

**Source:** T1  
**Title:** CR's to TS 34.108 and TS 34.123-1 from T1 e-mail approval for T approval  
**Agenda item:** 5.1.3  
**Document for:** Approval

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This document contains 5 CRs to TS 34.123-1 and TS 34.108. These CRs have been agreed by T1 following the e-mail approval procedure and are put forward to TSG T for approval.

| Spec     | CR  | Rev | Phase | Subject  | Cat | Version - Current | Version -New | Doc-2nd-Level | Workitem | Remarks           |
|----------|-----|-----|-------|--|-----|-------------------|--------------|---------------|----------|-------------------|
| 34.108   | 225 | -   | R99   | Correction to default SIB5 (FDD)   | F   | 3.11.0            | 3.12.0       | T1-030744     | -        |                   |
| 34.108   | 226 | -   | Rel-4 | Correction to default SIB5 (FDD)   | F   | 4.6.0             | 4.7.0        | T1-030745     | TEI      |                   |
| 34.123-1 | 529 | -   | Rel-5 | Correction to clause 8.4.1.2 (Package 2 test case) (revision to T1-030564, T1-030664, T1-030701) | F   | 5.3.0             | 5.4.0        | T1-030738     | TEI      | R99, Rel-4, Rel-5 |
| 34.123-1 | 528 | 1   | Rel-5 | Corrections to Package 1 RRC test cases (clause 8.4) [T1-030557rev1, T1-030682rev1]              | F   | 5.3.0             | 5.4.0        | T1-030889     | TEI      | R99, Rel-4, Rel-5 |
| 34.123-1 | 530 | 1   | Rel-5 | Modifications to Package 1 RRC measurement test cases  | F   | 5.3.0             | 5.4.0        | T1-030890     | TEI      | R99, Rel-4, Rel-5 |

## CHANGE REQUEST

# **TS 34.123-1 CR 529** # rev **-** # Current version: **5.3.0** #

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

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

|                        |   |                 |   |
|------------------------|---|-----------------|---|
| <b>Title:</b>          | # Correction to clause 8.4.1.2 (Package 2 test case) (revision to T1-030564, T1-030664, T1-030701)  |                 |   |
| <b>Source:</b>         | # Panasonic   |                 |   |
| <b>Work item code:</b> | # TEI   | <b>Date:</b>    | # 09/05/2003  |
| <b>Category:</b>       | # <b>F</b>  | <b>Release:</b> | # Rel-5   |
|                        | Use <u>one</u> of the following categories:<br><b>F</b> (correction)<br><b>A</b> (corresponds to a correction in an earlier release)<br><b>B</b> (addition of feature),<br><b>C</b> (functional modification of feature)<br><b>D</b> (editorial modification)<br>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> . |                 | Use <u>one</u> of the following releases:<br>2 (GSM Phase 2)<br>R96 (Release 1996)<br>R97 (Release 1997)<br>R98 (Release 1998)<br>R99 (Release 1999)<br>Rel-4 (Release 4)<br>Rel-5 (Release 5)<br>Rel-6 (Release 6) |

**Reason for change:** # During idle mode to CELL\_DCH transition, UTRAN would usually **NOT** activate compressed mode behaviour immediately using RRC CONNECTION SETUP message. This understanding is based on the consideration that UTRAN is not aware of UE's capability until the reception of RRC CONNECTION SETUP COMPLETE message. Therefore, it is herein proposed to change the content of RRC CONNECTION SETUP message in clause 8.4.1.2.4 such that compressed mode operating parameters are stored for later activation in the UE i.e. "TGPS status flag" IE. A subsequent PHYSICAL CHANNEL RECONFIGURATION message is used to activate the transmission pattern sequence indicated in the RRC CONNECTION SETUP message.

**Changes from T1-030564**

1. In T1-030564, step 1 to 4 are removed. This is not in line with the test case title, whereby transition from idle mode to CELL\_DCH is intended. In this revision of CR, these corrections are undone.
2. Step 7 and 8 of Expected Sequence are not in line with the description in Test Procedure.
3. IE "Filter coefficient" is MD. If the default value 0 is intended for this IE, "Not Present" should be set. This is to better reflect the real network behaviour in handling MD IE, when the default value is intended.
4. IE "CHOICE UL/DL Mode" for compressed mode is set wrongly.
5. Mis-aligned IEs.

### Changes from T1-030701

- IE "TGCFN" is not needed when "TGPS Status Flag" is "Deactivate".
- In step 6, waiting time for measurement report is not mentioned. Specifying a waiting time is necessary to avoid deactivation of compressed mode pattern, when the activation time of the compressed mode pattern is still pending. Currently, such behaviour is unspecified, according to TS25.331 clause 8.6.6.15. Also, some time should be allowed for the UE to detect inter-frequency cell, and perform inter-freq measurement, as specified in TS 25.133.
- In March-02 core spec, if IE "Reporting cell status" is not present in MEASUREMENT CONTROL, "cell measured results" should be omitted in the MEASUREMENT REPORT. However this particular clause is changed in March-03 core spec. IE "Measured Results" should be omitted, instead of "cell measured results". TC 8.4.1.2 is not updated according to the core-spec change.

**Summary of change:** ☞ The following changes are proposed to test case 8.4.1.2:

- Add a reference to TS 25.331 clause 8.6.6.15 ("DPCH compressed mode info" IE).
- Add a conditional statement for the presence of "DPCH compressed mode info" IE in RRC CONNECTION SETUP message.
- Modify the "TGPS status flag" IE to "Deactivate" in RRC CONNECTION SETUP message.
- Add optional test steps 5 and 5a (conditional on UE support for compressed mode operations) to activate stored compressed mode contexts. The specific message contents for corresponding PHYSICAL CHANNEL RECONFIGURATION message are also introduced.
- Add test requirement(s) in relation to step 5 and 5a.

### New changes in T1S030164

- The conformance requirement is updated with respect to TS 25.331 v530.
- Test purpose has been revised so that UE that does not support compressed mode will not receive MEASUREMENT CONTROL message with compressed mode info. In addition, a test purpose has been added to check that UE, which does not support compressed mode, starts to perform inter-frequency measurement and related reporting activities when it receives a MEASUREMENT CONTROL message without IE "DPCH compressed mode status info".
- ~~The initial condition of this test has been revised so that step 1 to 4 can now be removed.~~
- DPCH compressed mode info has been added to PHYSICAL CHANNEL RECONFIGURATION message in step 5 so that this information will not be contained in RRC CONNECTION SETUP message.
- References to Annex A has been changed to clause 9 of TS 34.108.

Test requirement: The time by which UE should activate compressed mode operations should be indicated by TGCFN instead of the activation time.

**Changes from T1-030564**

1. Corrections made to step 1 to 4 in T1-030564 are undone. These changes are made in Initial Condition, Test Procedure, Expected Sequence, and Specific Message Content.
2. Test Procedure is corrected. The word "activating" is deleted.
3. Expected Sequence in step 7 and 8 are revised to indicate that these steps are only applicable to UE that supports compressed mode.
4. IE "Transmission gap pattern sequence configuration parameters " in PHYSICAL CHANNEL RECONFIGURATION (step 5) are set to "Not Present", since the configuration for TGPSI=1 has already been provided in RRC CONNECTION SETUP (step 2).
5. IE "Filter coefficient" is set to "Not Present", which implies the default value 0.
6. In MEASUREMENT CONTROL (step 9), IEs are aligned properly.
7. "UL only" is added to IE "CHOICE UL/DL Mode" in RRC CONNECTION SETUP (step 2).

**Changes from T1-030701**

- IE "TGCFN" is set to "Not Present" in RRC CONNECTION SETUP (step 2).
- In step 6, waiting time of 10s is specified.
- The statement "compressed mode is (not) supported" is changed to "compressed mode is (not) required", where applicable.
- Test purpose is corrected.
- IE "Measured Results" in MEASUREMENT REPORT (step 12) is set to Not Present.

**Consequences if not approved:** ⌘ It is not necessary for to SS activate compressed mode configurations immediately upon entering CELL\_DCH state from idle mode. Such SS configuration is inconsistent with typical UTRAN operations; and would introduce unnecessary complexity during initial establishment of DPCH.

| <b>Clauses affected:</b>     | ⌘ | 8.4.1.2   |   |   |  |   |  |   |  |   |
|------------------------------|---|---|---|---|--|---|--|---|--|---|
| <b>Other specs affected:</b> | ⌘ | <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> Other core specifications ⌘<br>Test specifications<br>O&M Specifications | Y | N |  | X |  | X |  | X |
| Y                            | N |   |   |   |  |   |  |   |  |   |
|                              | X |   |   |   |  |   |  |   |  |   |
|                              | X |   |   |   |  |   |  |   |  |   |
|                              | X |   |   |   |  |   |  |   |  |   |
| <b>Other comments:</b>       | ⌘ | Affects R'99, Rel-4 and Rel-5 UEs.  |   |   |  |   |  |   |  |   |

**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 Modifications>****8.4.1.2 Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL\_DCH state****8.4.1.2.1 Definition****8.4.1.2.2 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-RAT measurement" or "inter-frequency measurement" that require measurements on a frequency other than the actually used frequency: ~~for measurement types "inter frequency measurement":~~
    - 3> if, according to its measurement capabilities, the UE requires compressed mode to perform that measurement type and after reception of this message a compressed mode pattern sequence with an appropriate measurement purpose is active according to the IE "Current TGPS Status Flag" in UE variable TGPS\_IDENTITY; or if, according to its measurement capabilities, the UE requires compressed mode to perform that measurement type and a compressed mode pattern sequence with an appropriate measurement purpose is simultaneously activated by the IE "DPCH compressed mode status info"; or
    - 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 on at least one supported band of that measurement type:
  - 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 intra-frequency, inter-frequency measurement, or inter-RAT measurement, the UE shall:

- 1> for intra-frequency measurement, inter-frequency measurement and inter-RAT measurement:
- 2> exclude the IE "Measured Results" in MEASUREMENT REPORT.

~~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, 8.6.6.15 and 8.6.7.9

8.4.1.2.3 Test Purpose

1. ~~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. ~~2.~~ To confirm that the UE, **which requires compressed mode**, starts to perform inter-frequency measurement and related reporting activities, when it receives a MEASUREMENT CONTROL message with the "DPCH compressed mode status info" IE indicating that a stored compressed mode pattern sequence be simultaneously activated.
3. **To confirm that the UE, which does not require compressed mode, starts to perform inter-frequency measurement and related reporting activities when it receives a MEASUREMENT CONTROL message without IE "DPCH compressed mode status info".**
4. ~~3.~~ To confirm that the UE excludes the IE "**cell-to-measured results**" for any cells in the MEASUREMENT REPORT messages, after it receives a MEASUREMENT CONTROL message with "Reporting cell status" IE omitted.

**Note that this test case is only applicable in case the UE requires compressed mode to perform inter-frequency measurements.**

8.4.1.2.4 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).

Related ICS/IXIT statements

- Compressed mode required      yes/no

Test Procedure

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

**Table 8.4.1.2-1**

| Parameter              | Unit         | Cell 1 | Cell 4 |
|------------------------|--------------|--------|--------|
| UTRA RF Channel Number |              | Ch. 1  | Ch. 2  |
| CPICH Ec               | dBm/3.84 MHz | -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). The RRC CONNECTION SETUP message used in procedure P3 or P5 should contain IE "DPCH compressed mode info", **setting the "TGPS status flag" to "Deactivate" and activating the configuring** transmission pattern gap sequence with TGPSI=1, only if UE requires compressed mode. 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). **An optional PHYSICAL CHANNEL RECONFIGURATION message is transmitted by SS to activate the transmission pattern gap sequence with TGPSI=1, if the UE requires compressed mode to perform inter-frequency measurement. Correspondingly, the UE shall start the compressed mode operations at designated time and respond with PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the UL DCCH.** 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.

If UE requires compressed mode, SS sends PHYSICAL CHANNEL RECONFIGURATION message on the downlink DCCH, specifying that compressed mode sequence pattern with TGPSI=1 be deactivated. The UE shall reply with PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on the uplink DCCH if UE configures according to the PHYSICAL CHANNEL RECONFIGURATION message.

SS sends MEASUREMENT CONTROL message on the downlink DCCH. In this message, SS requests UE to perform inter-frequency measurement with periodic reporting of CPICH RSCP values for cell 4. If UE requires compressed mode, IE "DPCH compressed status info" IE to activate the transmission gap pattern sequence with TGPSI = 1 is included in this message.

The UE shall start inter-frequency measurement and reporting for cell 4's CPICH 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 (if compressed mode is not required by the UE), or PHYSICAL CHANNEL RECONFIGURATION (if compressed mode is required by the UE)          | If compressed mode is not required (refer ICS/IXIT), then goto step 6. Else, activate the compressed mode operation.  |
| 5a   |           | →  | Void (if compressed mode is not required by the UE), or PHYSICAL CHANNEL RECONFIGURATION COMPLETE (if compressed mode is required by the UE) | UE shall remain in CELL_DCH state.  |
| 6    |           |    |  | SS checks to see that no MEASUREMENT REPORT messages are received for 10s.<br>If compressed mode is not required (refer ICS/IXIT), then goto step 9.                  |
| 7    |           | ←  | Void (if compressed mode is not required by the UE), or PHYSICAL CHANNEL RECONFIGURATION (if compressed mode is required by the UE)          | Existing compressed mode sequence pattern is deactivated in this message.   |
| 8    |           | →  | Void (if compressed mode is not required by the UE), or PHYSICAL CHANNEL RECONFIGURATION COMPLETE (if compressed mode is required by the UE) | UE shall remain in CELL_DCH state.  |



|    |   |                     |   |
|----|---|---------------------|---|
| 9  | ← | MEASUREMENT CONTROL | SS requests UE to start inter-frequency measurement for cell 4, and performing periodic reporting for cell 4's CPICH RSCP. See specific message content below.                            |
| 10 | → | MEASUREMENT REPORT  | UE shall report cell 4's CPICH RSCP reading periodically.   |
| 11 | ← | MEASUREMENT CONTROL | SS changes the reporting criteria of cell 4 to 'event 2c'. "Reporting cell status" IE in this message is omitted.   |
| 12 | → | MEASUREMENT REPORT  | SS monitors the uplink DCCH to make sure that only 1 such message is received almost immediately after step 11. This message shall not contain IE "Inter-frequency cell measured results" |
| 13 | ↔ | 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                  | Not used   |
| -Use of HCS   | CPICH Ec/No  |
| -Cell selection and reselection quality measure         | Not present  |
| - Intra-frequency measurement system information        | Not Present  |
| - Intra-frequency measurement identity                  | 1  |
| - Intra-frequency cell info list                        | Not Present  |
| - CHOICE intra-frequency cell removal                   | Not Present  |
| - New intra-frequency cells                             | 1  |
| - Intra-frequency cell id                               | Not Present  |
| - Cell info   | Not Present  |
| - Cell individual offset                                | Not present  |
| - Reference time difference to cell                     | TRUE   |
| - Read SFN indicator                                    | FDD  |
| - CHOICE mode   | Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 of TS 34.108   |
| - Primary CPICH info                                    | Not present  |
| - Primary scrambling code                               | FALSE  |
| - Primary CPICH Tx power                                | Not present  |
| - TX Diversity indicator                                | FALSE  |
| - 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-frequency cell info list                        | Not present  |
| - CHOICE inter-frequency cell removal                   | Not present  |
| - New inter-frequency cells                             | 4  |
| - Inter-frequency cell id                               | FDD  |
| - Frequency info  | Not present  |
| - CHOICE mode   | Reference to table 6.1.2 of TS34.108 for Cell 4  |
| - UARFCN uplink (Nu)                                    | Not Present  |
| - UARFCN downlink (Nd)                                  | Not Present  |
| - Cell info   | Not Present  |
| - Cell individual offset                                | Not Present  |
| - Reference time difference to cell                     | FALSE  |
| - Read SFN Indicator                                    | FDD  |
| - CHOICE mode   | Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4 of TS 34.108   |
| - Primary CPICH Info                                    | Not Present  |
| - Primary Scrambling Code                               | FALSE  |
| - Primary CPICH TX power                                | Not present  |
| - TX Diversity Indicator                                | Not present  |
| - Cell selection and re-selection info                  | 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. |
| -Cells for measurement                                  | Not Present  |
| - Inter-RAT measurement system information              | Not Present  |
| - Traffic volume measurement system information         | Not Present  |

**RRC CONNECTION SETUP (Step 2)**

If UE do not require compressed mode, use the message found in TS 34.108 clause 9.

