frequency info</p> <p>CHOICE mode</p> <ul style="list-style-type: none"> - UARFCN uplink (Nu) - UARFCN downlink (Nd) 	<p>FDD</p> <p>Same uplink UARFCN as used for cell 6</p> <p>Same downlink UARFCN as used for cell 6</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - MAC-d HFN initial value - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value 	<p>Initialise</p> <p>Not present</p> <p>Not Present</p> <p>0 (single)</p> <p>FDD</p> <p>0</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Not Present</p> <p>None</p> <p>Not Present</p> <p>Arbitrary set to value 0..306688 by step of 512</p>
<p>Downlink counter synchronisation info</p> <ul style="list-style-type: none"> - RB with PDCP information list 	Not Present.
<p>Downlink information per radio link list</p> <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset 	<p>FDD</p> <p>Set to same code as used for cell 6</p> <p>Not Present</p> <p>Not Present</p> <p>Primary CPICH may be used</p> <p>Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400</p>

- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	2
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

[RADIO BEARER RECONFIGURATION \(Step 2\) – for CS domain testing only \(3.84 Mcps TDD\)](#)

[Use the same message sub-type found in \[9\] TS 34.108 clause 9, which is entitled “Non speech in CS” or “Speech in CS”, with the following exception:](#)

<u>Information Element</u>	<u>Value/remark</u>	<u>Release</u>
<u>Integrity protection mode info</u> - <u>Integrity protection mode command</u> - <u>Downlink integrity protection activation info</u> - <u>Integrity protection algorithm</u> - <u>Integrity protection initialisation number</u>	<u>Start</u> <u>Not Present</u> <u>UIA1</u> <u>SS selects an arbitrary 32 bit number for FRESH</u>	
<u>Activation time</u>	<u>Not present</u>	
<u>New U-RNTI</u> - <u>SRNC identity</u> - <u>S-RNTI</u>	<u>0000 0000 0010B</u> <u>0000 0000 0000 0000 0001B</u>	
<u>CN Information info</u> - <u>PLMN identity</u> - <u>CN common GSM-MAP NAS system information</u> - <u>GSM-MAP NAS system information</u> - <u>CN domain related information</u> - <u>CN domain identity</u> - <u>CN domain specific NAS system information</u> - <u>GSM-MAP NAS system information</u> - <u>CN domain identity</u> - <u>CN domain specific NAS system information</u> - <u>GSM-MAP NAS system information</u>	<u>Not present</u> <u>00 01H</u> <u>PS</u> <u>05 00H</u> <u>CS</u> <u>1E 01H</u>	
<u>RB information to reconfigure list</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u>	<u>(UM DCCH for RRC)</u> <u>1</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for RRC)</u> <u>2</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for NAS_DT High priority)</u> <u>3</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for NAS_DT Low priority)</u> <u>4</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>10</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</u>	
- <u>RB information to reconfigure</u>		

<ul style="list-style-type: none"> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> 	<p>11 Not Present Not Present Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</p>	
<ul style="list-style-type: none"> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> 	<p>12 Not Present Not Present Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</p>	
<u>UL Transport channel information for all transport channels</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>Added or Reconfigured UL TrCH information</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>DL Transport channel information common for all transport channel</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>Added or Reconfigured DL TrCH information</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>Frequency info</u> <u>CHOICE mode</u> <ul style="list-style-type: none"> <u>- UARFCN (Nt)</u> 	<u>TDD</u> Same UARFCN as used for cell 6	
<u>Downlink information common for all radio links</u> <ul style="list-style-type: none"> <u>- Downlink DPCH info common for all RL</u> <u>- Timing indicator</u> <u>- MAC-d HFN initial value</u> <u>- CFN-targetSFN frame offset</u> <u>- Downlink DPCH power control information</u> <u>- DPC mode</u> <u>- CHOICE mode</u> <u>- CHOICE TDD option</u> <u>- Default DPCH Offset Value</u> 	<u>Initialise</u> <u>Not present</u> <u>Not Present</u> <u>0 (single)</u> <u>TDD</u> <u>3.84 Mcps TDD (No Data)</u> <u>Arbitrary set to value 0..306688 by step of 512</u>	<u>REL-4</u>
<u>Downlink counter synchronisation info</u> <ul style="list-style-type: none"> <u>- RB with PDCP information list</u> 	<u>Not Present.</u>	
<u>Downlink information per radio link list</u> <u>-Downlink information for each radio link</u> <ul style="list-style-type: none"> <u>- Choice mode</u> <u>- Primary CCPCH info</u> <u>- CHOICE mode</u> <u>- CHOICE TDD option</u> <u>- CHOICE SyncCase</u> <u>- Timeslot</u> <u>- Cell parameters ID</u> <u>- SCTD indicator</u> <u>- Downlink DPCH info for each RL</u> <u>- CHOICE mode</u> <u>- DL CCTrCh List</u> <u>- DL CCTrCH List to Remove</u> <u>- SCCPCH information for FACH</u> 	<u>TDD</u> <u>TDD</u> <u>3.84 Mcps TDD</u> <u>Sync Case 1</u> <u>0</u> <u>Set to same code as used for cell 6</u> <u>FALSE</u> <u>TDD</u> <u>Set to agree with Cell 6 if different than Cell 1</u> <u>Set to agree with Cell 1 if different than Cell 6</u> <u>Not Present</u>	<u>REL-4</u>

[RADIO BEARER RECONFIGURATION \(Step 2\) – for CS domain testing only \(1.28 Mcps TDD\)](#)

[Use the same message sub-type found in \[9\] TS 34.108 clause 9, which is entitled “Non speech in CS” or “Speech in CS”, with the following exception:](#)