If UE requires compressed mode, use the message found in TS 34.108 clause 9, with the following exceptions:

| Information Element  | Value/remark  |
|--|---|
| Downlink information common for all radio links              |   |
| - Downlink DPCH info common for all RL                       | Initialise  |
| - Timing Indication  | Not Present   |
| - CFN-targetSFN frame offset                                 |   |
| - Downlink DPCH power control information                    | Single TPC  |
| - DPC mode   | FDD   |
| - CHOICE Mode  | 0   |
| - Power offset $P_{Pilot-DPCH}$                              | Not Present   |
| - DL rate matching restriction information                   | Refer to the parameter set in TS 34.108   |
| - Spreading factor   | Flexible  |
| - Fixed or flexible position                                 | FALSE   |
| - TFCl existence   | Refer to the parameter set in TS 34.108   |
| - Number of bits for Pilot bits (SF=128, 256)                | This IE is present only if the ICS/IXIT statement indicates that compressed mode is required. |
| - DPCH compressed mode info                                  | 1   |
| - TGPSI  | A Deactivate  |
| - TGPS Status Flag   | Not Present (Current CFN + (256 - TTI/10msec)) mod 256  |
| - TGCFN  |   |
| - 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, UL only or DL only depending the on UE capability                                  |
| - Downlink compressed mode method                            | SF/2 (or Not present depending on the UE capability)  |
| - Uplink compressed mode method                              | SF/2 or Not present depending on the UE capability  |
| - Downlink frame type  | B   |
| - DeltaSIR1  | 2.0   |
| - DeltaSIRAfter1   | 1.0   |
| - DeltaSIR2  | Not Present   |
| - DeltaSIR2After2  | 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   |
| Downlink information for each radio link list                |   |
| - Downlink information for each radio link                   |   |
| - CHOICE mode  | FDD   |
| - Primary CPICH info   | Reference to 34.108   |
| - Primary scrambling code                                    | Not Present   |
| - 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 can be used   |
| - DPCH frame offset  | Set to value: Default DPCH Offset value mod 38400   |
| - Secondary CPICH info                                       | Not Present   |
| - DL Channelisation code                                     |   |
| - Secondary scrambling code                                  | 1   |
| - Spreading factor   | Reference to 34.108   |
| - Code number  | 0   |
| - Scrambling code change                                     | No code change  |

|                                      |             |
|--------------------------------------|-------------|
| - TPC combination index              | 0           |
| - SSST Cell identity                 | Not present |
| - Closed loop timing adjustment mode | Not present |
| SCCPCH information for FACH          | Not present |

PHYSICAL CHANNEL RECONFIGURATION (Step 5)

Use the same message sub-type in [Annex A clause 9 of TS 34.108](#) titled "Non speech in CS" or "Speech in CS" or "Packet to CELL\_DCH from CELL\_DCH in PS", with the following exceptions:

| Information Element  | Value/remark  |
|--|---|
| Downlink information common for all radio links              |   |
| - Downlink DPCH info common for all RL                       |   |
| - Timing Indication  | Maintain  |
| - Downlink DPCH power control information                    |   |
| - DPC mode   | 0 (single)  |
| - CHOICE mode  | FDD   |
| - Power offset $P_{Pilot-DPCH}$                              | 0   |
| - DL rate matching restriction information                   | Not Present   |
| - Spreading factor   | Reference to TS34.108 clause 6.10 Parameter Set   |
| - Fixed or Flexible Position                                 | Reference to TS34.108 clause 6.10 Parameter Set   |
| - TFCI existence   | Reference to TS34.108 clause 6.10 Parameter Set   |
| - Number of bits for Pilot bits (SF=128,256)                 | Reference to TS34.108 clause 6.10 Parameter Set   |
| - DPCH compressed mode info                                  | This IE is present only if the ICS/IXIT statement indicates that compressed mode is required. |
| - TGPSI  | 1   |
| - TGPS Status Flag   | Activate  |
| - TGCFN  | (Current CFN + (256 - TTI/10msec))mod 256   |
| - Transmission gap pattern sequence configuration parameters | Not Present   |
| - 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 depending the on UE capability   |
| - Downlink compressed mode method                            | SF/2 (or Not present depending on the UE capability)  |
| - Uplink compressed mode method                              | SF/2 or Not present depending on the UE capability  |
| - Downlink frame type  | B   |
| - DeltaSIR1  | 2-0   |
| - DeltaSIRAfter1   | 1-0   |
| - DeltaSIR2  | Not Present   |
| - DeltaSIR2After2  | 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   |
| Downlink information per radio link list                     | Not Present   |

PHYSICAL CHANNEL RECONFIGURATION (Step 7)

Use the same message sub-type in [clause 9 of TS 34.108 Annex A](#) titled "Non speech in CS" or "Speech in CS" or "Packet to CELL\_DCH from CELL\_DCH in PS", with the following exceptions:

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

|  |   |
|--|---|
| Downlink information common for all radio links              |   |
| - Downlink DPCH info common for all RL                       | Maintain  |
| - Timing Indication  | 0 (single)                                      |
| - Downlink DPCH power control information                    | FDD   |
| - DPC mode   | 0   |
| - CHOICE mode  |   |
| - Power offset $P_{Pilot-DPCH}$                              |   |
| <br>   |   |
| - DL rate matching restriction information                   | Not Present                                     |
| - Spreading factor   | Reference to TS34.108 clause 6.10 Parameter Set |
| <br>   |   |
| - Fixed or Flexible Position                                 | Reference to TS34.108 clause 6.10 Parameter Set |
| <br>   |   |
| - TFCI existence   | Reference to TS34.108 clause 6.10 Parameter Set |
| <br>   |   |
| - Number of bits for Pilot bits (SF=128,256)                 | Reference to TS34.108 clause 6.10 Parameter Set |
| <br>   |   |
| - DPCH compressed mode info                                  |   |
| - Transmission gap pattern sequence                          |   |
| - TGPSI  | 1   |
| - TPGS status Flag   | Deactivate                                      |
| - TGCFN  | Not Present                                     |
| - Transmission gap pattern sequence configuration parameters | Not Present                                     |
| - TX Diversity mode  | None  |
| - SSDT information   | Not Present                                     |
| - Default DPCH Offset Value                                  | 0   |
| Downlink information per radio link list                     | Not Present                                     |

MEASUREMENT CONTROL (Step 9)

If UE requires compressed mode,

| Information Element  | Value/remark   |
|--|--|
| Measurement Identity<br>Measurement Command<br>Measurement Reporting Mode<br>- Measurement Reporting Transfer Mode<br>- Periodical Reporting / Event Trigger Reporting Mode<br>Additional measurements list<br>CHOICE measurement type<br>- Inter-frequency cell info list<br>- CHOICE inter-frequency cell removal<br>- New inter-frequency info list<br>- Inter-frequency cell id<br>- Frequency info<br>- UARFCN uplink (Nu)<br>- UARFCN downlink (Nd)<br>- Cell info<br>- Cell individual offset<br>- Reference time difference to cell<br>- Read SFN Indicator<br>- CHOICE mode<br>- Primary CPICH Info<br>- Primary Scrambling Code<br>- Primary CPICH TX power<br>- TX Diversity Indicator<br>- Cells for measurement<br>- Inter-frequency measurement quantity<br>- CHOICE reporting criteria<br>- Filter Coefficient<br>- Measurement quantity for frequency quality estimate<br>- Inter-frequency reporting quantity<br>- UTRA Carrier RSSI<br>- Frequency quality estimate<br>- Non frequency related cell reporting quantities<br>- Cell synchronisation information reporting<br>indicator<br>- Cell Identity reporting indicator<br>- CPICH Ec/No reporting indicator<br>- CPICH RSCP reporting indicator<br>- Pathloss reporting indicator<br>- Reporting cell status<br>- CHOICE reported cell<br><br>- Maximum number of reported cells<br>- Measurement validity<br>- Inter-frequency set update<br>- CHOICE report criteria<br>- Amount of reporting<br>- Reporting interval<br>DPCH compressed mode status info<br>- TGPS reconfiguration CFN<br>- Transmission gap pattern sequence<br>- TGPSI<br>- TGPS Status Flag<br>- TGCFN | 1<br>Setup<br>Acknowledged Mode RLC<br>Periodical reporting<br>Not Present<br>Inter-frequency measurement<br>No inter-frequency cells removed<br>4<br>UARFCN of the uplink frequency for cell 4<br>UARFCN of the downlink frequency for cell 4<br>0 dB<br>Not Present<br>FALSE<br>FDD<br>Set to same code as used for cell 4<br>Not Present<br>FALSE<br>Not Present<br>Inter-frequency reporting criteria<br>Not Present<br>CPICH RSCP<br>FALSE<br>FALSE<br>FALSE<br>FALSE<br>FALSE<br>FALSE<br>TRUE<br>FALSE<br>Report cell within active and/or monitored set on used frequency or within active and/or monitored set on non-used frequency<br>2<br>Not present<br>Not present<br>Periodic reporting criteria<br>Infinity<br>16 seconds<br>(Current CFN + (256 – TTI/10msec))mod 256<br>1<br>Activate<br>(Current CFN + (256 – TTI/10msec))mod 256 |

If UE do not require compressed mode,

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



MEASUREMENT REPORT (Step 10)

| 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                           |  |
| - UARFCN (uplink)                          | Check to see if set to the UARFCN of the uplink frequency for cell 4   |
| - UARFCN (downlink)                        | Check to see if set to the UARFCN of the downlink 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   |
| - Primary CPICH Info                       |  |
| - Primary Scrambling Code                  | Check to see if set to the same 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                              | Check to see if it is absent   |

MEASUREMENT CONTROL (Step 11)

| Information Element                                   | Value/remark                                   |
|---|--|
| Measurement Identity                                  | 1  |
| Measurement Command                                   | Set up   |
| Measurement Reporting Mode                            | Acknowledged Mode RLC                          |
| - Measurement Reporting Transfer Mode                 | Event Trigger                                  |
| - Periodic Reporting / Event Trigger Reporting Mode   | Not Present                                    |
| Additional measurements list                          | Inter-frequency measurement                    |
| CHOICE measurement type                               | No inter-frequency cells removed               |
| - Inter-frequency cell info list                      | 4  |
| - CHOICE inter-frequency cell removal                 | UARFCN of the uplink frequency for cell 4      |
| - New inter-frequency info list                       | UARFCN of the downlink frequency for cell 4    |
| - Inter-frequency cell id                             | 0 dB   |
| - Frequency info                                      | Not Present                                    |
| - UARFCN uplink (Nu)                                  | FALSE  |
| - UARFCN downlink (Nd)                                | FDD  |
| - Cell info   | Set to same code as used for cell 4            |
| - Cell individual offset                              | Not Present                                    |
| - Reference time difference to cell                   | FALSE  |
| - Read SFN Indicator                                  | CHOICE mode                                    |
| - CHOICE mode   | FDD  |
| - Primary CPICH Info                                  | Set to same code as used for cell 4            |
| - Primary Scrambling Code                             | Not Present                                    |
| - Primary CPICH TX power                              | FALSE  |
| - TX Diversity Indicator                              | Not Present                                    |
| - Cells for measurement                               | Not Present                                    |
| - Inter-frequency measurement quantity                | Inter-frequency reporting criteria             |
| - CHOICE reporting criteria                           | Not Present                                    |
| - Filter Coefficient                                  | CPICH RSCP                                     |
| - Measurement quantity for frequency quality estimate |  |
| - Inter-frequency reporting quantity                  | FALSE  |
| - 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  |
| - CPICH Ec/No reporting indicator                     | FALSE  |
| - CPICH RSCP reporting indicator                      | TRUE   |
| - Pathloss reporting indicator                        | FALSE  |
| - Reporting cell status                               | Not Present                                    |
| - Measurement validity                                | Not present                                    |
| - Inter-frequency set update                          | On with no reporting                           |
| -UE Autonomous update mode                            | Not Present                                    |
| -Non autonomous update mode                           | Inter-frequency measurement reporting criteria |
| - CHOICE report criteria                              |  |
| - Parameters required for each event                  | 2c   |
| - Inter-frequency event identity                      | Not Present                                    |
| - 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 12)

| Information Element                                 | Value/remark  |
|---|---|
| Measurement identity                                | Check to see if set to 1  |
| <del>Measured Results</del>                         | <del>Check to see if it is absent</del>   |
| <del>CHOICE measurement</del>                       | <del>Check to see if set to "Inter-frequency measurement results list"</del>      |
| <del>- Inter-frequency measurement results</del>    |   |
| <del>- Frequency info</del>                         |   |
| <del>- UARFCN (uplink)</del>                        | <del>Check to see if set to the UARFCN of the uplink frequency for cell 4</del>   |
| <del>- UARFCN (downlink)</del>                      | <del>Check to see if set to the UARFCN of the downlink frequency for cell 4</del> |
| <del>- UTRA carrier RSSI</del>                      | <del>Check to see if it is absent</del>   |
| <del>Inter-frequency cell measurement results</del> | <del>Check to see if it is absent</del>   |
| 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 result                               | Check to see if this IE is set to "Intra-frequency measurement event results"     |
| - Inter-frequency event identity                    | Check to see if this IE is set to "2c"  |
| - Inter-frequency cells                             |   |
| - Frequency info                                    |   |
| - UARFCN (uplink)                                   | Check to see if set to the UARFCN of the uplink frequency for cell 4              |
| - UARFCN (downlink)                                 | Check to see if set to the UARFCN of the downlink frequency for cell 4            |
| - Non frequency related measurement event results   |   |
| - CHOICE Mode                                       | Check to see if set to "FDD"  |
| - Primary CPICH info                                |   |
| - Primary Scrambling Code                           | Check to see if set to the same code as cell 4                                    |

8.4.1.2.5 Test Requirement

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

If UE ~~requires~~ compressed mode operation, after step 5, UE shall activate compressed mode operations at the ~~time~~ indicated by IE "TGCN" ~~activation time~~ and then transmit PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on uplink DCCH using AM RLC.

If UE requires compressed mode, after step 7, UE shall transmit PHYSICAL CHANNEL RECONFIGURATION COMPLETE message on uplink DCCH using AM RLC.

After step 9 the UE shall transmit MEASUREMENT REPORT messages on uplink DCCH, reporting cell 4's CPICH RSCP value at periodic time interval of 16 seconds in "inter-frequency cell measurement results" IE.

After step 11 the UE shall transmit only 1 MEASUREMENT REPORT message on the uplink DCCH. In this message, IE "~~inter-frequency cell m~~Measured ~~r~~Results" shall be absent.

<End of Modifications>

3GPP TSG- T1 Meeting #19  
 Seoul, Korea, 12<sup>th</sup>-16<sup>th</sup> May 2003

|  |
|--|
| CR-Form-v7   |
| <b>CHANGE REQUEST</b>  |
| # <b>34.108 CR 225</b> # rev <b>-</b> # Current version: <b>3.11.0</b> # |

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

|                        |   |
|------------------------|---|
| <b>Title:</b>          | # Correction to default SIB5 (FDD) (Revision to T1-030661, T1-030679 and T1-030733)   |
| <b>Source:</b>         | # Anite Telecoms, Ericsson  |
| <b>Work item code:</b> | # TEI <span style="float: right;"><b>Date:</b> # 28/05/2003</span>  |
| <b>Category:</b>       | # <b>F</b> <span style="float: right;"><b>Release:</b> # R99</span><br>Use <u>one</u> of the following categories: <span style="float: right;">Use <u>one</u> of the following releases:</span><br><b>F</b> (correction) <span style="float: right;">2 (GSM Phase 2)</span><br><b>A</b> (corresponds to a correction in an earlier release) <span style="float: right;">R96 (Release 1996)</span><br><b>B</b> (addition of feature), <span style="float: right;">R97 (Release 1997)</span><br><b>C</b> (functional modification of feature) <span style="float: right;">R98 (Release 1998)</span><br><b>D</b> (editorial modification) <span style="float: right;">R99 (Release 1999)</span><br>Detailed explanations of the above categories can <span style="float: right;">Rel-4 (Release 4)</span><br>be found in 3GPP <a href="#">TR 21.900</a> . <span style="float: right;">Rel-5 (Release 5)</span><br><span style="float: right;">Rel-6 (Release 6)</span> |

|                                      |   |
|--------------------------------------|---|
| <b>Reason for change:</b>            | # Mandatory Default elements are missing from SIB5  |
| <b>Summary of change:</b>            | # SIB 5 missing mandatory elements are added (with comment about default value)<br><br>Note on T1-030744: The other changes proposed in earlier versions of this CR have been withdrawn by agreement. |
| <b>Consequences if not approved:</b> | # Default SIB5 message contents are incorrect.  |

|                              |   |                           |   |                           |   |  |  |                     |   |  |  |                    |   |
|------------------------------|---|---------------------------|---|---------------------------|---|--|--|---------------------|---|--|--|--------------------|---|
| <b>Clauses affected:</b>     | # 6.1.0.b   |                           |   |                           |   |  |  |                     |   |  |  |                    |   |
| <b>Other specs affected:</b> | <table style="border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;">Y</td> <td style="border: 1px solid black; padding: 2px; text-align: center;">N</td> <td style="padding: 2px;">Other core specifications</td> <td style="padding: 2px;">#</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;"> </td> <td style="border: 1px solid black; padding: 2px; text-align: center;"> </td> <td style="padding: 2px;">Test specifications</td> <td style="padding: 2px;">#</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;"> </td> <td style="border: 1px solid black; padding: 2px; text-align: center;"> </td> <td style="padding: 2px;">O&amp;M Specifications</td> <td style="padding: 2px;">#</td> </tr> </table> | Y                         | N | Other core specifications | # |  |  | Test specifications | # |  |  | O&M Specifications | # |
| Y                            | N   | Other core specifications | # |                           |   |  |  |                     |   |  |  |                    |   |
|                              |   | Test specifications       | # |                           |   |  |  |                     |   |  |  |                    |   |
|                              |   | O&M Specifications        | # |                           |   |  |  |                     |   |  |  |                    |   |
| <b>Other comments:</b>       | #   |                           |   |                           |   |  |  |                     |   |  |  |                    |   |

**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.

## Contents of System Information Block type 5 (FDD)

|   |                           |
|---|---------------------------|
| - SIB6 indicator                            | TRUE                      |
| - PICH Power offset                         | -5 dB                     |
| - CHOICE Mode                               | FDD                       |
| - AICH Power offset                         | 5 dB                      |
| - Primary CCPCH info                        | Not present               |
| - PRACH system information list             |                           |
| - PRACH system information                  |                           |
| - PRACH info                                |                           |
| - CHOICE mode                               | FDD                       |
| - Available Signature                       | '0000 0000 1111 1111'B    |
| - Available SF                              | 64                        |
| - Preamble scrambling code number           | 0                         |
| - Puncturing Limit                          | 1.00                      |
| - Available Sub Channel number              | '1111 1111 1111'B         |
| - Transport Channel Identity                | 15                        |
| - RACH TFS                                  |                           |
| - CHOICE Transport channel type             | Common transport channels |
| - Dynamic Transport format information      |                           |
| - RLC size                                  | 168                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 1                         |
| - CHOICE Mode                               | FDD                       |
| - CHOICE Logical Channel List               | Configured                |
| - RLC size                                  | 360                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 1                         |
| - CHOICE Mode                               | FDD                       |
| - CHOICE Logical Channel List               | Configured                |
| - Semi-static Transport Format information  |                           |
| - Transmission time interval                | 20 ms                     |
| - Type of channel coding                    | Convolutional             |
| - Coding Rate                               | $\frac{1}{2}$             |
| - Rate matching attribute                   | 150                       |
| - CRC size                                  | 16                        |
| - RACH TFCS                                 |                           |
| - CHOICE TFCI signalling                    | Normal                    |
| - TFCI Field 1 information                  |                           |
| - CHOICE TFCS representation                | Complete reconfiguration  |
| - TFCS complete reconfiguration information |                           |
| - CHOICE CTFC Size                          | 2 bit                     |
| - CTFC information                          | 0                         |
| - Power offset information                  |                           |
| - CHOICE Gain Factors                       | Computed Gain Factor      |
| - Reference TFC ID                          | 0                         |
| - CHOICE Mode                               | FDD                       |
| - Power offset Pp-m                         | 0 dB                      |
| - CTFC information                          | 1                         |
| - Power offset information                  |                           |
| - CHOICE Gain Factors                       | Signalled Gain Factor     |
| - CHOICE mode                               | FDD                       |
| - Gain factor $\beta_c$                     | 11                        |
| - Gain factor $\beta_d$                     | 15                        |
| - Reference TFC ID                          | 0                         |
| - CHOICE Mode                               | FDD                       |
| - Power offset Pp-m                         | 0 dB                      |
| - PRACH partitioning                        |                           |
| - Access Service Class                      |                           |
| - ASC Setting                               | Not Present               |
| - ASC Setting                               |                           |
| - CHOICE mode                               | FDD                       |
| - Available signature Start Index           | 0 (ASC#1)                 |
| - Available signature End Index             | 7 (ASC#1)                 |
| - Assigned Sub-channel Number               | '1111'B                   |
| - ASC Setting                               | Not Present               |
| - ASC Setting                               |                           |
| - CHOICE mode                               | FDD                       |

|   |   |
|---|---|
| - Available signature Start Index           | 0 (ASC#3)   |
| - Available signature End Index             | 7 (ASC#3)   |
| - Assigned Sub-channel Number               | '1111'B   |
| - ASC Setting                               | Not Present   |
| - ASC Setting                               |   |
| - CHOICE mode                               | FDD   |
| - Available signature Start Index           | 0 (ASC#5)   |
| - Available signature End Index             | 7 (ASC#5)   |
| - Assigned Sub-channel Number               | '1111'B   |
| - ASC Setting                               | Not Present   |
| - ASC Setting                               |   |
| - CHOICE mode                               | FDD   |
| - Available signature Start Index           | 0 (ASC#7)   |
| - Available signature End Index             | 7 (ASC#7)   |
| - Assigned Sub-channel Number               | '1111'B   |
| - Persistence scaling factor                |   |
| - Persistence scaling factor                | 0.9 (for ASC#2)   |
| - Persistence scaling factor                | 0.9 (for ASC#3)   |
| - Persistence scaling factor                | 0.9 (for ASC#4)   |
| - Persistence scaling factor                | 0.9 (for ASC#5)   |
| - Persistence scaling factor                | 0.9 (for ASC#6)   |
| - Persistence scaling factor                | 0.9 (for ASC#7)   |
| - AC-to-ASC mapping table                   |   |
| - AC-to-ASC mapping                         | 6 (AC0-9)   |
| - AC-to-ASC mapping                         | 5 (AC10)  |
| - AC-to-ASC mapping                         | 4 (AC11)  |
| - AC-to-ASC mapping                         | 3 (AC12)  |
| - AC-to-ASC mapping                         | 2 (AC13)  |
| - AC-to-ASC mapping                         | 1 (AC14)  |
| - AC-to-ASC mapping                         | 0 (AC15)  |
| - CHOICE mode                               | FDD   |
| - Primary CPICH TX power                    | 31  |
| - Constant value                            | -10   |
| - PRACH power offset                        |   |
| - Power Ramp Step                           | 3dB   |
| - Preamble Retrans Max                      | 4   |
| - RACH transmission parameters              |   |
| - Mmax                                      | 2   |
| - NB01min                                   | 3 slot  |
| - NB01max                                   | 10 slot   |
| - AICH info                                 |   |
| - Channelisation code                       | 3   |
| - STTD indicator                            | FALSE   |
| - AICH transmission timing                  | 0   |
| - Secondary CCPCH system information        |   |
| - Secondary CCPCH info                      |   |
| - CHOICE mode                               | FDD   |
| - Secondary scrambling code                 | Not Present   |
| - STTD indicator                            | FALSE   |
| - Spreading factor                          | 64  |
| - Code number                               | 1   |
| - Pilot symbol existence                    | FALSE   |
| - TFCI existence                            | <del>Not Present</del><br>Absence of this IE is equivalent to default value<br>"TRUE"TRUE (default value)         |
| - Fixed or Flexible position                | <del>Not Present</del><br>Absence of this IE is equivalent to default value<br>"Flexible"Flexible (default value) |
| - Timing offset                             | Not Present   |
| - TFCS                                      | Absence of this IE is equivalent to default value 0<br>(This IE is repeated for TFC number for PCH and FACH.)     |
| - CHOICE TFCI signalling                    | Normal  |
| - TFCI Field 1 information                  |   |
| - CHOICE TFCS representation                | Complete reconfiguration  |
| - TFCS complete reconfiguration information |   |
| - CHOICE CTFC Size                          | 4 bit   |
| - CTFC information                          | 0   |
| - Power offset information                  | Not Present   |
| - CTFC information                          | 1   |

|  |                           |
|--|---------------------------|
| - Power offset information                 | Not Present               |
| - CTFC information                         | 2                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 3                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 4                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 5                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 6                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 8                         |
| - Power offset information                 | Not Present               |
| - FACH/PCH information                     |                           |
| - TFS                                      | (PCH)                     |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     |                           |
| - RLC Size                                 | 240                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - CHOICE Logical Channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Convolutional             |
| - Coding Rate                              | $\frac{1}{2}$             |
| - Rate matching attribute                  | 230                       |
| - CRC size                                 | 16 bit                    |
| - Transport Channel Identity               | 12 (for PCH)              |
| - CTCH indicator                           | FALSE                     |
| - TFS                                      | (FACH)                    |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     |                           |
| - RLC Size                                 | 168                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - Number of Transport blocks               | 2                         |
| - CHOICE Logical Channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Convolutional             |
| - Coding Rate                              | $\frac{1}{2}$             |
| - Rate matching attribute                  | 220                       |
| - CRC size                                 | 16 bit                    |
| - Transport Channel Identity               | 13 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - TFS                                      | (FACH)                    |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     |                           |
| - RLC Size                                 | 360                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - CHOICE Logical Channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Turbo                     |
| - Rate matching attribute                  | 130                       |
| - CRC size                                 | 16bit                     |
| - Transport Channel Identity               | 14 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - PICH info                                |                           |
| - CHOICE mode                              | FDD                       |
| - Channelisation code                      | 2                         |
| - Number of PI per frame                   | 18                        |
| - STTD indicator                           | FALSE                     |
| - CBS DRX Level 1 information              | Not Present               |





3GPP TSG- T1 Meeting #19  
 Seoul, Korea, 12<sup>th</sup>-16<sup>th</sup> May 2003

|   |
|---|
| CR-Form-v7  |
| <b>CHANGE REQUEST</b>   |
| ⌘ <b>34.108 CR 226</b> ⌘ rev <b>-</b> ⌘ Current version: <b>4.6.0</b> ⌘ |

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

|                        |   |                 |   |
|------------------------|---|-----------------|---|
| <b>Title:</b>          | ⌘ Correction to default SIB5 (FDD) (Revision to T1-030662, T1-030680 and T1-030745)   |                 |   |
| <b>Source:</b>         | ⌘ Anite Telecoms, Ericsson  |                 |   |
| <b>Work item code:</b> | ⌘ TEI   | <b>Date:</b>    | ⌘ 28/05/2003  |
| <b>Category:</b>       | ⌘ <b>F</b>  | <b>Release:</b> | ⌘ Rel-4   |
|                        | Use <u>one</u> of the following categories:<br><b>F</b> (correction)<br><b>A</b> (corresponds to a correction in an earlier release)<br><b>B</b> (addition of feature),<br><b>C</b> (functional modification of feature)<br><b>D</b> (editorial modification)<br>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> . |                 | Use <u>one</u> of the following releases:<br>2 (GSM Phase 2)<br>R96 (Release 1996)<br>R97 (Release 1997)<br>R98 (Release 1998)<br>R99 (Release 1999)<br>Rel-4 (Release 4)<br>Rel-5 (Release 5)<br>Rel-6 (Release 6) |

|                                      |  |
|--------------------------------------|--|
| <b>Reason for change:</b>            | ⌘ Mandatory elements are missing from SIB5   |
| <b>Summary of change:</b>            | ⌘ SIB 5 missing mandatory ASN elements are added<br><br>Note on T1-030745: The other changes proposed in earlier versions of this CR have been withdrawn by agreement. |
| <b>Consequences if not approved:</b> | ⌘ Default SIB5 message contents are incorrect.   |

|                              |   |   |   |  |  |  |  |
|------------------------------|---|---|---|--|--|--|--|
| <b>Clauses affected:</b>     | ⌘ 6.1.0.b   |   |   |  |  |  |  |
| <b>Other specs affected:</b> | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="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 ⌘<br>Test specifications ⌘<br>O&M Specifications ⌘ | Y | N |  |  |  |  |
| Y                            | N   |   |   |  |  |  |  |
|                              |   |   |   |  |  |  |  |
|                              |   |   |   |  |  |  |  |
| <b>Other comments:</b>       | ⌘   |   |   |  |  |  |  |

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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.

- 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.

## Contents of System Information Block type 5 (FDD)

|   |                           |
|---|---------------------------|
| - SIB6 indicator                            | TRUE                      |
| - PICH Power offset                         | -5 dB                     |
| - CHOICE Mode                               | FDD                       |
| - AICH Power offset                         | 5 dB                      |
| - Primary CCPCH info                        | Not present               |
| - PRACH system information list             |                           |
| - PRACH system information                  |                           |
| - PRACH info                                |                           |
| - CHOICE mode                               | FDD                       |
| - Available Signature                       | '0000 0000 1111 1111'B    |
| - Available SF                              | 64                        |
| - Preamble scrambling code number           | 0                         |
| - Puncturing Limit                          | 1.00                      |
| - Available Sub Channel number              | '1111 1111 1111'B         |
| - Transport Channel Identity                | 15                        |
| - RACH TFS                                  |                           |
| - CHOICE Transport channel type             | Common transport channels |
| - Dynamic Transport format information      |                           |
| - RLC size                                  | 168                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 1                         |
| - CHOICE Mode                               | FDD                       |
| - CHOICE Logical Channel List               | Configured                |
| - RLC size                                  | 360                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 1                         |
| - CHOICE Mode                               | FDD                       |
| - CHOICE Logical Channel List               | Configured                |
| - Semi-static Transport Format information  |                           |
| - Transmission time interval                | 20 ms                     |
| - Type of channel coding                    | Convolutional             |
| - Coding Rate                               | 1/2                       |
| - Rate matching attribute                   | 150                       |
| - CRC size                                  | 16                        |
| - RACH TFCS                                 |                           |
| - CHOICE TFCI signalling                    | Normal                    |
| - TFCI Field 1 information                  |                           |
| - CHOICE TFCS representation                | Complete reconfiguration  |
| - TFCS complete reconfiguration information |                           |
| - CHOICE CTFC Size                          | 2 bit                     |
| - CTFC information                          | 0                         |
| - Power offset information                  |                           |
| - CHOICE Gain Factors                       | Computed Gain Factor      |
| - Reference TFC ID                          | 0                         |
| - CHOICE Mode                               | FDD                       |
| - Power offset Pp-m                         | 0 dB                      |
| - CTFC information                          | 1                         |
| - Power offset information                  |                           |
| - CHOICE Gain Factors                       | Signalled Gain Factor     |
| - CHOICE mode                               | FDD                       |
| - Gain factor $\beta_c$                     | 11                        |
| - Gain factor $\beta_d$                     | 15                        |
| - Reference TFC ID                          | 0                         |
| - CHOICE Mode                               | FDD                       |
| - Power offset Pp-m                         | 0 dB                      |
| - PRACH partitioning                        |                           |
| - Access Service Class                      |                           |
| - ASC Setting                               | Not Present               |
| - ASC Setting                               |                           |
| - CHOICE mode                               | FDD                       |
| - Available signature Start Index           | 0 (ASC#1)                 |
| - Available signature End Index             | 7 (ASC#1)                 |
| - Assigned Sub-channel Number               | '1111'B                   |
| - ASC Setting                               | Not Present               |
| - ASC Setting                               |                           |
| - CHOICE mode                               | FDD                       |