<u>Information Element</u>	<u>Value/remark</u>	<u>Release</u>
<u>Integrity protection mode info</u> - <u>Integrity protection mode command</u> - <u>Downlink integrity protection activation info</u> - <u>Integrity protection algorithm</u> - <u>Integrity protection initialisation number</u>	<u>Start</u> <u>Not Present</u> <u>UIA1</u> <u>SS selects an arbitrary 32 bit number for FRESH</u>	
<u>Activation time</u>	<u>Not present</u>	
<u>New U-RNTI</u> - <u>SRNC identity</u> - <u>S-RNTI</u>	<u>0000 0000 0010B</u> <u>0000 0000 0000 0000 0001B</u>	
<u>CN Information info</u> - <u>PLMN identity</u> - <u>CN common GSM-MAP NAS system information</u> - <u>GSM-MAP NAS system information</u> - <u>CN domain related information</u> - <u>CN domain identity</u> - <u>CN domain specific NAS system information</u> - <u>GSM-MAP NAS system information</u> - <u>CN domain identity</u> - <u>CN domain specific NAS system information</u> - <u>GSM-MAP NAS system information</u>	<u>Not present</u> <u>00 01H</u> <u>PS</u> <u>05 00H</u> <u>CS</u> <u>1E 01H</u>	
<u>RB information to reconfigure list</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u>	<u>(UM DCCH for RRC)</u> <u>1</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for RRC)</u> <u>2</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for NAS_DT High priority)</u> <u>3</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>(AM DCCH for NAS_DT Low priority)</u> <u>4</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "Signalling RB information to setup" for the corresponding radio bearer in the default RRC CONNECTION SETUP message (Transition to CELL_DCH) in TS 34.108.</u> <u>Not Present</u> <u>10</u> <u>Not Present</u> <u>Not Present</u> <u>Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</u>	
- <u>RB information to reconfigure</u>		

<ul style="list-style-type: none"> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> 	<p>11 Not Present Not Present Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</p>	
<ul style="list-style-type: none"> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> 	<p>12 Not Present Not Present Values as specified for the IE "RB information to setup" for the corresponding radio bearer for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.</p>	
<u>UL Transport channel information for all transport channels</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>Added or Reconfigured UL TrCH information</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>DL Transport channel information common for all transport channel</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>Added or Reconfigured DL TrCH information</u>	Values as specified for the corresponding IE for the case "Speech to CELL_DCH from CELL_DCH in CS" in the default RADIO BEARER SETUP message in TS 34.108.	
<u>Frequency info</u> <u>CHOICE mode</u> <ul style="list-style-type: none"> <u>- UARFCN (Nt)</u> 	<u>TDD</u> Same UARFCN as used for cell 6	
<u>Downlink information common for all radio links</u> <ul style="list-style-type: none"> <u>- Downlink DPCH info common for all RL</u> <u>- Timing indicator</u> <u>- MAC-d HFN initial value</u> <u>- CFN-targetSFN frame offset</u> <u>- Downlink DPCH power control information</u> <u>- DPC mode</u> <u>- CHOICE mode</u> <u>- CHOICE TDD option</u> <u>- TSTD indicator</u> <u>- Default DPCH Offset Value</u> 	<u>Initialise</u> <u>Not present</u> <u>Not Present</u> <u>0 (single)</u> <u>TDD</u> <u>1.28 Mcps TDD</u> <u>FALSE</u> Arbitrary set to value 0..306688 by step of 512	<u>REL-4</u>
<u>Downlink counter synchronisation info</u> <ul style="list-style-type: none"> <u>- RB with PDCP information list</u> 	<u>Not Present.</u>	
<u>Downlink information per radio link list</u> <ul style="list-style-type: none"> <u>-Downlink information for each radio link</u> <u>- Choice mode</u> <u>- Primary CCPCH info</u> <u>- CHOICE mode</u> <u>- CHOICE TDD option</u> <u>- TSTD indicator</u> <u>- Cell parameters ID</u> <u>- SCTD indicator</u> <u>- Downlink DPCH info for each RL</u> <u>- CHOICE mode</u> <u>- DL CCTrCh List</u> <u>- DL CCTrCh List to Remove</u> <u>- SCCPCH information for FACH</u> 	<u>TDD</u> <u>TDD</u> <u>1.28 Mcps TDD</u> <u>FALSE</u> Set to same code as used for cell 6 <u>FALSE</u> <u>TDD</u> Set to agree with Cell 6 if different than Cell 1 Set to agree with Cell 1 if different than Cell 6 <u>Not Present</u>	<u>REL-4</u>

RADIO BEARER RECONFIGURATION COMPLETE (Step 3) – for PS domain testing only

Check that the UE uses the same message sub-type found in TS 34.108 clause 9, with the following exception.

Information Element	Value/remark
Uplink counter synchronisation info - RB with PDCP information list - START list	Not present Check that this IE is present.

RADIO BEARER RECONFIGURATION COMPLETE (Step 3) – for CS domain testing only

Check that the UE uses the same message sub-type found in TS 34.108 clause 9, with the following exception.

Information Element	Value/remark
COUNT-C activation time	Check that this IE is present.
Uplink counter synchronisation info - RB with PDCP information list - START list	Not present Check that this IE is present.

DOWNLINK DIRECT TRANSFER (Step 4)

Use the same message content as found in clause 9 of TS 34.108, with the following exceptions:

Information Element	Value/remark
Integrity check info Message authentication code	Calculated result in SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
RRC Message sequence number	Current RRC SN + 3
CN domain identity	CS domain or PS domain (whichever applicable)
NAS message	IDENTITY REQUEST

NOTE: "Current RRC SN" is defined as the RRC message sequence number of the next transmitted RRC message on the particular radio bearer.