|   |   |
|---|---|
| - Available signature Start Index           | 0 (ASC#3)   |
| - Available signature End Index             | 7 (ASC#3)   |
| - Assigned Sub-channel Number               | '1111'B   |
| - ASC Setting                               | Not Present   |
| - ASC Setting                               |   |
| - CHOICE mode                               | FDD   |
| - Available signature Start Index           | 0 (ASC#5)   |
| - Available signature End Index             | 7 (ASC#5)   |
| - Assigned Sub-channel Number               | '1111'B   |
| - ASC Setting                               | Not Present   |
| - ASC Setting                               |   |
| - CHOICE mode                               | FDD   |
| - Available signature Start Index           | 0 (ASC#7)   |
| - Available signature End Index             | 7 (ASC#7)   |
| - Assigned Sub-channel Number               | '1111'B   |
| - Persistence scaling factor                |   |
| - Persistence scaling factor                | 0.9 (for ASC#2)   |
| - Persistence scaling factor                | 0.9 (for ASC#3)   |
| - Persistence scaling factor                | 0.9 (for ASC#4)   |
| - Persistence scaling factor                | 0.9 (for ASC#5)   |
| - Persistence scaling factor                | 0.9 (for ASC#6)   |
| - Persistence scaling factor                | 0.9 (for ASC#7)   |
| - AC-to-ASC mapping table                   |   |
| - AC-to-ASC mapping                         | 6 (AC0-9)   |
| - AC-to-ASC mapping                         | 5 (AC10)  |
| - AC-to-ASC mapping                         | 4 (AC11)  |
| - AC-to-ASC mapping                         | 3 (AC12)  |
| - AC-to-ASC mapping                         | 2 (AC13)  |
| - AC-to-ASC mapping                         | 1 (AC14)  |
| - AC-to-ASC mapping                         | 0 (AC15)  |
| - CHOICE mode                               | FDD   |
| - Primary CPICH TX power                    | 31  |
| - Constant value                            | -10   |
| - PRACH power offset                        |   |
| - Power Ramp Step                           | 3dB   |
| - Preamble Retrans Max                      | 4   |
| - RACH transmission parameters              |   |
| - Mmax                                      | 2   |
| - NB01min                                   | 3 slot  |
| - NB01max                                   | 10 slot   |
| - AICH info                                 |   |
| - Channelisation code                       | 3   |
| - STTD indicator                            | FALSE   |
| - AICH transmission timing                  | 0   |
| - Secondary CCPCH system information        |   |
| - Secondary CCPCH info                      |   |
| - CHOICE mode                               | FDD   |
| - Secondary scrambling code                 | Not Present   |
| - STTD indicator                            | FALSE   |
| - Spreading factor                          | 64  |
| - Code number                               | 1   |
| - Pilot symbol existence                    | FALSE   |
| - TFCI existence                            | <del>Not Present</del><br>Absence of this IE is equivalent to default value<br>" <del>TRUE</del> " <a href="#">TRUE (default value)</a>         |
| - Fixed or Flexible position                | <del>Not Present</del><br>Absence of this IE is equivalent to default value<br>" <del>Flexible</del> " <a href="#">Flexible (default value)</a> |
| - Timing offset                             | Not Present   |
| - TFCS                                      | Absence of this IE is equivalent to default value 0<br>(This IE is repeated for TFC number for PCH and FACH.)                                   |
| - CHOICE TFCS signalling                    | Normal  |
| - TFCS Field 1 information                  |   |
| - CHOICE TFCS representation                | Complete reconfiguration  |
| - TFCS complete reconfiguration information |   |
| - CHOICE CTFC Size                          | 4 bit   |
| - CTFC information                          | 0   |
| - Power offset information                  | Not Present   |
| - CTFC information                          | 1   |

|  |                           |
|--|---------------------------|
| - Power offset information                 | Not Present               |
| - CTFC information                         | 2                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 3                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 4                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 5                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 6                         |
| - Power offset information                 | Not Present               |
| - CTFC information                         | 8                         |
| - Power offset information                 | Not Present               |
| - FACH/PCH information                     |                           |
| - TFS                                      | (PCH)                     |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     |                           |
| - RLC Size                                 | 240                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - CHOICE Logical Channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Convolutional             |
| - Coding Rate                              | 1/2                       |
| - Rate matching attribute                  | 230                       |
| - CRC size                                 | 16 bit                    |
| - Transport Channel Identity               | 12 (for PCH)              |
| - CTCH indicator                           | FALSE                     |
| - TFS                                      | (FACH)                    |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     |                           |
| - RLC Size                                 | 168                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - Number of Transport blocks               | 2                         |
| - CHOICE Logical Channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Convolutional             |
| - Coding Rate                              | 1/2                       |
| - Rate matching attribute                  | 220                       |
| - CRC size                                 | 16 bit                    |
| - Transport Channel Identity               | 13 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - TFS                                      | (FACH)                    |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     |                           |
| - RLC Size                                 | 360                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - CHOICE Logical Channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Turbo                     |
| - Rate matching attribute                  | 130                       |
| - CRC size                                 | 16bit                     |
| - Transport Channel Identity               | 14 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - PICH info                                |                           |
| - CHOICE mode                              | FDD                       |
| - Channelisation code                      | 2                         |
| - Number of PI per frame                   | 18                        |
| - STTD indicator                           | FALSE                     |
| - CBS DRX Level 1 information              | Not Present               |



## CHANGE REQUEST

# **TS 34.123-1 CR 528** # rev **1** # Current version: **5.3.0** #

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

|                        |   |                 |   |
|------------------------|---|-----------------|---|
| <b>Title:</b>          | # Corrections to Package 1 RRC test cases (clause 8.4) [T1-030557rev1, T1-030682rev1, T1-030737rev1]  |                 |   |
| <b>Source:</b>         | # Panasonic, Anite Telecoms   |                 |   |
| <b>Work item code:</b> | # TEI   | <b>Date:</b>    | # 12/05/2003  |
| <b>Category:</b>       | # <b>F</b>  | <b>Release:</b> | # Rel-5   |
|                        | Use <u>one</u> of the following categories:<br><b>F</b> (correction)<br><b>A</b> (corresponds to a correction in an earlier release)<br><b>B</b> (addition of feature),<br><b>C</b> (functional modification of feature)<br><b>D</b> (editorial modification)<br>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> . |                 | Use <u>one</u> of the following releases:<br>2 (GSM Phase 2)<br>R96 (Release 1996)<br>R97 (Release 1997)<br>R98 (Release 1998)<br>R99 (Release 1999)<br>Rel-4 (Release 4)<br>Rel-5 (Release 5)<br>Rel-6 (Release 6) |

|                             |  |
|-----------------------------|--|
| <b>Reason for change:</b> # | <ol style="list-style-type: none"> <li>1. In T1/SIG #27 meeting, TC 8.4.1.1 was corrected because “it is not necessary to provide the cell info of the serving cell in the MEASUREMENT CONTROL message”. However, such corrections were not completed.</li> <li>2. Editorial mistakes.</li> </ol> <p><b>Corrections from Anite's T1-030571</b></p> <p>In TC 8.4.1.5, the current value of the IE “reporting range constant” for event 1a defined in SIB 12 exceeds the maximum value allowed.</p> <p><b>New corrections:</b></p> <ol style="list-style-type: none"> <li>1. IEs are named incorrectly.</li> <li>2. Missing IEs.</li> <li>3. Mis-aligned IEs.</li> <li>4. In T1-030557, conditional IEs are removed. However, it is agreed that conditional IEs should be showned, but set to Not Present. This removal is undone in this revision.</li> </ol> <p><b>Changes to T1-030682</b></p> <ol style="list-style-type: none"> <li>1. In TC 8.4.1.1, conformance requirement is incomplete.</li> </ol> |
|-----------------------------|--|



2. In TC 8.4.1.1, cell 1 shall be reported in MEASUREMENT REPORT (step 6, 6a).
3. In TC 8.4.1.1, cell 1 shall not be reported in MEASUREMENT REPORT (step 10, 10b). This is due to the reception of MEASUREMENT CONTROL message, with IE "CHOICE intra-frequency cell removal" set to "Remove all intra-frequency cells".
4. In TC 8.4.1.5, the IE "Maximum number of reported cells" is proposed to be changed. This is to make the number of cells reported in step 15 deterministic.

#### Changes to T1-030737

1. In TC 8.4.1.5, it is mentioned in the Expected Sequence at step 5, that CPICH RSCP shall be reported for both active cells and monitored set cells. However, message content of MEASUREMENT CONTROL (step 5) is not consistent with this statement.

#### Summary of change: ⌘

1. TC 8.4.1.1
  - In MEASUREMENT CONTROL message of step 12, the serving cell info is removed.
  - ~~Conditional IEs that are not required by the measurement event in MEASUREMENT CONTROL message (step 7 and 12) have been removed.~~
  - Editorial corrections.
2. TC 8.4.1.5
  - Specific Message Content of MIB defined in Method of Test is removed because it is similar to the default message.
  - In SIB 11 (step 9), primary scrambling code of cell 2 is referred for Intra-freq cell id 2.
  - In SIB 12 (step 9), missing IEs are added.
  - IE "Read SFN Indicator" is set to TRUE for neighbouring cell in order to align with the default SIB 11 definition in TS 34.108. However this modification will have no impact on the test purpose.

#### Corrections from Anite's T1-030571

1. TC 8.4.1.5
  - IE "reporting range constant" is set to a valid value.

#### New corrections:

2. TC 8.4.1.1
  - IEs are renamed correctly.
  - Missing IEs are added.
  - IEs are aligned properly.
  - Conditional IEs are shown. Previous removal of conditional IEs are undone, and highlighted in cyan.

#### Changes to T1-030682

1. TC 8.4.1.1
  - Conformance Requirement and Reference are updated.
  - Cell 1 is added in MEASUREMENT REPORT (step 6, 6a).
  - Cell 1 is removed from MEASUREMENT REPORT (step 10, 10b).
  - In MEASUREMENT REPORT (step 6 and 6a), IE "Pathloss" shall be omitted. Refer to SIB 11 (step 1) for reporting quantities indicator for monitored set cell.

- 2. TC 8.4.1.5
  - IE "Maximum number of reported cells" is changed from 3 to 2. Consequently, only cell 1 and 3 shall be reported in MEASUREMENT REPORT (step 15).

**Changes to T1-030737**

- 1. TC 8.4.1.5
  - In MEASUREMENT CONTROL (step 5), IE "CPICH RSCP reporting indicator" is set to TRUE for active set cells.
  - In MEASUREMENT REPORT (step 6), "CPICH RSCP" for cell 1 is checked to see if it is present.

**Consequences if not approved:** ⌘ This test case could fail good UE.

**Clauses affected:** ⌘ 8.4.1.1, 8.4.1.5

|                              | Y | N |                           | ⌘ |
|------------------------------|---|---|---------------------------|---|
| <b>Other specs affected:</b> |   | X | Other core specifications |   |
|                              |   | X | Test specifications       |   |
|                              |   | X | O&M Specifications        |   |

**Other comments:** ⌘ Affects R'99, Rel-4 and Rel-5 UEs.

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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 Modifications>****8.4.1.1 Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL\_DCH state (FDD)****8.4.1.1.1 Definition****8.4.1.1.2 Conformance requirement**

Upon transition from idle mode to CELL\_DCH state, the UE shall:

- 1> begin or continue monitoring the list of cells assigned in the IE "intra-frequency cell info list" in System Information Block type 12 (or System Information Block type 11, according to subclause 8.1.1.6.11);
- 1> if the "intra-frequency measurement reporting criteria" IE was included in System Information Block type 12 (or System Information Block type 11, according to subclause 8.1.1.6.11):
  - 2> begin measurement reporting according to the IE.

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 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.

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> 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):

...

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.

...

Upon reception of a MEASUREMENT CONTROL message the UE shall perform actions specified in TS 25.331 subclause 8.6 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> for measurement types "inter-RAT measurement" or "inter-frequency measurement":
    - ...
  - 2> for measurement type "UE positioning measurement":
    - ...
  - 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 "modify":
  - 2> for all IEs present in the MEASUREMENT CONTROL message:
    - 3> if a measurement was stored in the variable MEASUREMENT\_IDENTITY associated to the identity by the IE "measurement identity":
      - 4> for measurement types "inter-frequency measurement" that require measurements on a frequency other than the actually used frequency, or that require measurements on another RAT:
        - ...
      - 4> for any other measurement type:
        - 5> replace the corresponding information stored in variable MEASUREMENT\_IDENTITY associated to the identity indicated by the IE "measurement identity" with the one received in the MEASUREMENT CONTROL message;
        - 5> resume the measurements according to the new stored measurement control information.
    - 3> otherwise:
      - 4> set the variable CONFIGURATION\_INCOMPLETE to TRUE.
  - 2> for all optional IEs that are not present in the MEASUREMENT CONTROL message:
    - 3> leave the currently stored information elements unchanged in the variable MEASUREMENT\_IDENTITY if not stated otherwise for that IE.
- 1> if the IE "measurement command" has the value "release":
  - ...

1> clear the entry for the MEASUREMENT CONTROL message in the table "Accepted transactions" in the variable TRANSACTIONS;

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

1> for intra-frequency measurement, inter-frequency measurement and inter-RAT measurement:

2> exclude the IE "Measured Results" in MEASUREMENT REPORT

Reference

3GPP TS 25.331 clause 8.4.1.8.1, 8.4.1.3, 8.4.2.2, 8.6.7.9.

8.4.1.1.3 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. To confirm that the UE reconfigures the monitoring and reporting activities based on the last MEASUREMENT CONTROL message received.

8.4.1.1.4 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 8.4.1.1-1 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 columns marked "T1" and "T2" are to be applied subsequently. The exact instants on which these values shall be applied are described in the texts in this clause.

Table 8.4.1.1-1

| 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   |     |     |
| CPICH Ec               | dBm/3.84 MHz | -60    | -60 | -60 | -70    | -60 | -80 | -80    | -60 | -60 |

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. The key measurement parameters in the modified System Information Block message are as follow: 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 CPICH RSCP value. After 64 seconds has passed since SS receives the first MEASUREMENT REPORT message, the UE shall transmit a second MEASUREMENT REPORT message.

Note: In P11 or P13 in step 4, in RADIO BEARER SETUP message, IE "Default DPCH Offset Value" and IE "DPCH frame offset" are set to "0".

SS sends a MEASUREMENT CONTROL message on the downlink DCCH. In this message, SS configures an intra-frequency measurement based on the measurement quantity CPICH RSCP. Parameters used in this message are: measurement identity = "1", report criteria = "event-trigger", event identity = "1e", reporting threshold = "-70 dBm". 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 8.4.1.1-1. The UE shall transmit a MEASUREMENT REPORT message when it detects that the CPICH RSCP of cell 3 has risen above the threshold value specified in the previous MEASUREMENT CONTROL message.

SS sends then a new MEASUREMENT CONTROL message to add cell 2 to the list of the cells the UE shall measure. Since the RSCP for cell 2 is above the threshold for event 1e to be triggered, a MEASUREMENT REPORT triggered by cell 2 shall be sent by the UE.

SS reconfigures the downlink transmission power settings according to values in column "T2" in table 8.4.1.1-1. SS sends a new MEASUREMENT CONTROL message on the downlink DCCH. In this message, SS configures an intra-frequency measurement based on the measurement quantity CPICH RSCP. Parameters used in this message are: measurement identity = "1", report criteria = "event-trigger", event identity = "1a", Reporting range 8db. SS reconfigures the downlink transmission power settings according to values in column "T1" in table 8.4.1.1-1. The UE shall transmit a MEASUREMENT REPORT message when it detects that the condition for event 1a is fulfilled. 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) |
| 2    |           | ↔  | SS executes procedure P3 (clause 7.4.2.1.2) or P5 (clause 7.4.2.2.2) specified in TS 34.108.   |  |
| 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. | IE "Default DPCH Offset Value" and IE "DPCH frame offset " in RADIO BEARER SETUP message is set to "0".  |
| 5    |           | SS |  | SS shall wait for a MEASUREMENT REPORT message.  |
| 6    |           | →  | MEASUREMENT REPORT   | After receiving this message, SS shall expect to receive the next MEASUREMENT REPORT message after 64 seconds.   |
| 6a   |           | →  | MEASUREMENT REPORT   | SS shall receive consecutive MEASUREMENT REPORT messages at 64 seconds interval.   |

| Step | Direction |    | Message             | Comment   |
|------|-----------|----|---------------------|---|
|      | UE        | SS |                     |   |
| 7    |           | ←  | 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. |
| 8    |           |    |                     | SS waits for 64 seconds and verifies that no further MEASUREMENT REPORT messages are detected on the uplink DCCH.   |
| 9    |           |    |                     | SS re-adjusts the downlink transmission power settings according to columns "T1" in table 8.4.1.1-1.  |
| 10   |           | →  | MEASUREMENT REPORT  | SS verifies that UE transmits a MEASUREMENT REPORT message triggered by cell 3 and containing report the measured CPICH RSCP value of cell 3.   |
| 10a  |           | ←  | MEASUREMENT CONTROL | A MEASUREMENT CONTROL is sent to the UE to modify the list of the cells the UE shall monitor.   |
| 10b  |           | →  | MEASUREMENT REPORT  | SS verifies that UE transmits a MEASUREMENT REPORT message triggered by cell 2.   |
| 11   |           |    |                     | SS re-adjusts the downlink transmission power settings according to columns "T2" in table 8.4.1.1-2.  |
| 12   |           | ←  | 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. |
| 13   |           |    |                     | SS re-adjusts the downlink transmission power settings according to columns "T1" in table 8.4.1.1-3 and waits 5 seconds.  |
| 14   |           | →  | MEASUREMENT REPORT  | SS verifies that UE transmits a MEASUREMENT REPORT message to report occurrence of event 1a.  |
| 15   |           | ↔  | 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)

Use the same System Information Block Type 11 message as found in clause 6.1.0b of TS 34.108, with the following exceptions:



| Information Element  | Value/remark  |
|--|---|
| Measurement control system information<br>- Intra-frequency measurement system information<br>- Intra-frequency measurement identity<br><br>- Intra-frequency cell info list<br>- CHOICE intra-frequency cell removal<br><br>- New intra-frequency cells<br>- Intra-frequency cell id<br>- Cell info<br>- Cell individual offset<br><br>- Reference time difference to cell<br>- Read SFN Indicator<br>- CHOICE Mode<br>- Primary CPICH Info<br>- Primary Scrambling Code<br><br>- Primary CPICH TX power<br>- TX Diversity Indicator<br>- Cell selection and Re-selection<br><br>- Intra-frequency cell id<br>- Cell info<br>- Cell individual offset<br><br>- Reference time difference to cell<br>- Read SFN Indicator<br>- CHOICE Mode<br>- Primary CPICH Info<br>- Primary Scrambling Code<br><br>- Primary CPICH TX power<br>- TX Diversity Indicator<br>- Cell selection and Re-selection info<br><br>- Reporting information for state CELL_DCH<br>- Intra-frequency reporting quantity<br>- Reporting quantities for active set cells<br>- Cell synchronisation information reporting indicator<br>- Cell identity reporting indicator<br>- CHOICE mode<br>- CPICH Ec/No reporting indicator<br>- CPICH RSCP reporting indicator<br>- Pathloss reporting indicator<br>- Reporting quantities for monitored set cells<br>- Cell synchronisation information reporting indicator<br>- Cell identity reporting indicator<br>- CHOICE mode<br>- CPICH Ec/No reporting indicator<br>- CPICH RSCP reporting indicator<br>- Pathloss reporting indicator<br>- Measurement Reporting Mode<br>- Measurement Report Transfer Mode<br>- Periodical Reporting / Event Trigger Reporting Mode<br>- CHOICE report criteria<br>- Amount of reporting<br>- Reporting interval | Not Present<br>Absence of this IE is equivalent to default value 1<br><br>Not present<br>(This IE shall be ignored by the UE for SIB11)<br><br>1<br><br>Not present<br>Absence of this IE is equivalent to default value 0 dB<br>Not Present<br>TRUE<br>FDD<br><br>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 of TS 34.108<br>Not Present<br>FALSE<br>Not Present (The IE shall be absent as this is the serving cell)<br>2<br><br>Not present<br>Absence of this IE is equivalent to default value 0dB<br>1024<br>TRUE<br>FDD<br><br>Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 of TS 34.108<br>Not Present<br>FALSE<br>Not present<br>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.<br><br>FALSE<br><br>FALSE<br>FDD<br>FALSE<br>FALSE<br>FALSE<br><br>FALSE<br><br>FALSE<br>FDD<br>FALSE<br>TRUE<br>FALSE<br><br>Acknowledged mode RLC<br>Periodical reporting<br><br>Periodic reporting criteria<br>Infinity<br>64 seconds |

MEASUREMENT REPORT (Step 6 and 6a)

| 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                              |
| - Primary CPICH Info                  |  |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 1                  |
| - CPICH Ec/No                         | Check to see if this IE is absent                              |
| - CPICH RSCP                          | Check to see if this IE is absent                              |
| - Pathloss                            | Check to see if this IE is absent                              |
| - Cell measured results               | Check to see if it is absent                                   |
| - Cell Identity                       | Check to see if this IE is absent                              |
| - Cell synchronisation information    |  |
| - Primary CPICH Info                  |  |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 2                  |
| - CPICH Ec/No                         | Check to see if this IE is absent                              |
| - CPICH RSCP                          | "Checked to see if set to within an acceptable range"          |
| - Pathloss                            | Check to see if this IE is absent <p>absent present</p>        |
| 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 7)

| Information Element                                    | Value/remark                                   |
|--|--|
| Measurement Identity                                   | 1  |
| Measurement Command                                    | Setup  |
| Measurement Reporting Mode                             | Acknowledged Mode RLC                          |
| - Measurement Reporting Transfer Mode                  | Event Trigger                                  |
| - Periodic Reporting / Event Trigger Reporting Mode    | Not Present                                    |
| Additional measurements list                           | Intra-frequency measurement                    |
| CHOICE measurement type                                | Intra-frequency measurement                    |
| - <b>Intra-frequency measurement objects list</b>      |  |
| - <b>intra-frequency cell info list</b>                |  |
| - CHOICE intra-frequency cell removal                  | Remove all intra-frequency cells               |
| - New intra-frequency cells                            | 21 new intra-frequency cells                   |
| - Intra-frequency cell id                              | 3  |
| - Cell info  | 0 dB   |
| - Cell individual offset                               | 256 chips                                      |
| - Reference time difference to cell                    | TRUE   |
| - Read SFN Indicator                                   | FDD  |
| - CHOICE mode  |  |
| - Primary CPICH Info                                   | Set to same code as used for cell 3            |
| - Primary Scrambling Code                              | Not Present                                    |
| - Primary CPICH TX power                               | FALSE  |
| - TX Diversity Indicator                               | Not Present                                    |
| - <del>Primary CPICH TX power</del>                    | FALSE  |
| - <del>TX Diversity Indicator</del>                    | Not Present                                    |
| - Cell for measurement                                 | Not Present                                    |
| - Intra-frequency measurement quantity                 | Not Present (Default is 0)                     |
| - Filter Coefficient                                   | FDD  |
| - CHOICE Mode  | CPICH RSCP                                     |
| - Measurement quantity                                 |  |
| - Intra-frequency reporting quantity                   |  |
| - Reporting quantities for active set cells            |  |
| - Cell synchronisation information reporting indicator | FALSE  |
| - Cell identity reporting indicator                    | FALSE  |
| - <b>CHOICE mode</b>                                   | FDD  |
| - <b>CPICH Ec/No reporting indicator</b>               | TRUE   |
| - <b>CPICH RSCP reporting indicator</b>                | TRUE   |
| - <b>Pathloss reporting indicator</b>                  | FALSE  |
| - Reporting quantities for monitored set cells         |  |
| - Cell synchronisation information reporting indicator | TRUE   |
| - Cell identity reporting indicator                    | FALSE  |
| - <b>CHOICE mode</b>                                   | FDD  |
| - <b>CPICH Ec/No reporting indicator</b>               | FALSE  |
| - <b>CPICH RSCP reporting indicator</b>                | TRUE   |
| - <b>Pathloss reporting indicator</b>                  | FALSE  |
| - Reporting quantities for detected cells              | Not present                                    |
| - <b>Reporting cell status</b>                         | Not Present                                    |
| - <b>Measurement validity</b>                          | Not present                                    |
| - <b>CHOICE report criteria</b>                        | Intra-frequency measurement reporting criteria |
| - Parameters required for each events                  |  |
| - Intra-frequency event identity                       | 1e   |
| - <b>Triggering condition 1</b>                        | Not present                                    |
| - Triggering condition 2                               | Monitored set cells                            |
| - <b>Reporting range constant</b>                      | Not Present                                    |
| - <b>Cells forbidden to affect reporting range</b>     | Not Present                                    |
| - <b>W</b>   | Not Present                                    |
| - Hysteresis   | 1 dB   |
| - Threshold used frequency                             | -70 dBm  |
| - <b>Reporting deactivation threshold</b>              | Not Present                                    |
| - <b>Replacement activation threshold</b>              | Not Present                                    |
| - Time to trigger                                      | 0 ms   |
| - Amount of reporting                                  | Infinity                                       |
| - Reporting interval                                   | Not Present                                    |
| - Reporting cell status                                | Not Present                                    |

|                                    |   |
|------------------------------------|---|
| - 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 | 3   |
| DPCH compressed mode status info   | Not Present   |

MEASUREMENT REPORT (Step 10)

| 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   |
| - Primary CPICH Info                  |   |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 1   |
| - CPICH Ec/No                         | Check to see if this IE is present  |
| - CPICH RSCP                          | Check to see if this IE is present  |
| - Pathloss                            | 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.                                     |
| - Primary CPICH Info                  |   |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 3   |
| - CPICH Ec/No                         | Check to see if this IE is absent   |
| - CPICH RSCP                          | 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   |
| 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 "1e"  |
| - Cell measured event results         |   |
| - CHOICE mode                         | Check to see if this IE is set to "FDD"   |
| - Primary CPICH info                  |   |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 3   |

MEASUREMENT CONTROL (Step 10a)

| 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 cell <del>s</del> |
| - Intra-frequency cell id              | 2                                       |
| - Cell info                            |   |
| - Cell individual offset               | 0 dB                                    |
| - Reference time difference to cell    | 0                                       |
| - Read SFN Indicator                   | FALSE                                   |
| - CHOICE mode                          | FDD                                     |
| - Primary CPICH Info                   |   |
| - Primary Scrambling Code              | Set to same code as used for cell 2     |
| - Primary CPICH TX power               | Not Present                             |
| - TX Diversity Indicator               | FALSE                                   |
| - 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 10b)

| 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 23 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  |
| - Primary CPICH Info                  |  |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 1  |
| - CPICH Ec/No                         | Check to see if this IE is present   |
| - CPICH RSCP                          | Check to see if this IE is present   |
| - Pathloss                            | Check to see if this IE is absent  |
| - Cell measured results               | (for cell 2)   |
| - 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.                                      |
| - Primary CPICH Info                  |  |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 2  |
| - CPICH Ec/No                         | Check to see if this IE is absent  |
| - CPICH RSCP                          | Check to see if this IE is present   |
| - Pathloss                            | 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.                                      |
| - Primary CPICH Info                  |  |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 3  |
| - CPICH Ec/No                         | Check to see if this IE is absent  |
| - CPICH RSCP                          | 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  |
| 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 "1e"   |
| - Cell measured event results         |  |
| - CHOICE mode                         | Check to see if this IE is set to "FDD"  |
| - Primary CPICH info                  |  |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 2  |

MEASUREMENT CONTROL (Step 12)

| Information Element                                 | Value/remark                                   |
|---|--|
| Measurement Identity                                | 1  |
| Measurement Command                                 | Setup  |
| Measurement Reporting Mode                          | Acknowledged Mode RLC                          |
| - Measurement Reporting Transfer Mode               | Event Trigger                                  |
| - Periodic Reporting / Event Trigger Reporting Mode | Not Present                                    |
| Additional measurements list                        | Intra-frequency measurement                    |
| CHOICE measurement type                             | Remove all intra-frequency cells               |
| - Intra-frequency cell info list                    | 21 new intra-frequency cells                   |
| - CHOICE intra-frequency cell removal               | 4  |
| - New intra-frequency cells                         |  |
| <del>- Intra-frequency cell id</del>                |  |
| <del>- Cell info</del>                              |  |
| <del>- Cell individual offset</del>                 | 0 dB   |
| <del>- Reference time difference to cell</del>      | Not Present                                    |
| <del>- Read SFN Indicator</del>                     | FALSE  |
| <del>- CHOICE mode</del>                            | FDD  |
| <del>- Primary CPICH Info</del>                     |  |
| <del>- Primary Scrambling Code</del>                | Set to same code as used for cell 1            |
| <del>- Primary CPICH TX power</del>                 | Not Present                                    |
| <del>- TX Diversity Indicator</del>                 | FALSE  |
| - Intra-frequency cell id                           | 2  |
| - Cell info   |  |
| - Cell individual offset                            | 0 dB   |
| - Reference time difference to cell                 | 0 chips  |
| - Read SFN Indicator                                | FALSE  |
| - CHOICE mode                                       | FDD  |
| - Primary CPICH Info                                |  |
| - Primary Scrambling Code                           | Set to same code as used for cell 2            |
| - Primary CPICH TX power                            | Not Present                                    |
| - TX Diversity Indicator                            | FALSE  |
| - Cells for measurement                             | Not Present                                    |
| <del>- Intra-frequency cell id</del>                |  |
| - Intra-frequency measurement quantity              |  |
| - Filter Coefficient                                | Not Present (Default is 0)                     |
| - Measurement quantity                              | CPICH RSCP                                     |
| - Intra-frequency reporting quantity                |  |
| - Reporting quantities for active set cells         |  |
| - Cell synchronisation information reporting        | FALSE  |
| indicator   |  |
| - Cell identity reporting indicator                 | FALSE  |
| - CPICH Ec/No reporting indicator                   | FALSE  |
| - CPICH RSCP reporting indicator                    | FALSE  |
| - Pathloss reporting indicator                      | FALSE  |
| - Reporting quantities for monitored set cells      |  |
| - Cell synchronisation information reporting        | FALSE  |
| indicator   |  |
| - Cell identity reporting indicator                 | FALSE  |
| - CPICH Ec/No reporting indicator                   | FALSE  |
| - CPICH RSCP reporting indicator                    | FALSE  |
| - 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                    | 1a   |
| - <b>Triggering condition 1</b>                     | <b>Not present</b>                             |
| - Triggering condition 2                            | Monitored set cells                            |
| - Reporting range <a href="#">constant</a>          | 8 dB   |
| - Cells forbidden to affect reporting range         | Not Present                                    |
| - W   | 0  |
| - Hysteresis  | 0 dB   |
| - Threshold used frequency                          | Not Present                                    |
| - Reporting deactivation threshold                  | 1  |
| - <b>Replacement activation threshold</b>           | <b>Not Present</b>                             |

|                                  |             |
|----------------------------------|-------------|
| - Time to trigger                | 5000 msec   |
| - Amount of reporting            | Infinity    |
| - Reporting interval             | 16 s        |
| - Reporting cell status          | Not Present |
| DPCH compressed mode status info | Not Present |

MEASUREMENT REPORT (Step 14)

| Information Element              | Value/remark                                  |
|----------------------------------|---|
| Measurement identity             | Check to see if set to 1                      |
| Measured Results                 | 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            |   |
| - Intra-frequency event identity | Check to see if this IE is set to "1a"        |
| - Cell measured event results    |   |
| - CHOICE mode                    | Check to see if this IE is set to "FDD"       |
| - Primary CPICH info             |   |
| - Primary Scrambling Code        | Check to see if it's the same code for cell 2 |

8.4.1.1.5 Test Requirement

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

After step 7 the UE shall not transmit any MEASUREMENT REPORT messages within 64 seconds after SS has transmitted the MEASUREMENT CONTROL message in step 7.