8.2.2.43.5 Test requirement

After step 2, the UE shall transmit a RADIO BEARER RECONFIGURATION COMPLETE message on the uplink DCCH using AM RLC which includes a calculated new START value according to the formula " $START_X' = MSB_{20}(\text{MAX}\{\text{COUNT-C}, \text{COUNT-I} \mid \text{radio bearers and signalling radio bearers using the most recently configured } CK_X \text{ and } IK_X\}) + 2$ ", calculated IE "Integrity Check Info" using the new FRESH value as included in IE "Integrity protection initialisation number" in IE "Integrity protection mode info" in RADIO BEARER RECONFIGURATION message and COUNT-I that includes subsequent HFN as used in the old integrity protection configuration. The UE, further more, shall apply the new integrity protection configuration for the first received/sent RRC message on SRB0, SRB3, and SRB4 after receiving the RADIO BEARER RECONFIGURATION message (i.e. immediately). For SRB2 the new integrity protection configuration shall be applied from and including the received RADIO BEARER RECONFIGURATION message (DL) and the sent RADIO BEARER RECONFIGURATION COMPLETE message (UL).

After step 3, the UE shall respond with an IDENTITY RESPONSE message to SS and apply the new integrity protection configuration on this message.

8.2.3 Radio Bearer Release

3GPP TSG R5 Meeting #27
Bath, England, 25th April – 29th April 2005

R5-050695

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1235 rev - Current version: 5.11.1

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:	Correction to 8.1.8.3 to add TDD to step 2		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	12/04/05
Category:	F	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:	The message content of RADIO BEARER SETUP (Step 2) (3.84 & 1.28 Mcps TDD) is missing.
Summary of change:	In the message content of RADIO BEARER SETUP (Step 2) add content for 3.84 and 1.28 Mcps TDD.
Consequences if not approved:	Ambiguities exist in the test prose as to what to do for TDD.

Clauses affected:	8.1.8.3										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N		X		X		X	Other core specifications	
Y	N										
	X										
	X										
	X										
		Test specifications									
		O&M Specifications									
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.

8.1.8.3 Counter check in CELL_DCH state, with asymmetric RAB

8.1.8.3.1 Definition

8.1.8.3.2 Conformance requirement

When the UE receives a COUNTER CHECK message it shall compare the COUNT-C MSB values received in the IE "RB COUNT-C MSB information" in the COUNTER CHECK message to the COUNT-C MSB values of the corresponding radio bearers.

The UE shall:

- 1> if no COUNT-C exists for a radio bearer for a given direction (uplink or downlink) because:
 - 2> it is a uni-directional radio bearer configured only for the other direction (downlink or uplink respectively),
or
 - 2> it has been configured to RLC-TM mode in one direction (uplink or downlink) and RLC-UM in the other (downlink or uplink respectively),
 - 3> set the COUNT-C in the IE "RB COUNT-C information" in the COUNTER CHECK RESPONSE message, to any value;
- 1> submit a COUNTER CHECK RESPONSE message to lower layers for transmission on the uplink DCCH using AM RLC.

Reference

3GPP TS 25.331 clause 8.1.15.

8.1.8.3.3 Test purpose

To confirm that the UE transmits a COUNTER CHECK RESPONSE message even if COUNT-C does not exist for a radio bearer for a given direction for reasons given in the above section.

8.1.8.3.4 Method of test

Initial Condition

System Simulator: 1 cell

UE: CS-DCCH_DCH (state 6-5) or PS-DCCH_DCH (state 6-7) as specified in clause 7.4 of TS 34.108, depending on the domain supported by the UE.

Test Procedure

The UE is brought to the CELL_DCH state after a successful outgoing call attempt. SS sends a RADIO BEARER SETUP message to set up an asymmetric radio bearer. UE shall configure accordingly and then reply with a RADIO BEARER SETUP COMPLETE message. Then SS transmits a COUNTER CHECK message. The UE shall send a COUNTER CHECK RESPONSE message on the uplink DCCH.

Expected sequence

Step	Direction		Message	Comment
	UE	SS		
1				The UE is brought to CELL_DCH state after an outgoing call has been established successfully.
2		←	RADIO BEARER SETUP	See specific message contents for this message
3		→	RADIO BEARER SETUP COMPLETE	
4		←	COUNTER CHECK	See specific message content.
5		→	COUNTER CHECK RESPONSE	The message shall include the IE "RB COUNT-C information".

Specific Message Contents

RADIO BEARER SETUP (Step 2) (FDD)

The contents of RADIO BEARER SETUP message in this test case is identical to the message sub-type indicated by "Non speech from CELL_DCH to CELL_DCH in CS" or "Speech from CELL_DCH to CELL_DCH in CS" or "Packet to CELL_DCH from CELL_DCH in PS" in [9] TS 34.108 clause 9, with the following exception:

Information Element	Value/remark
RAB information for setup <ul style="list-style-type: none"> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info <ul style="list-style-type: none"> - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode <ul style="list-style-type: none"> - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list <ul style="list-style-type: none"> - RLC size index - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	0000 0101B (for PS domain) or 0000 0001B (for CS domain) The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain or CS domain (depending on the domain supported by the UE) Not Present UseT315 (for PS domain) or UseT314 (for CS domain) 9 FALSE Not present Absent Not present RLC info TM RLC Not Present False UM RLC 2 RBMuxOptions Not Present 1 DCH 4 Not Present Configured 8 1 DCH 9 Not Present Not Present Not Present 1 RACH Not Present 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 8 1 FACH Not Present Not Present 7
Added or Reconfigured TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured UL TrCH information <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate 	1 DCH added DCH 4 Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set All Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
Added or Reconfigured TrCH information list	1 DCH
Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	9
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	1
- DCH quality target	
- BLER Quality value	-2.0

RADIO BEARER SETUP (Step 2) (3.84 Mcps TDD)

The contents of RADIO BEARER SETUP message in this test case is identical to the message sub-type indicated by "Non speech from CELL_DCH to CELL_DCH in CS" or "Speech from CELL_DCH to CELL_DCH in CS" or "Packet to CELL_DCH from CELL_DCH in PS" in [9] TS 34.108 clause 9, with the following exception:

<u>Information Element</u>	<u>Value/remark</u>
<u>RAB information for setup</u> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity	0000 0101B (for PS domain) or 0000 0001B (for CS domain) The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain or CS domain (depending on the domain supported by the UE) Not Present UseT315 (for PS domain) or UseT314 (for CS domain) 9 FALSE Not present Absent Not present RLC info TM RLC Not Present False UM RLC 2 RBMuxOptions Not Present 1 DCH 4 Not Present Configured 8 1 DCH 9 Not Present Not Present Not Present 1 RACH Not Present 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 8 1 FACH Not Present Not Present 7
<u>Added or Reconfigured TrCH information list</u> - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate	1 DCH added DCH 4 Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set All Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

<u>- Rate matching attribute</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>- CRC size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>Added or Reconfigured TrCH information list</u>	<u>1 DCH</u>
<u>Added or Reconfigured DL TrCH information</u>	
<u>- Downlink transport channel type</u>	<u>DCH</u>
<u>- DL Transport channel identity</u>	<u>9</u>
<u>- CHOICE DL parameters</u>	<u>Same as UL</u>
<u>- Uplink transport channel type</u>	<u>DCH</u>
<u>- UL TrCH identity</u>	<u>1</u>
<u>- DCH quality target</u>	
<u>- BLER Quality value</u>	<u>-2.0</u>

RADIO BEARER SETUP (Step 2) (1.28 Mcps TDD)

The contents of RADIO BEARER SETUP message in this test case is identical to the message sub-type indicated by "Non speech from CELL_DCH to CELL_DCH in CS" or "Speech from CELL_DCH to CELL_DCH in CS" or "Packet to CELL_DCH from CELL_DCH in PS" in [9] TS 34.108 clause 9, with the following exception:

<u>Information Element</u>	<u>Value/remark</u>
<u>RAB information for setup</u> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity	0000 0101B (for PS domain) or 0000 0001B (for CS domain) The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain or CS domain (depending on the domain supported by the UE) Not Present UseT315 (for PS domain) or UseT314 (for CS domain) 9 FALSE Not present Absent Not present RLC info TM RLC Not Present False UM RLC 2 RBMuxOptions Not Present 1 DCH 4 Not Present Configured 8 1 DCH 9 Not Present Not Present Not Present 1 RACH Not Present 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 8 1 FACH Not Present Not Present 7
<u>Added or Reconfigured TrCH information list</u> - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate	1 DCH added DCH 4 Dedicated transport channels Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set All Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set

- Rate matching attribute	Reference to TS34.108 clause 6.11 Parameter Set
- CRC size	Reference to TS34.108 clause 6.11 Parameter Set
Added or Reconfigured TrCH information list	1 DCH
Added or Reconfigured DL TrCH information	DCH
- Downlink transport channel type	9
- DL Transport channel identity	Same as UL
- CHOICE DL parameters	DCH
- Uplink transport channel type	1
- UL TrCH identity	1
- DCH quality target	
- BLER Quality value	-2.0

COUNTER CHECK (Step 4)

Information Element	Value/remark
Message Type	
RRC transaction identifier	0
Integrity check info	
Message authentication code	Calculated result in SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
RRC Message sequence number	Next RRC SN
RB COUNT-C MSB information	
- RB COUNT-C MSB information	
- RB identity	9
- COUNT-C MSB uplink	Arbitrary
- COUNT-C MSB downlink	Set to current COUNT-C for RB#9 in downlink

COUNTER CHECK RESPONSE (Step 5)

Information Element	Value/remark
Message Type	
RRC transaction identifier	0
Integrity check info	Not checked
RB COUNT-C information	
- RB identity	Check to see if set to 9
- COUNT-C uplink	Check to see if it is present
- COUNT-C downlink	Check to see if it is present

8.1.8.3.5 Test requirement

After step 2, the UE shall transmit a RADIO BEARER SETUP COMPLETE message on the uplink DCCH.

After step 4, the UE shall transmit a COUNTER CHECK RESPONSE message.

3GPP TSG-R5 Meeting #27
Bath, England, 25th April - 29th April 2005

Tdoc **R5-050696**

CR-Form-v7.1

CHANGE REQUEST

34.123-1 CR 1236 rev - Current version: **5.11.1**

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:	Add TDD to RRC test case 8.3.11.4																		
Source:	3GPP TSG RAN WG5 (Testing)																		
Work item code:	TEI																		
Date:	012/04/2005																		
Category:	F																		
Use <u>one</u> of the following categories:																			
<table border="0"> <tr> <td>F (correction)</td> <td>Ph2 (GSM Phase 2)</td> </tr> <tr> <td>A (corresponds to a correction in an earlier release)</td> <td>R96 (Release 1996)</td> </tr> <tr> <td>B (addition of feature),</td> <td>R97 (Release 1997)</td> </tr> <tr> <td>C (functional modification of feature)</td> <td>R98 (Release 1998)</td> </tr> <tr> <td>D (editorial modification)</td> <td>R99 (Release 1999)</td> </tr> <tr> <td></td> <td>Rel-4 (Release 4)</td> </tr> <tr> <td></td> <td>Rel-5 (Release 5)</td> </tr> <tr> <td></td> <td>Rel-6 (Release 6)</td> </tr> <tr> <td></td> <td>Rel-7 (Release 7)</td> </tr> </table>		F (correction)	Ph2 (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)		Rel-4 (Release 4)		Rel-5 (Release 5)		Rel-6 (Release 6)		Rel-7 (Release 7)
F (correction)	Ph2 (GSM Phase 2)																		
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	Rel-5 (Release 5)																		
	Rel-6 (Release 6)																		
	Rel-7 (Release 7)																		
Detailed explanations of the above categories can be found in 3GPP TR 21.900 .																			
Release:	Rel-5																		

Reason for change:	Subclause 8.3.11.4.4 of specifies under 'Specific message contents' the 'CELL UPDATE CONFIRM' message does not have any TDD content.
Summary of change:	Add the specific message contents in 8.3.11.4.4 of 3GPP TS 34.123-1 for the Cell Update Confirm message (STEP 9) for TDD.
Consequences if not approved:	TDD tests will not run.