After step 9 the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH, to report that the CPICH RSCP value for cell 3 has risen above the threshold stated in the MEASUREMENT CONTROL message transmitted by the SS in step 7. This MEASUREMENT REPORT message shall also contain IE "Event results", indicating the triggering of event '1e' by cell 3. It shall also contain the measured CPICH RSCP value and cell synchronisation information for cell 3, and the measured CPICH Ec/No and RSCP values for cell 1.

After step 10a, the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH to report that the CPICH RSCP value for cell 2 has risen above the threshold stated in the MEASUREMENT CONTROL message transmitted by the SS in step 10a. The MEASUREMENT REPORT message shall contain the measured CPICH RSCP value and cell synchronisation information for cell 2 and cell 3, as well as the measured CPICH Ec/No and RSCP for cell 1. The IE "Event results" in this message shall indicate that cell 2 has triggered the event.

After step 13, the UE shall transmit a MEASUREMENT REPORT message containing IE "Event results", indicating the triggering of event '1a' by cell 2. The MEASUREMENT REPORT message shall not contain any measured results.

<End of Modifications>



**<Start of Modifications>****8.4.1.5 Measurement Control and Report: Intra-frequency measurement for transition from CELL\_DCH to CELL\_FACH state (FDD)****8.4.1.5.1 Definition****8.4.1.5.2 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).

Upon transition from CELL\_FACH to CELL\_DCH state, the UE shall:

- 1> retrieve each set of measurement control information of measurement type "intra-frequency" stored in the variable MEASUREMENT\_IDENTITY;
- 1> if the IE "measurement validity" for a measurement has been assigned the value "CELL\_DCH":
  - 2> resume the measurement reporting.
- 1> if no intra-frequency measurements applicable to CELL\_DCH state are stored in the variable MEASUREMENT\_IDENTITY:
  - 2> continue monitoring the list of neighbouring cells assigned in the IE "intra-frequency cell info list" 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);
  - 2> if the IE "intra-frequency measurement reporting criteria" was included 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):
    - 3> send the MEASUREMENT REPORT message when reporting criteria in IE "Reporting information for state CELL\_DCH" are fulfilled.

**Reference**

3GPP TS 25.331, clause 8.4.1.6.1, 8.4.1.7.1

**8.4.1.5.3 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.

8.4.1.5.4 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:~~

| <del>Information Element</del> | <del>Value/Remarks</del> |
|--------------------------------|--------------------------|
| <del>MIB-Value-Tag</del>       | <del>4</del>             |

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   |
| - Cell selection and reselection quality measure       | CPICH RSCP   |
| - 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  | FDD  |
| - Primary CPICH Info                                   |  |
| - Primary Scrambling Code                              | Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 of TS 34.108 |
| - Primary CPICH TX power                               | Not Present  |
| - TX Diversity Indicator                               | FALSE  |
| - 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 8.4.1.5-1 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 columns marked "T1" are to be applied subsequently. The exact instants on which these values shall be applied are described in the texts in this clause.

Table 8.4.1.5-1

| Parameter              | Unit         | Cell 1 |     | Cell 2 |     | Cell 3 |     |
|------------------------|--------------|--------|-----|--------|-----|--------|-----|
|                        |              | T0     | T1  | T0     | T1  | T0     | T1  |
| UTRA RF Channel Number |              | Ch. 1  |     | Ch. 1  |     | Ch. 1  |     |
| CPICH Ec               | dBm/3.84 MHz | -60    | -60 | -75    | -85 | -122   | -70 |

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 CPICH RSCP. At the same time, reporting of CPICH 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 8.4.1.5-1. 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 1a 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 CPICH 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 shall receive the MEASUREMENT REPORT messages at 500 milliseconds interval.

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

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 |  |  |
| 1    |           |    |  | UE is in PS-DCCH+DTCH_DCH (state 6-10) in cell 1.  |
| 2    |           |    | Void   |  |
| 3    |           |    | Void   |  |
| 4    |           |    | Void   |  |
| 5    |           | ←  | MEASUREMENT CONTROL  | SS requests for measurement of cell 2's CPICH RSCP value and reporting of CPICH RSCP values of active cells and monitored set cells.   |
| 6    |           | →  | MEASUREMENT REPORT   | UE shall send periodic report at 16 seconds interval.  |
| 7    |           | ←  | PHYSICAL CHANNEL RECONFIGURATION                                 | SS moves the UE to CELL_FACH state.  |
| 8    |           | →  | PHYSICAL CHANNEL RECONFIGURATION COMPLETE                        | UE shall move to CELL_FACH state.  |
| 9    |           | ←  | Master Information Block<br>System Information Block type 11, 12 | SS reconfigures itself according to the settings stated in column "T1" of table 8.4.1.5-1. SIB 11 is modified to indicate that SIB12 is now broadcast and to add cell 2 as a neighbour cell. SIB 12 indicates that cell 3 is included in the IE "intra-frequency cell info list". SS waits for 1 minute and verifies that no MEASUREMENT REPORT messages are detected on the uplink. |
| 10   |           | ←  | SYSTEM INFORMATION CHANGE INDICATION                             | SS waits until T305 has expired.   |
| 11   |           | →  | CELL UPDATE  | UE shall transmit this message with measured results on RACH channels for cell 1 and cell 3 present in this message.   |
| 12   |           | ←  | CELL UPDATE CONFIRM  | No changes in physical resource allocation and RNTI identities.  |
| 13   |           | ←  | PHYSICAL CHANNEL RECONFIGURATION                                 | SS configures dedicated physical channels.   |
| 14   |           | →  | PHYSICAL CHANNEL RECONFIGURATION COMPLETE                        | UE shall transit to CELL_DCH state.  |
| 15   |           | →  | MEASUREMENT REPORT   | Repeated at 500 milliseconds interval  |

Specific Message Content

MEASUREMENT CONTROL (Step 5)

| 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    | Not Present   |
| Additional measurements list                           | Intra-frequency measurement   |
| CHOICE measurement type                                | Remove no intra-frequency cells   |
| - Intra-frequency cell info list                       | 2   |
| - CHOICE intra-frequency cell removal                  | 0 dB  |
| - New intra-frequency info list                        | Not Present   |
| - Intra-frequency cell id                              | FALSE   |
| - Cell info  | FDD   |
| - Cell individual offset                               | Set to same code as used for cell 2   |
| - Reference time difference to cell                    | Not Present   |
| - Read SFN Indicator                                   | FALSE   |
| - CHOICE mode  | FDD   |
| - Primary CPICH Info                                   | Set to same code as used for cell 2   |
| - Primary Scrambling Code                              | Not Present   |
| - Primary CPICH TX power                               | FALSE   |
| - TX Diversity Indicator                               | Not Present   |
| - Cells for measurement                                | Not Present   |
| - Intra-frequency measurement quantity                 | Not Present (Default is 0)  |
| - Filter Coefficient                                   | CPICH RSCP  |
| - Measurement quantity                                 | FALSE   |
| - Intra-frequency reporting quantity                   | FALSE   |
| - Reporting quantities for active set cells            | FALSE   |
| - Cell synchronisation information reporting indicator | FALSE   |
| - Cell identity reporting indicator                    | FALSE   |
| - CPICH Ec/No reporting indicator                      | FALSE   |
| - CPICH RSCP reporting indicator                       | TRUEFALSE   |
| - Pathloss reporting indicator                         | FALSE   |
| - Reporting quantities for monitored set cells         | 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   |
| - Reporting quantities for detected cells              | Not present   |
| - Reporting cell status                                | Report cells within active and/or monitored set on used frequency or within active and/or monitored set on non-used frequency |
| - CHOICE reported cell                                 | 2   |
| - Maximum number of reported cells                     | Not present   |
| - Measurement validity                                 | Periodical reporting criteria   |
| - CHOICE report criteria                               | Infinity  |
| - Amount of reporting                                  | 16 seconds  |
| - Reporting interval                                   | Not Present   |
| DPCH compressed mode status info                       | Not Present   |

MEASUREMENT REPORT (Step 6)

| 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                              |
| - Primary CPICH Info                    |  |
| - Primary Scrambling Code               | Check to see if it's the same code for cell 1                  |
| - CPICH Ec/No                           | Check to see if this IE is absent                              |
| - CPICH RSCP                            | Check to see if this IE is presentabsent                       |
| - Pathloss                              | 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                              |
| - Primary CPICH Info                    |  |
| - Primary Scrambling Code               | Check to see if it's the same code for cell 2                  |
| - CPICH Ec/No                           | Check to see if this IE is absent                              |
| - CPICH RSCP                            | 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                              |
| 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 7)

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 9)

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       | 2             |


System Information Block type 11 (Step 9)

| 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  | FDD   |
| - Primary CPICH Info                                   |   |
| - Primary Scrambling Code                              | Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 of TS 34.108  |
| - Primary CPICH TX power                               | Not Present   |
| - TX Diversity Indicator                               | FALSE   |
| - 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                                   | TRUEFALSE   |
| - CHOICE mode  | FDD   |
| - Primary CPICH Info                                   |   |
| - Primary Scrambling Code                              | Refer to clause titled "Default settings for cell No.2+ (FDD)" in clause 6.1.4 of TS 34.108 |
| - Primary CPICH TX power                               | Not Present   |
| - TX Diversity Indicator                               | FALSE   |
| - Cell selection and Re-selection info                 |   |
| - Qoffset <sub>s,n</sub>                               | 0 dB  |
| - Maximum allowed UL TX power                          | 0 dBm   |
| - HCS neighbouring cell information                    | Not Present   |
| - CHOICE Mode  | FDD   |
| - Qqualmin   | -20dB   |
| - Qrxlevmin  | -115dBm   |
| - 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 9)

| Information Element   | Value/remark   |
|---|--|
| FACH measurement occasion info                                    | Not Present  |
| Measurement control system information                            | Not used   |
| - Use of HCS  | CPICH RSCP   |
| - Cell selection and reselection quality measure                  | 6  |
| - Intra-frequency measurement system information                  | Not Present  |
| - Intra-frequency measurement identity                            | 3  |
| - Intra-frequency cell cells                                      | Not Present  |
| - CHOICE intra-frequency cell removal                             | Not Present  |
| - New intra-frequency cells                                       | Not Present  |
| - Intra-frequency cell id   | TRUE   |
| - Cell info   | FALSE  |
| - Cell individual offset  | FDD  |
| - Reference time difference to cell                               | FDD  |
| - Read SFN Indicator  | FDD  |
| - CHOICE mode   | FDD  |
| - Primary CPICH Info  | FDD  |
| - Primary Scrambling Code   | Refer to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4 of TS 34.108 |
| - Primary CPICH TX power  | Not Present  |
| - TX Diversity Indicator  | FALSE  |
| - Cell selection and Re-selection info                            | 0dB  |
| - Qoffset <sub>s,n</sub>  | 0dBm   |
| - Maximum allowed UL TX power                                     | Not Present  |
| - HCS neighbouring cell information                               | FDD  |
| - CHOICE Mode   | -20dB, -115dBm   |
| - Qqualmin, Qrxlevmin   | Not Present (Default is 0)   |
| - Intra-frequency measurement quantity                            | CPICH RSCP   |
| - Filter Coefficient  | CPICH RSCP   |
| - Measurement quantity  | CPICH RSCP   |
| - Intra-frequency reporting quantity for RACH                     | No report  |
| reporting   | No report  |
| - SFN-SFN observed time difference reporting                      | No report  |
| indicator   | No report  |
| - CHOICE mode   | FDD  |
| - Reporting quantity  | CPICH RSCP   |
| - Maximum number of reported cells on RACH                        | Current cell + best neighbour  |
| - Reporting information for state CELL_DCH                        | Current cell + best neighbour  |
| - Intra-frequency reporting quantity                              | Current cell + best neighbour  |
| - Reporting quantities for active set cells                       | Current cell + best neighbour  |
| - Cell synchronisation information reporting                      | FALSE  |
| indicator   | FALSE  |
| - Cell identity reporting indicator                               | FALSE  |
| - CHOICE mode   | FDD  |
| - CPICH Ec/No reporting indicator                                 | FALSE  |
| - CPICH RSCP reporting indicator                                  | TRUE   |
| - Pathloss reporting indicator                                    | FALSE  |
| - Reporting quantities for monitored set cells                    | FALSE  |
| - Cell synchronisation information reporting                      | FALSE  |
| indicator   | FALSE  |
| - Cell identity reporting indicator                               | FALSE  |
| - CHOICE mode   | FDD  |
| - CPICH Ec/No reporting indicator                                 | FALSE  |
| - CPICH RSCP reporting indicator                                  | TRUE   |
| - Pathloss reporting indicator                                    | FALSE  |
| - Reporting quantities for detected cells                         | Not present  |
| - <a href="#">Measurement Reporting Mode</a>                      | Not present  |
| - <a href="#">Measurement Report Transfer Mode</a>                | <a href="#">Acknowledged mode RLC</a>  |
| - <a href="#">Periodic Reporting/Event Trigger Reporting Mode</a> | <a href="#">Event trigger</a>  |
| - CHOICE report criteria  | Intra-frequency measurement reporting criteria   |
| - Parameter required for each event                               | Intra-frequency measurement reporting criteria   |
| - Intra-frequency event identity                                  | 1a   |
| - Triggering condition 1  | Not Present  |
| - Triggering condition 2  | Monitored set cells  |
| - Reporting range constant  | <del>20.0dB</del> <a href="#">14.5dB</a>   |
| - Cells forbidden to affect reporting                             | Not present  |

|  |   |
|--|---|
| - W  | 0.0   |
| - Hysteresis                                     | 1.0 dB  |
| - Threshold used frequency                       | Not Present   |
| - Reporting deactivation threshold               | 7   |
| - Replacement activation threshold               | Not Present   |
| - Time to trigger                                | 60 ms   |
| - Amount of reporting                            | Infinity  |
| - Reporting Interval                             | 500 milliseconds  |
| - 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               |    |
| - 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 10)

| Information Element                       | Value/Remarks |
|---|---------------|
| BCCH modification info<br>- MIB Value tag | 2             |

CELL UPDATE (Step 11)

| 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     |  |
| - CHOICE measurement quantity             | Check to see if set to "CPICH RSCP"  |
| - CPICH RSCP                              | Check to see if it is present  |
| - Measurement results for monitored cells |  |
| - SFN-SFN observed time difference        | Not Checked  |
| - Primary CPICH info                      |  |
| - Primary scrambling code                 | Check to see if the same as cell 3's code.   |
| - CHOICE measurement quantity             | Check to see if set to "CPICH RSCP"  |
| - CPICH RSCP                              | Check to see if it is present  |

PHYSICAL CHANNEL RECONFIGURATION (Step 13)

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 15)

| 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                                       |
| - Primary CPICH Info                       |   |
| - Primary Scrambling Code                  | Check to see if it's the same code for cell 1                           |
| - CPICH Ec/No                              | Check to see if this IE is absent                                       |
| - CPICH RSCP                               | Check to see if this IE is present                                      |
| - Pathloss                                 | 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                                       |
| - Primary CPICH Info                       |   |
| - Primary Scrambling Code                  | Check to see if it's the same code for cell 3                           |
| - CPICH Ec/No                              | Check to see if this IE is absent                                       |
| - CPICH RSCP                               | Check to see if this IE is present                                      |
| - Pathloss                                 | 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                                       |
| - Primary CPICH Info                       |   |
| - Primary Scrambling Code                  | Check to see if it's the same code for cell 3                           |
| - CPICH Ec/No                              | Check to see if this IE is absent                                       |
| - CPICH RSCP                               | 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 '1a'   |
| - Cell measurement event results           |   |
| - CHOICE Mode                              | Check to see if set to 'FDD'  |
| - Primary CPICH info                       |   |
| - Primary Scrambling Code                  | Check to see if set to the same code for cell 3                         |

8.4.1.5.5 Test Requirement

After step 5, 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 CPICH RSCP value.