Clauses affected:	8.3.11.4.4								
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N								
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
Other comments:									

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- 1) Fill out the above form. The symbols above marked contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<START OF MODIFIED SECTION 8.3.11.4.4>**8.3.11.4.4 Method of test****Initial conditions**

System Simulator: 2 cells - Cell 1 is UTRAN, Cell 2 is GPRS. 51.010 clauses 20.22 and 40.1.1 shall be referenced for the default parameters of cell 2.

All cells belong to the same PLMN . UTRAN and GPRS cells belong to different location area.

UE: PS-DCCH+DTCH_DCH (State 6-10) in cell 1 as specified in clause 7.4 of TS 34.108, one PS domain RAB is established.

Related ICS/IXIT statement

- UE supports both GSM/GPRS and UTRAN Radio Access Technologies,
- UE supports UTRAN interactive/ background UL: 64kbps, DL: 64 kbps/PS RAB + uplink:3.4 DL:3.4 kbps SRBs,
- UE supports GSM-P, GSM-E, GSM-DCS, GSM-450, GSM-480,

Test Procedure

The SS starts the UTRAN cell and brings the UE into PS-DCCH+DTCH_DCH (state 6-10). The SS starts GPRS cell, then sends CELL CHANGE ORDER FROM UTRAN indicating the target cell description, GPRS cell, to the UE through DCCH of the serving UTRAN cell. The UE receives the command and configures itself accordingly but cannot complete the cell change and wants to revert to the old configuration, but the UE cannot revert to the old configuration because the SS shall not use the old configuration. The UE transmit CELL UPDATE message on uplink CCCH with IE "Cell update cause" set to "radio link failure". The SS shall transmit CELL UPDATE CONFIRM message on downlink CCCH after receiving CELL UPDATE message. The UE transmits PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH using AM RLC and subsequently transmits the CELL CHANGE ORDER FAILURE message to the SS in UTRAN cell, on the DCCH using AM RLC, setting the value of IE " Inter-RAT change failure " to " physical channel failure".

Step	Direction		Message	Comments
	UE	SS		
1	UE			The SS brings the UE into PS-DCCH+DTCH_DCH (State 6-10) in cell 1
2	SS			The SS configures cell 2 as a GSM cell with GPRS enabled
3	←		CELL CHANGE ORDER FROM UTRAN	Send on cell 1 (UTRAN cell) and the message indicates: the target cell description for GSM/GPRS.
3a	SS			SS removes the physical channel (DPCH), which was allocated to the mobile before Cell Change Order From UTRAN transmission
4	UE			The UE accepts the cell change command and switches to the GSM/GPRS specified in the CELL CHANGE ORDER FROM UTRAN
5	→		CHANNEL REQUEST	The SS receives this burst on RACH of cell 2 (GPRS cell) to establish temporary block flow. It implies that the UE has switched to GPRS cell.
6	←		IMMEDIATE ASSIGNMENT REJECT	SS rejects the channel request
7			VOID	
8	→		CELL UPDATE	The value "radio link failure" shall be set in IE "Cell update cause".
9	←		CELL UPDATE CONFIRM	This message include IE "Physical channel information elements".
10				The SS configure the dedicated physical channel according to the IE "Physical channel information elements" included in the CELL UPDATE CONFIRM message.
11	→		PHYSICAL CHANNEL RECONFIGURATION COMPLETE	
12	→		CELL CHANGE ORDER FROM UTRAN FAILURE	The IE "Inter-RAT failure cause" shall be set to "physical channel failure"

Specific message contents

CELL CHANGE ORDER FROM UTRAN

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects one integer between 0 to 3
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.

Information Element	Value/remark
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
Activation time	Now
Target cell description	
- CHOICE <i>Radio Access Technology</i>	
- GSM	
- BSIC	BSIC of Cell 2
- Band Indicator	Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band"
- BCCH ARFCN	Allocated BCCH ARFCN of Cell 2
- NC mode	Not present

CELL UPDATE (Step 8)

The contents of CELL UPDATE message is identical as "Contents of CELL UPDATE message" as found in TS 34.108, clause 9, with the following exceptions:

Information Element	Value/remark
U-RNTI	
- SRNC Identity	Check to see if set to '0000 0000 0001'
- S-RNTI	Check to see if set to '0000 0000 0000 0000 0001'
Cell Update Cause	"radio link failure"

CELL UPDATE CONFIRM (Step 9) [\(FDD\)](#)

The contents of CELL UPDATE CONFIRM message is identical as "CELL UPDATE CONFIRM message" as found in TS 34.108, clause 9, with the following exceptions:

Information Element	Value/remark
U-RNTI	Same as CELL UPDATE message in step 3
RRC State indicator	CELL_DCH
Frequency info	
- UARFCN uplink (Nu)	Reference to TS34.108 clause 5.1 Test frequencies
- UARFCN downlink (Nd)	Reference to TS34.108 clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE <i>channel requirement</i>	Uplink DPCH info
- Uplink DPCH power control info	
- DPCCH power offset	-80dB (i.e. ASN.1 IE value of -40)
- PC Preamble	1 frame
- SRB delay	7 frames

- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- Scrambling code type	Long
- Scrambling code number	0
- Number of DPDCH	Not Present
- spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	TRUE
- Number of FBI bit	Not present
- Puncturing Limit	p10-96
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Initialise
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset $P_{\text{Pilot-DPDCH}}$	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	flexible
- TFCI existence	TRUE
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Set to value: Default DPCH Offset Value (as currently stored in SS) mod 38400
Downlink information for each radio links	
CHOICE Mode	
- Primary CPICH info	FDD
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used

- DPCH frame offset	Set to value : Default DPCH Offset Value (as currently stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	2
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	SF-1 (SF is reference to TS34.108 clause 6.10 Parameter Set)
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	-a
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

CELL UPDATE CONFIRM (Step 9) (3.84 Mcps TDD)

The contents of CELL UPDATE CONFIRM message is identical as "CELL UPDATE CONFIRM message" as found in TS 34.108, clause 9, with the following exceptions:

<u>Information Element</u>	<u>Value/remark</u>
<u>U-RNTI</u>	<u>Same as CELL UPDATE message in step 3</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>
<u>Frequency info</u>	
<u>- UARFCN (Nt)</u>	<u>Reference to TS34.108 clause 5.1 Test frequencies</u>
<u>Maximum allowed UL TX power</u>	<u>33dBm</u>
<u>CHOICE channel requirement</u>	<u>Uplink DPCH info</u>
<u>- Uplink DPCH power control info</u>	
<u>- CHOICE mode</u>	<u>TDD</u>
<u>- UL target SIR</u>	<u>6 db</u>
<u>- CHOICE UL OL PC info</u>	<u>Broadcast UL OL PC info</u>
<u>- CHOICE mode</u>	<u>TDD</u>
<u>- UL CCTrCH List</u>	<u>1</u>
<u>- UL target SIR</u>	<u>6</u>
<u>- Time info</u>	
<u>- Activation time</u>	<u>Now</u>
<u>- Duration</u>	<u>Infinite</u>
<u>Downlink information common for all radio links</u>	
<u>- Downlink DPCH info common for all RL</u>	

<u>- Timing indication</u>	<u>Initialise</u>
<u>- CFN-targetSFN frame offset</u>	<u>Not Present</u>
<u>- Downlink DPCH power control information</u>	
<u>- CHOICE mode</u>	<u>TDD (No Data)</u>
<u>- CHOICE mode</u>	<u>TDD (No Data)</u>
<u>- CHOICE mode</u>	<u>TDD</u>
<u>- CHOICE TDD option</u>	<u>3.84 Mcps TDD (No Data)</u>
<u>- Default DPCH Offset Value</u>	<u>Set to value: Default DPCH Offset Value (as currently stored in SS) mod 38400</u>
<u>Downlink information for each radio links</u>	
<u>- CHOICE Mode</u>	<u>TDD</u>
<u>- Primary CCPCH info</u>	
<u>- CHOICE Mode</u>	<u>TDD</u>
<u>- CHOICE TDD option</u>	<u>3.84 Mcps TDD</u>
<u>- CHOICE SyncCase</u>	<u>Sync Case 1</u>
<u>- Timeslot</u>	<u>0</u>
<u>- SCTD indicator</u>	<u>FALSE</u>
<u>- Downlink DPCH info for each RL</u>	
<u>- CHOICE mode</u>	<u>TDD</u>
<u>- DL CCTrCh List</u>	
<u>- TFCS ID</u>	<u>1</u>
<u>- Time info</u>	
<u>- Activation time</u>	<u>Now</u>
<u>- Duration</u>	<u>Infinite</u>
<u>- Common timeslot info</u>	<u>Default</u>
<u>- Downlink DPCH timeslots and codes</u>	<u>Default</u>
<u>- UL CCTrCH TPC List</u>	<u>Default</u>
<u>- SCCPCH information for FACH</u>	<u>Not Present</u>

CELL UPDATE CONFIRM (Step 9) (1.28 Mcps TDD)

The contents of CELL UPDATE CONFIRM message is identical as "CELL UPDATE CONFIRM message" as found in TS 34.108, clause 9, with the following exceptions:

<u>Information Element</u>	<u>Value/remark</u>
<u>U-RNTI</u>	<u>Same as CELL UPDATE message in step 3</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>

<u>Frequency info</u>	
<u>- UARFCN uplink (Nu)</u>	<u>Reference to TS34.108 clause 5.1 Test frequencies</u>
<u>- UARFCN downlink (Nd)</u>	<u>Reference to TS34.108 clause 5.1 Test frequencies</u>
<u>Maximum allowed UL TX power</u>	<u>33dBm</u>
<u>CHOICE channel requirement</u>	<u>Uplink DPCH info</u>
<u>- Uplink DPCH power control info</u>	
<u>- CHOICE mode</u>	<u>TDD</u>
<u>- UL target SIR</u>	<u>6 db</u>
<u>- CHOICE UL OL PC info</u>	<u>Individually Signalled</u>
<u>- CHOICE TDD option</u>	<u>1.28 Mcps TDD</u>
<u>- TPC step size</u>	<u>1dB</u>
<u>- UL CCTrCH List</u>	<u>1</u>
<u>- UL target SIR</u>	<u>6</u>
<u>- Time info</u>	
<u>- Activation time</u>	<u>Now</u>
<u>- Duration</u>	<u>Infinite</u>
<u>Downlink information common for all radio links</u>	
<u>- Downlink DPCH info common for all RL</u>	
<u>- Timing indicator</u>	<u>Initialise</u>
<u>- CFN-targetSFN frame offset</u>	<u>Not Present</u>
<u>- Downlink DPCH power control information</u>	
<u>- CHOICE mode</u>	<u>TDD (NoData)</u>
<u>- CHOICE mode</u>	<u>TDD (NoData)</u>
<u>- CHOICE mode</u>	<u>TDD</u>
<u>- CHOICE TDD option</u>	<u>1.28 Mcps TDD</u>
<u>- TSTD indicator</u>	<u>FALSE</u>
<u>- Default DPCH Offset Value</u>	<u>Set to value: Default DPCH Offset Value (as currently stored in SS) mod 38400</u>
<u>Downlink information for each radio links</u>	
<u>- CHOICE Mode</u>	<u>TDD</u>
<u>- Primary CCPCH info</u>	
<u>- CHOICE Mode</u>	<u>TDD</u>
<u>- CHOICE TDD option</u>	<u>1.28 Mcps TDD</u>
<u>- TSTD indicator</u>	<u>FALSE</u>
<u>- SCTD indicator</u>	<u>FALSE</u>