After step 8, the UE shall not send any MEASUREMENT REPORT messages containing reporting quantities requested in MEASUREMENT CONTROL messages in step 5.

After step 10, the UE shall perform a cell update procedure and transmit a CELL UPDATE message. In this message, measured values CPICH RSCP for cell 1 and cell 3 shall be included in the IE "measured results on RACH".

After step 15, the UE shall apply the intra-frequency measurement reporting criteria" received in System Information Block type 12 messages of step 9. It shall send MEASUREMENT REPORT messages at 500 milliseconds interval. In these messages, triggering of event '1a' shall be reported in IE "Event results" with IE "Primary CPICH info" containing the primary scrambling code for cell 3.

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

<End of Modifications>

## CHANGE REQUEST

⌘ **TS 34.123-1 CR 530** ⌘ rev **1** ⌘ Current version: **5.3.0** ⌘

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

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

|  |   |
|--|---|
| <b>Title:</b>  | ⌘ Modifications to Package 1 RRC measurement test cases (revision to T1-030739) |
| <b>Source:</b>   | ⌘ Panasonic   |
| <b>Work item code:</b>   | ⌘ TEI <span style="float: right;"><b>Date:</b> ⌘ 15/05/2003</span>              |
| <b>Category:</b>   | ⌘ <b>F</b> <span style="float: right;"><b>Release:</b> ⌘ Rel-5</span>           |
| Use <u>one</u> of the following categories:  |   |
| <b>F</b> (correction)  |   |
| <b>A</b> (corresponds to a correction in an earlier release)                                   |   |
| <b>B</b> (addition of feature),  |   |
| <b>C</b> (functional modification of feature)  |   |
| <b>D</b> (editorial modification)  |   |
| Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> . |   |
| 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:** ⌘ Two measurement-related errors are identified in this CR:

Error 1

For event-trigger measurement, the number of reported cells is determined by IE "CHOICE reported cell" and "Maximum number of reported cells". In default SIB 11, these IEs are set to "Report cell within active set and/or monitored set cells on used frequency" and "3", respectively.

For periodical measurement, it is quoted from TS25.331 clause 8.6.7.9:

The IE "Reporting Cell Status" is not included in SIB 11/12 for periodic intra-frequency measurements. In this case the UE shall assume the default values "Report cells within active set and/or monitored set on used frequency " and "6".

It is also quoted in clause 10.3.7.35 of TS25.331:

'Only cells for which all reporting quantities are available should be included.'

Currently, incorrect number of cells are included in the "Measured Results" of MEASUREMENT REPORT messages.

Error 2

According to TS25.331 clause 8.6.7.9 "Reporting Cell Status" (quoted below):

If the IE "Reporting Cell Status" is received, the UE shall set the IE "Measured Results" in MEASUREMENT REPORT as follows. The UE shall:

- 1> for intra-frequency measurement and inter-frequency measurement:
- 2> include the IE "Cell Measured Results" for cells (excluding cells of another

RAT) that satisfy the condition (such as "Report cells within active set") specified in the IE "Reporting Cell Status", in descending order by the measurement quantity.

.....

This implies that the best cell shall be the first cell reported, followed by second-best cell, and so forth.

Currently, the order of cells included in "Measured Results" of MEASUREMENT REPORT message is incorrect.

**Note:** The measurement capabilities of UE, and power setting accuracy of the SS, should also be taken into consideration in determining the order of cells reported.

**Changes to T1-030739**

1. In step 9a of TC 8.3.4.1, measurement report will not be triggered. This is because cell 1 is still in active set and event '1a' will not be triggered for active set cells.
2. In MEASUREMENT REPORT (step 11) of TC 8.4.1.3, "CPICH Ec/No" shall be present instead of "CPICH RSCP" for cell 1; "CPICH RSCP" shall be present instead of "CPICH Ec/No" for cell 2, as per SIB11 content in step 1.

**Summary of change: ☼**

TC 8.3.4.1, 8.3.4.2

- Message content of SIB 11 is removed, since it is the same as the default.
- Correct which cells should be included in the "Measured Results" of the MEASUREMENT REPORT messages.
- The order the cell shall be reported is also corrected. Note is added to indicate that the order the cell is reported is not important.
- "Cell synchronisation information" is corrected wherever applicable.

TC 8.4.1.3

- In MEASUREMENT REPORT (step 11), cell 1 is reported before cell 2, as cell 1 is a better cell. IE "Cell synchronisation information" is corrected accordingly.

**Changes to T1-030739**

TC 8.3.4.1

- Step 9 and 9a are removed. Test Procedure and Test Requirement are updated accordingly.

TC 8.4.1.3

- In MEASUREMENT REPORT (step 11), "CPICH Ec/No" is set to present instead of "CPICH RSCP" for cell 1; "CPICH RSCP" is set to present instead of "CPICH Ec/No" for cell 2.

**Consequences if not approved:**

☼ A good UE will fail.

**Clauses affected:**

☼ 8.3.4.1, 8.3.4.2, 8.4.1.3

**Other specs**

|   |   |
|---|---|
| Y | N |
| ☼ | X |

Other core specifications

☼

|                        |                                     |  |  |
|------------------------|-------------------------------------|--|--|
| <b>affected:</b>       | <input checked="" type="checkbox"/> | Test specifications                      |  |
|                        | <input checked="" type="checkbox"/> | O&M Specifications                       |  |
| <b>Other comments:</b> | ⌘                                   | Affects R99, REL-4 and REL-5 test cases. |  |

### 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 Modifications>

8.3.4.1 Active set update in soft handover: Radio Link addition

8.3.4.1.1 Definition

8.3.4.1.2 Conformance requirement

Upon reception of an ACTIVE SET UPDATE message the UE shall act upon all received information elements as specified in TS 25.331 subclause 8.6, unless specified otherwise in the following. The UE shall:

- 1> first add the RLs indicated in the IE "Radio Link Addition Information";
- 1> perform the physical layer synchronisation procedure B as specified in TS 25.214;
- 1> set the IE "RRC transaction identifier" in the ACTIVE SET UPDATE COMPLETE message to the value of "RRC transaction identifier" in the entry for the ACTIVE SET UPDATE message in the table "Accepted transactions" in the variable TRANSACTIONS; and
- 1> clear that entry;
- 1> transmit an ACTIVE SET UPDATE COMPLETE message on the uplink DCCH using AM RLC without waiting for the completion of the Physical Layer synchronization B, specified in TS 25.214;

...

Reference

3GPP TS 25.331 clause 8.3.4

8.3.4.1.3 Test purpose

- 1. To confirm that the UE continues to communicate with the SS on both the additional radio link and an already existing radio link after the radio link addition.

8.3.4.1.4 Method of test

Initial Condition

System Simulator: 2 cells - Cell 1 and 2 are active

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 8.3.4.1

| Parameter              | Unit         | Cell 1 |     |     |     | Cell 2 |     |     |     |
|------------------------|--------------|--------|-----|-----|-----|--------|-----|-----|-----|
|                        |              | T0     | T1  | T2  | T3  | T0     | T1  | T2  | T3  |
| UTRA RF Channel Number |              | Ch. 1  |     |     |     | Ch. 1  |     |     |     |
| CPICH Ec               | dBm/3.84 MHz | -60    | -60 | OFF | -60 | -75    | -60 | -60 | OFF |

Table 8.3.4.1 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution.

Initially, the UE goes to connected mode and establishes a radio access bearer in CELL\_DCH state in cell 1.

SS configures its downlink transmission power settings according to columns "T1" in table 8.3.4.1. UE shall be triggered to transmit a MEASUREMENT REPORT message which includes the primary scrambling code for cell 2 according to IE "Intra-frequency event identity", which is set to '1a' in the SYSTEM INFORMATION BLOCK TYPE 11. After the MEASUREMENT REPORT message is received, the SS configures the new radio link to be added from cell 2 and then the SS transmits to the UE an ACTIVE SET UPDATE message in cell 1 on DCCH using AM RLC which includes the IE "Radio Link Addition Information" (e.g. Downlink DPCH information and other optional parameters relevant for the additional radio links with Primary CPICH info used for the reference ID).

When the UE receives this message, the UE shall configure layer 1 to begin reception without affecting the current uplink and downlink activities of existing radio links. The UE shall transmit an ACTIVE SET UPDATE COMPLETE message to the SS on the uplink DCCH using AM RLC without waiting for the physical channel synchronisation B.

SS configures its downlink transmission power settings according to columns "T2" in table 8.3.4.1. UE shall not detect the DPCH from cell 1 but continue to communicate through the another DPCH from cell 2. The UE shall transmit a MEASUREMENT REPORT message which indicates the event '1b' for cell 1.

SS shall transmit a UE CAPABILITY ENQUIRY message to confirm that the UE can respond this message through the DPCH in cell 2. The UE shall transmit a UE CAPABILITY ENQUIRY INFORMATION message. Then SS transmits a UE CAPABILITY INFORMATION CONFIRM message.

~~SS configures its downlink transmission power settings according to columns "T1" in table 8.3.4.1. UE shall detect DPCH from cell 1 and 2 and transmit a MEASUREMENT REPORT message which indicates the event '1a' for cell 1.~~

The SS configures its downlink transmission power settings according to columns "T3" in table 8.3.4.1. UE shall ~~detect DPCH from cell 1, but~~ not detect the DPCH from cell 2, but continue to communicate through ~~another~~ DPCH from cell 1. The UE shall transmit a MEASUREMENT REPORT message which indicates the event '1b' for cell 2.

SS shall transmit a UE CAPABILITY ENQUIRY message to confirm that the UE can respond this message through the DPCH in cell 1. The UE shall transmit a UE CAPABILITY INFORMATION message. Then SS transmits a UE CAPABILITY INFORMATION CONFIRM message. 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    |           |    |                            | SS configures its downlink transmission power settings according to columns "T1" in table 8.3.4.1.   |
| 2    |           | →  | MEASUREMENT REPORT         | See specific message contents for this message   |
| 3    |           | ←  | ACTIVE SET UPDATE          | SS transmits this message in cell 1 on downlink DCCH using AM RLC. The message includes IE "Radio Link Addition Information". (e.g. Downlink DPCH information and other optional parameters relevant for the additional radio links with Primary CPICH info used for the reference ID in cell 2) |
| 4    |           | →  | ACTIVE SET UPDATE COMPLETE | The UE shall configure a new radio link to cell 2, without interfering with existing connections on the radio link in cell 1.  |
| 5    |           |    |                            | SS configures its downlink transmission power settings according to columns "T2" in table 8.3.4.1  |
| 5a   |           | →  | MEASUREMENT REPORT         | See specific message contents for this message   |



|     |    |                                   |   |
|-----|----|-----------------------------------|---|
| 6   | ←  | UE CAPABILITY ENQUIRY             | Use default message.  |
| 7   | →  | UE CAPABILITY INFORMATION         | Use default message.  |
| 8   | ←  | UE CAPABILITY INFORMATION CONFIRM | Use default message.  |
| 9   |    | Void                              | SS configures its downlink transmission power settings according to columns "T1" in table 8.3.4.1                     |
| 9a  | →  | Void MEASUREMENT REPORT           | See specific message contents for this message  |
| 10  |    |                                   | Wait 15 seconds and SS configures its downlink transmission power settings according to columns "T3" in table 8.3.4.1 |
| 10a | →  | MEASUREMENT REPORT                | See specific message contents for this message  |
| 11  | ←  | UE CAPABILITY ENQUIRY             | Use default message.  |
| 12  | →  | UE CAPABILITY INFORMATION         | Use default message.  |
| 13  | ←  | UE CAPABILITY INFORMATION CONFIRM | Use default message.  |
| 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 Content

The contents of SIB11 broadcasted in cell 1 shall be in accordance with the default SIB11 as specified in section 6.1 of TS 34.108, with the following exceptions:

| Information Element                          | Value/remark   |
|--|--|
| <del>New intra-frequency cells</del>         |  |
| <del>Intra-frequency cell id</del>           | 4  |
| <del>Cell info</del>                         |  |
| <del>Cell individual offset</del>            | 0dB  |
| <del>Reference time difference to cell</del> | Not Present  |
| <del>Read SFN indicator</del>                | TRUE   |
| <del>CHOICE mode</del>                       | FDD  |
| <del>Primary CPICH info</del>                |  |
| <del>Primary scrambling code</del>           | Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108 |
| <del>Primary CPICH TX power</del>            | Not Present  |
| <del>TX Diversity indicator</del>            | FALSE  |
| <del>Intra-frequency cell id</del>           | 2  |
| <del>Cell info</del>                         |  |
| <del>Cell individual offset</del>            | 0dB  |
| <del>Reference time difference to cell</del> | Not Present  |
| <del>Read SFN indicator</del>                | TRUE   |
| <del>CHOICE mode</del>                       | FDD  |
| <del>Primary CPICH info</del>                |  |
| <del>Primary scrambling code</del>           | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108 |
| <del>Primary CPICH TX power</del>            | Not Present  |
| <del>TX Diversity indicator</del>            | FALSE  |

The contents of SIB12 in cell 1, and SIB11 and SIB12 in cell 2 shall be in accordance with the default SIBs as specified in TS 34.108.

MEASUREMENT REPORT (Step 2)

| Information Element                         | Value/remark   |
|---|--|
| Message Type                                |  |
| Integrity check info                        | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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.   |
| Measurement identity                        | 1  |
| Measured Results                            |  |
| - Intra-frequency measured results          | <a href="#">Check to see if measurement results for 2 cells are included (the order in which the different cells are reported is not important)</a>  |
| - Cell measured results                     |  |
| - Cell Identity                             | Checked that this IE is absent   |
| - Cell synchronisation information          | Checked that this IE is absent   |
| - Primary CPICH info                        |  |
| - Primary scrambling code                   | Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108   |
| - CPICH Ec/N0                               | Checked that this IE is absent   |
| - CPICH RSCP                                | Checked that this IE is present  |
| - Pathloss                                  | Checked that this IE is absent   |
| - Cell measured results                     |  |
| - Cell Identity                             | Checked that this IE is absent   |
| - Cell synchronisation information          | Checked that this IE is present and includes IE COUNT-C-SFN frame difference   |
| - Primary CPICH info                        |  |
| - Primary scrambling code                   | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108   |
| - CPICH Ec/N0                               | Checked that this IE is absent   |
| - CPICH RSCP                                | Checked that this IE is present  |
| - Pathloss                                  | Checked that this IE is absent   |
| Measured results on RACH                    | Checked that this IE is absent   |
| Additional measured results                 | Checked that this IE is absent   |
| Event results                               |  |
| - Intra-frequency measurement event results |  |
| - Intra-frequency event identity            | 1a   |
| - Cell measurement event results            |  |
| - Primary CPICH info                        |  |
| - Primary scrambling code                   | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108   |

ACTIVE SET UPDATE (Step 3)

The message to be used in this test is defined in TS 34.108, clause 9, with the following exceptions:

| Information Element   | Value/remark   |
|---|--|
| Radio link addition information<br>- Primary CPICH Info<br>- Primary Scrambling Code<br><br>- Downlink DPCH info for each RL<br>- CHOICE mode<br>- Primary CPICH usage for channel estimation<br>- DPCH frame offset<br><br>- Secondary CPICH info<br>- DL channelisation code<br><br>- Secondary scrambling code<br>- Spreading factor<br><br>- Code Number<br><br>- Scrambling code change<br>- TPC Combination Index<br>- SSDT Cell Identity<br>- Close loop timing adjustment mode<br>- TFCI Combining Indicator<br>- SCCPCH information for FACH | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108<br><br>FDD<br>P-CPICH can be used.<br>Calculated value from Cell synchronisation information<br>Not Present<br>This IE is repeated for all existing downlink DPCHs allocated to the UE<br>1<br>Refer to TS 34.108 clause 6.10.2.4 "Typical radio parameter sets"<br>For each DPCH, assign the same code number in the current code given in cell 1.<br>Not Present<br>0<br>Not Present<br>Not Present<br>Not Present<br>Not Present |