<u>- Downlink DPCH info for each RL</u>	
<u>- CHOICE mode</u>	<u>TDD</u>
<u>- DL CCTrCh List</u>	
<u>- TFCS ID</u>	<u>1</u>
<u>- Time info</u>	
<u>- Activation time</u>	<u>Now</u>
<u>- Duration</u>	<u>Infinite</u>
<u>- Common timeslot info</u>	<u>Default</u>
<u>- Downlink DPCH timeslots and codes</u>	<u>Default</u>
<u>- UL CCTrCH TPC List</u>	<u>Default</u>
<u>- SCCPCH information for FACH</u>	<u>Not Present</u>

CELL CHANGE ORDER FROM UTRAN FAILURE

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the same value used in the corresponding downlink CELL CHANGE ORDER FROM UTRAN message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Inter-RAT change failure	
-Inter-RAT change failure cause	physical channel failure

<END OF MODIFIED SECTION>

3GPP TSG-R5 Meeting #27
Bath, England, 25th April - 29th April 2005

Tdoc **R5-050698**

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1237 rev - Current version: **5.11.1**

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:	Correction to RAB test case 18.2.2.34.1		
Source:	3GPP TSG RAN WG5 (Testing)		
Work item code:	TEI	Date:	13/04/2005
Category:	F	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:	The order of "Restricted UL TFCIs" for the Sub Test 1 mentioned in 34.123-1 section 18.2.2.34.1.3, is as below: UL_TFC0, UL_TFC1, UL_TFC7, UL_TFC6. However UL_TFC6 should be stated before UL_TFC7.
Summary of change:	Changed the order of "Restricted UL TFCIs" for Sub-test1 as below: UL_TFC0, UL_TFC1, UL_TFC6, UL_TFC7
Consequences if not approved:	Inconsistency will remain between 34.123-1 and TTCN implementation.

Clauses affected:	Section 18.2.2.34.1.3										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td></td> </tr> </table>	Y	N	X		X		X		Other core specifications	
Y	N										
X											
X											
X											
		Test specifications									
		O&M Specifications									
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.

<< START OF MODIFIED SECTION >>

18.2.2.34.1 Interactive or background / UL:384 DL:384 kbps / PS RAB / 10 ms TTI, Physical Configuration 1

18.2.2.34.1.1 Conformance requirement

See 18.2.2.4.1.

18.2.2.34.1.2 Test purpose

Test to verify establishment and data transfer of reference radio bearer configuration as specified in TS 34.108, clause 6.10.3.4.1.34 for the 10 ms TTI, physical configuration 1 case.

18.2.2.34.1.3 Method of test

Uplink TFS:

	TFI	RB5 (384 kbps, 10ms)	DCCH
TFS	TF0, bits	0x336	0x148
	TF1, bits	1x336	1x148
	TF2, bits	2x336	N/A
	TF3, bits	4x336	N/A
	TF4, bits	8x336	N/A
	TF5, bits	12x336	N/A

Uplink TFCS:

TFCI	(RB5, DCCH)
UL_TFC0	(TF0, TF0)
UL_TFC1	(TF1, TF0)
UL_TFC2	(TF2, TF0)
UL_TFC3	(TF3, TF0)
UL_TFC4	(TF4, TF0)
UL_TFC5	(TF5, TF0)
UL_TFC6	(TF0, TF1)
UL_TFC7	(TF1, TF1)
UL_TFC8	(TF2, TF1)
UL_TFC9	(TF3, TF1)
UL_TFC10	(TF4, TF1)
UL_TFC11	(TF5, TF1)

Physical channel parameters

DPCH Uplink	Physical Configuration 1
Midamble	256 chips
Codes and time slots	SF2 x 1 code x 3 time slots
Max. Number of data bits/radio frame	6480 bits
TFCI code word	16 bits
TPC	2 bits
Puncturing Limit	0.48

Downlink TFS:

	TFI	RB5 (384 kbps, 10ms)	DCCH
TFS	TF0, bits	0x336	0x148
	TF1, bits	1x336	1x148
	TF2, bits	2x336	N/A
	TF3, bits	4x336	N/A
	TF4, bits	8x336	N/A
	TF5, bits	12x336	N/A

Downlink TFCS:

TFCI	(RB5, DCCH)
DL_TFC0	(TF0, TF0)
DL_TFC1	(TF1, TF0)
DL_TFC2	(TF2, TF0)
DL_TFC3	(TF3, TF0)
DL_TFC4	(TF4, TF0)
DL_TFC5	(TF5, TF0)
DL_TFC6	(TF0, TF1)
DL_TFC7	(TF1, TF1)
DL_TFC8	(TF2, TF1)
DL_TFC9	(TF3, TF1)
DL_TFC10	(TF4, TF1)
DL_TFC11	(TF5, TF1)

Physical channel parameters

DPCH Downlink	Physical Configuration 1
Midamble	256 chips
Codes and time slots	SF16 x 8 codes x 3 time slots
Max. Number of data bits/radio frame	6608 bits
TFCI code word	16 bits
Puncturing Limit	0.48

Sub-tests:

Sub-test	Downlink TFCs Under test	Uplink TFCs Under test	Implicitly tested	Restricted UL TFCs (note 1)	UL RLC SDU size (bits) (note 2)	Test data size (bits) (note 2)
1	DL_TFC1	UL_TFC1	DL_TFC0, DL_TFC6, UL_TFC0, UL_TFC6	UL_TFC0, UL_TFC1, UL_TFC 7 ₆ , UL_TFC 6 ₇	RB5: 312	RB5: 312
2	DL_TFC2	UL_TFC2	DL_TFC0, DL_TFC6, UL_TFC0, UL_TFC6	UL_TFC0, UL_TFC1, UL_TFC2, UL_TFC6, UL_TFC8	RB5: 632	RB5: 632
3	DL_TFC3	UL_TFC3	DL_TFC0, DL_TFC6, UL_TFC0, UL_TFC6	UL_TFC0, UL_TFC1, UL_TFC3, UL_TFC6, UL_TFC9	RB5: 1272	RB5: 1272
4	DL_TFC4	UL_TFC4	DL_TFC0, DL_TFC6, UL_TFC0, UL_TFC6	UL_TFC0, UL_TFC1, UL_TFC4, UL_TFC6, UL_TFC10	RB5: 2552	RB5: 2552
5	DL_TFC5	UL_TFC5	DL_TFC0, DL_TFC6, UL_TFC0, UL_TFC6	UL_TFC0, UL_TFC1, UL_TFC5, UL_TFC6, UL_TFC11	RB5: 3832	RB5: 3832
NOTE 1: UL_TFC0, UL_TFC1 and UL_TFC6 are part of minimum set of TFCs.						
NOTE 2: See TS 34.109 [10] clause 5.3.2.6.2 for details regarding loopback of RLC SDUs.						

See 18.2.1.1 for test procedure.

18.2.2.34.1.4 Test requirements

See 18.2.1.1 for definition of step 10 and step 15.

1. At step 10 the UE shall send RADIO BEARER SETUP COMPLETE.
2. At step 15 the UE transmitted transport format shall be
 - for sub-test 1: RB5/TF1 (1x336).
 - for sub-test 2: RB5/TF2 (2x336).
 - for sub-test 3: RB5/TF3 (4x336).
 - for sub-test 4: RB5/TF4 (8x336).
 - for sub-test 5: RB5/TF4 (12x336).
3. At step 15 the UE shall return
 - for sub-test 1 to 5: an RLC SDU on RB5 having the same content as the DL RLC SDU sent by the SS.

<< END OF MODIFIED SECTION >>

3GPP TSG-R5#27
Bath, England, 25th April - 29th April 2005

Tdoc R5-050699

CR-Form-v7

CHANGE REQUEST

34.123-1 CR 1238 rev - Current version: 5.11.1

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:	Correct RAB test case 18.2.5.2a Poll_SDU value (TDD)	
Source:	3GPP TSG RAN WG5 (Testing)	
Work item code:	TEI	Date: 13/04/05
Category:	F	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:	The Poll_SDU value in the Specific Message Content for Radio Bearer Setup message is inconsistent with 34.108 clause 9.
Summary of change:	The Poll_SDU value in the Specific Message Content for Radio Bearer Setup message has been changed from 4 to 1.
Consequences if not approved:	The prose will be inconsistent with 34.108.

Clauses affected:	18.2.5.2a									
Other specs affected:	<table border="1"> <thead> <tr> <th>Y</th> <th>N</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other core specifications Test specifications O&M Specifications
Y	N									
<input checked="" type="checkbox"/>	<input type="checkbox"/>									
<input checked="" type="checkbox"/>	<input type="checkbox"/>									
<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Other comments:										

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18.2.5.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

Test to verify establishment and data transfer of reference radio bearer configuration as specified in TS 34.108, clause 6.10.3.4.4.2a.

This radio bearer configuration is tested with three different SYSTEM INFORMATION (BCCH) configurations:

1. The contents of System Information Block type 5 shall be as per the message specific content below.

Two SCCPCHs are used in this SYSTEM INFORMATION configuration. The **first SCCPCH** carries the **PCH** and the **second SCCPCH** carries the **FACH for two Interactive/Background 32 kbps PS RABs** and the **FACH for SRBs on CCCH/ DCCH/ BCCH**.

This configuration is verified in test case 18.2.5.2a.1.

2. The contents of System Information Block type 5 as specified in TS 34.108, clause 6.1.3.

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The **first SCCPCH** carries the **PCH** and both the **second and third SCCPCHs** carry the **FACH for two Interactive/Background 32 kbps PS RABs** and the **FACH for SRBs on CCCH/ DCCH/ BCCH**.

This configuration is verified in test case 18.2.5.2a.2.

3. The contents of System Information Block type 5 and 6 as specified in TS 34.108, clause 6.1.2.

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The **first SCCPCH carries the PCH**. The second SCCPCH carries the **FACH for CTCH** (Cell Broadcast Service) and the **FACH for SRBs on CCCH/ BCCH for idle mode UEs**. The **third SCCPCH carries the FACH for two Interactive/Background 32 kbps PS RABs and the FACH for SRBs on CCCH/ DCCH/ BCCH for connected mode UEs**.

This configuration is verified in test case 18.2.5.2a.3.

Specific Message Content for Radio Bearer Setup message to be used for these test cases:

Use the RADIO BEARER SETUP message as defined in [9] TS 34.108 clause 9, with the following exceptions:

Information Element	Value/remark
- RAB information for setup	
- RAB info	(AM DTCH for PS domain)
- RAB identity	0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	useT315
- RB information to setup	
- RB identity	20
- PDCP Info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- CHOICE SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	41
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBmuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- Logical channel identity	7
- CHOICE RLC size list	Configured
- MAC logical channel priority	8
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	7
- CHOICE RLC size list	Explicit list
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	8
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH

Information Element	Value/remark
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
- RAB identity	0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	useT315
- RB information to setup	
- RB identity	24
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- CHOICE SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	41
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- Logical channel identity	10
- CHOICE RLC size list	Configured
- MAC logical channel priority	8
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	10
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	10
- CHOICE RLC size list	Explicit list
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	8
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH

Information Element	Value/remark
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	10