MEASUREMENT REPORT (Step 5a)

| Information Element  | Value/remark  |
|--|---|
| Message Type<br>Integrity check info<br><br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Measurement identity<br>Measured Results<br>- Intra-frequency measured results<br><del>Cell measured results</del><br><del>Cell Identity</del><br><del>Cell synchronisation information</del><br><del>Primary CPICH info</del><br><del>Primary scrambling code</del><br><br><del>CPICH Ec/NO</del><br><del>CPICH RSCP</del><br><del>Pathloss</del><br>- Cell measured results<br>- Cell Identity<br>- Cell synchronisation information<br><br>- Primary CPICH info<br>- Primary scrambling code<br><br>- CPICH Ec/NO<br>- CPICH RSCP<br>- Pathloss<br>Measured results on RACH<br>Additional measured results<br>Event results<br>- Intra-frequency measurement event results<br>- Intra-frequency event identity<br>- Cell measurement event results<br>- Primary CPICH info<br>- Primary scrambling code | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.<br><br>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>1<br><br><del>Checked that this IE is absent</del><br><del>Checked that this IE is absent</del><br><br><del>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108</del><br><del>Checked that this IE is absent</del><br><del>Checked that this IE is present</del><br><del>Checked that this IE is absent</del><br><br>Checked that this IE is absent<br>Checked that this IE is <del>absent</del> <a href="#">present and includes IE COUNT-C-SFN frame difference</a><br><br>Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108<br>Checked that this IE is absent<br>Checked that this IE is present<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br><br>1b<br><br>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108 |

**MEASUREMENT REPORT (Step 9a)**

The received message at this step should have the same contents as the message received in Step 6, with the following exceptions:

| Information Element  | Value/remark  |
|--|---|
| Event results<br><del>Intra-frequency measurement event results</del><br><del>Intra-frequency event identity</del><br><del>Cell measurement event results</del><br><del>Primary CPICH info</del><br><del>Primary scrambling code</del> | 1a<br><br><del>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108</del> |

MEASUREMENT REPORT (Step 10a)

The received message at this step should have the same contents as the message received in Step 6, with the following exceptions:

| <b>Information Element</b>   | <b>Value/remark</b>  |
|--|--|
| <del>Event results</del><br><del>- Intra-frequency measurement event results</del><br><del>- Intra-frequency event identity</del><br><del>- Cell measurement event results</del><br><del>- Primary CPICH info</del><br><del>- Primary scrambling code</del>  | 1b<br><br>Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108   |
| <b>Information Element</b>   | <b>Value/remark</b>  |
| Message Type<br>Integrity check info<br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Measurement identity<br>Measured Results<br>- Intra-frequency measured results<br>- Cell measured results<br>- Cell Identity<br>- Cell synchronisation information<br>- Primary CPICH info<br>- Primary scrambling code<br><br>- CPICH Ec/NO<br>- CPICH RSCP<br>- Pathloss<br>Measured results on RACH<br>Additional measured results<br>Event results<br>- Intra-frequency measurement event results<br>- Intra-frequency event identity<br>- Cell measurement event results<br>- Primary CPICH info<br>- Primary scrambling code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>1<br><br>Checked that this IE is absent<br>Checked that this IE is absent<br><br>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108<br>Checked that this IE is absent<br>Checked that this IE is present<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br><br>1b<br><br>Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108 |

8.3.4.1.5 Test requirement

After step 1 the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH using AM RLC.

After step 3 the UE shall transmit an ACTIVE SET UPDATE COMPLETE message on the uplink DCCH using AM RLC to acknowledge the completion of the active set additional procedure.

After step 5a the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH using AM RLC.

After step 6 the UE shall transmit a UE CAPABILITY INFORMATION message.

~~After step 9a the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH using AM RLC.~~

After step 10a the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH using AM RLC.

After step 11 the UE shall transmit a UE CAPABILITY INFORMATION message.

8.3.4.2 Active set update in soft handover: Radio Link removal

8.3.4.2.1 Definition

8.3.4.2.2 Conformance requirement

Upon reception of an ACTIVE SET UPDATE message the UE shall act upon all received information elements as specified in 8.6, unless specified otherwise in the following. The UE shall:

- 1> first add the RLs indicated in the IE "Radio Link Addition Information";
- 1> remove the RLs indicated in the IE "Radio Link Removal Information". If the UE active set is full or becomes full, an RL, which is included in the IE "Radio Link Removal Information" for removal, shall be removed before adding RL, which is included in the IE "Radio Link Addition Information" for addition;
- 1> perform the physical layer synchronisation procedure B as specified in TS 25.214;
- 1> set the IE "RRC transaction identifier" in the ACTIVE SET UPDATE COMPLETE message to the value of "RRC transaction identifier" in the entry for the ACTIVE SET UPDATE message in the table "Accepted transactions" in the variable TRANSACTIONS; and
- 1> clear that entry;
- 1> transmit an ACTIVE SET UPDATE COMPLETE message on the uplink DCCH using AM RLC without waiting for the completion of the Physical Layer synchronization B, specified in TS 25.214;

...

Reference

3GPP TS 25.331 clause 8.3.4

8.3.4.2.3 Test purpose

1. To confirm that the UE continues to communicate with the SS on the remaining radio link after radio link removal on the active set.
2. To confirm that the UE is not using the removed radio link to communicate with the SS.

8.3.4.2.4 Method of test

Initial Condition

System Simulator: 2 cells - both Cell 1 and Cell 2 are active

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 8.3.4.2**

| Parameter              | Unit        | Cell 1 |     |     |     | Cell 2 |     |     |     |
|------------------------|-------------|--------|-----|-----|-----|--------|-----|-----|-----|
|                        |             | T0     | T1  | T2  | T3  | T0     | T1  | T2  | T3  |
| UTRA RF Channel Number |             | Ch. 1  |     |     |     | Ch. 1  |     |     |     |
| CPICH Ec               | dBm/3.84MHz | -60    | -60 | -75 | -60 | -75    | -60 | -60 | OFF |

Table 8.3.4.2 illustrates the downlink power to be applied for the 2 cells at various time instants of the test execution.

At the start of the test, the UE goes to connected mode and establishes a radio access bearer service in the CELL\_DCH state in cell 1.

SS configures its downlink transmission power settings according to columns "T1" in table 8.3.4.2. UE shall be triggered to transmit a MEASUREMENT REPORT message which includes the primary scrambling code for cell 2 according to IE "Intra-frequency event identity", which is set to '1a' in the SYSTEM INFORMATION BLOCK TYPE 11. After the MEASUREMENT REPORT message is received, the SS configures the new radio link to be added from cell 2 and then the SS transmits to the UE an ACTIVE SET UPDATE message in cell 1 on DCCH using AM RLC which includes the IE "Radio Link Addition Information" (e.g. Downlink DPCH information and other optional parameters relevant for the additional radio links with Primary CPICH info used for the reference ID).

When the UE receives this message, the UE shall configure layer 1 to begin reception without affecting the current uplink and downlink activities of existing radio links. The UE shall transmit an ACTIVE SET UPDATE COMPLETE message to the SS on the uplink DCCH using AM RLC.

SS configures its downlink transmission power settings according to columns "T2" in table 8.3.4.2. UE shall transmit a MEASUREMENT REPORT message which includes the primary scrambling code for cell 1 according to IE "Intra-frequency event identity", which is set to '1b' in the SYSTEM INFORMATION BLOCK TYPE 11. After the MEASUREMENT REPORT message is received, the SS remove the radio link from cell 1 and then SS transmits an ACTIVE SET UPDATE message, which includes IE "Radio Link Removal Information" and specifying the P-CPICH information of the cell to be removed.

When the UE receives this message, the UE RRC entity shall request UE L1 entity to terminate transmission and reception of the radio link from cell 1. Then the UE transmits an ACTIVE SET UPDATE COMPLETE message to the SS on the uplink DCCH using AM RLC.

SS shall transmit a UE CAPABILITY ENQUIRY message to confirm that the UE can respond this message through the DPCH in cell 2. The UE shall transmit a UE CAPABILITY INFORMATION message. Then SS transmits a UE CAPABILITY INFORMATION CONFIRM message.

SS configures its downlink transmission power settings according to columns "T3" in table 8.3.4.2 so as to generate a radio link failure condition. The UE shall detect the radio link failure UE shall re-select to cell 1 and transmit a CELL UPDATE message. SS transmits a CELL UPDATE CONFIRM message after it receive CELL UPDATE message from UE. Then the UE shall transmit an UTRAN MOBILITY INFORMATION CONFIRM message on the uplink DCCH to acknowledge the receipt of the new UE identities..

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 |                                    |  |
| 1    |           |    |                                    | SS configures its downlink transmission power settings according to columns "T1" in table 8.3.4.2  |
| 2    |           | →  | MEASUREMENT REPORT                 | See specific message contents for this message   |
| 3    |           | ←  | ACTIVE SET UPDATE                  | SS transmits this message in cell 1 on downlink DCCH using AM RLC. The message includes IE "Radio Link Addition Information". (e.g. Downlink DPCH information and other optional parameters relevant for the additional radio links with Primary CPICH info used for the reference ID in cell 2) |
| 4    |           | →  | ACTIVE SET UPDATE COMPLETE         | The UE shall configure a new radio link to cell 2, without interfering with existing connections on the radio link in cell 1.  |
| 5    |           |    |                                    | SS configures its downlink transmission power settings according to columns "T2" in table 8.3.4.2  |
| 6    |           | →  | MEASUREMENT REPORT                 | See specific message contents for this message   |
| 7    |           | ←  | ACTIVE SET UPDATE                  | The SS transmits this message on downlink DCCH using AM RLC which includes IE "Radio Link Removal Information".  |
| 8    |           | →  | ACTIVE SET UPDATE COMPLETE         | The UE shall remove the radio link associated with cell 1.   |
| 9    |           | ←  | UE CAPABILITY ENQUIRY              | Use default message.   |
| 10   |           | →  | UE CAPABILITY INFORMATION          | Use default message.   |
| 11   |           | ←  | UE CAPABILITY INFORMATION CONFIRM  | Use default message.   |
| 12   |           |    |                                    | SS configures its downlink transmission power settings according to columns "T3" in table 8.3.4.2  |
| 13   |           | →  | CELL UPDATE                        | UE sends this message in cell 1.   |
| 14   |           | ←  | CELL UPDATE CONFIRM                | See message content.   |
| 15   |           | →  | UTRAN MOBILITY INFORMATION CONFIRM |  |

## Specific Message Contents

The contents of SIB11 broadcasted in cell 1 shall be in accordance with the default SIB11 as specified in section 6.1 of TS 34.108, ~~with the following exceptions:~~



| Information Element                 | Value/remark  |
|-------------------------------------|---|
| - New intra-frequency cells         |   |
| - Intra-frequency cell id           | 4   |
| - Cell info                         |   |
| - Cell individual offset            | 0dB   |
| - Reference time difference to cell | Not Present   |
| - Read SFN indicator                | TRUE  |
| - CHOICE mode                       | FDD   |
| - Primary CPICH info                |   |
| - Primary scrambling code           | Refer to clause titled "Default settings for cell No.1 (FDD)" |
| - Primary CPICH TX power            | in clause 6.1 of TS 34.108                                    |
| - TX Diversity indicator            | Not Present   |
| - Intra-frequency cell id           | FALSE   |
| - Cell info                         | 2   |
| - Cell individual offset            | 0dB   |
| - Reference time difference to cell | Not Present   |
| - Read SFN indicator                | TRUE  |
| - CHOICE mode                       | FDD   |
| - Primary CPICH info                |   |
| - Primary scrambling code           | Refer to clause titled "Default settings for cell No.2 (FDD)" |
| - Primary CPICH TX power            | in clause 6.1 of TS 34.108                                    |
| - TX Diversity indicator            | Not Present   |
| - TX Diversity indicator            | FALSE   |

The contents of SIB12 in cell 1, and SIB11 and SIB12 in cell 2 shall be in accordance with the default SIBs as specified in TS 34.108.

MEASUREMENT REPORT (Step 2)

| Information Element                         | Value/remark   |
|---|--|
| Message Type                                |  |
| Integrity check info                        | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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.   |
| Measurement identity                        | 1  |
| Measured Results                            |  |
| - Intra-frequency measured results          | <a href="#">Check to see if measurement results for 2 cells are included (the order in which the different cells are reported is not important)</a>  |
| - Cell measured results                     | Checked that this IE is absent   |
| - Cell Identity                             | Checked that this IE is absent   |
| - Cell synchronisation information          | Checked that this IE is absent   |
| - Primary CPICH info                        | Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108   |
| - Primary scrambling code                   | Checked that this IE is absent   |
| - CPICH Ec/N0                               | Checked that this IE is present  |
| - CPICH RSCP                                | Checked that this IE is absent   |
| - Pathloss                                  | Checked that this IE is absent   |
| - Cell measured results                     | Checked that this IE is absent   |
| - Cell Identity                             | Checked that this IE is present and includes IE COUNT-C-SFN frame difference   |
| - Cell synchronisation information          | Checked that this IE is present and includes IE COUNT-C-SFN frame difference   |
| - Primary CPICH info                        | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108   |
| - Primary scrambling code                   | Checked that this IE is absent   |
| - CPICH Ec/N0                               | Checked that this IE is present  |
| - CPICH RSCP                                | Checked that this IE is absent   |
| - Pathloss                                  | Checked that this IE is absent   |
| Measured results on RACH                    | Checked that this IE is absent   |
| Additional measured results                 | Checked that this IE is absent   |
| Event results                               |  |
| - Intra-frequency measurement event results |  |
| - Intra-frequency event identity            | 1a   |
| - Cell measurement event results            |  |
| - Primary CPICH info                        | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108   |
| - Primary scrambling code                   | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108   |

ACTIVE SET UPDATE (Step 3)

The message to be used in this test is defined in Annex.A, with the following exceptions:

| Information Element   | Value/remark   |
|---|--|
| Radio link addition information<br>- Primary CPICH Info<br>- Primary Scrambling Code<br><br>- Downlink DPCH info for each RL<br>- CHOICE mode<br>- Primary CPICH usage for channel estimation<br>- DPCH frame offset<br><br>- Secondary CPICH info<br>- DL channelisation code<br><br>- Secondary scrambling code<br>- Spreading factor<br><br>- Code Number<br><br>- Scrambling code change<br>- TPC Combination Index<br>- SSDT Cell Identity<br>- Close loop timing adjustment mode<br>- TFCI Combining Indicator<br>- SCCPCH information for FACH | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1 of TS 34.108<br><br>FDD<br>P-CPICH can be used.<br>Calculated value from Cell synchronisation information<br>Not Present<br>This IE is repeated for all existing downlink DPCHs allocated to the UE<br>1<br>Refer to TS 34.108 clause 6.10.2.4 "Typical radio parameter sets"<br>For each DPCH, assign the same code number in the current code given in cell 1.<br>Not Present<br>0<br>Not Present<br>Not Present<br>Not Present<br>Not Present |

MEASUREMENT REPORT (Step 6)

| Information Element  | Value/remark  |
|--|---|
| Message Type<br>Integrity check info<br><br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Measurement identity<br>Measured Results<br>- Intra-frequency measured results list<br>- Cell measured results<br>- Cell Identity<br>- Cell synchronisation information<br><br>- CHOICE mode<br>- Primary CPICH info<br>- Primary scrambling code<br><br>- CPICH Ec/N0<br>- CPICH RSCP<br>- Pathloss<br>- Cell measured results<br>- Cell Identity<br>- Cell synchronisation information<br>- CHOICE mode<br>- Primary CPICH info<br>- Primary scrambling code<br><br>- CPICH Ec/N0<br>- CPICH RSCP<br>- Pathloss<br>Measured results on RACH<br>Additional measured results<br>Event results<br>- CHOICE event result<br>- Intra-frequency event identity<br>- Cell measurement event results<br>- CHOICE mode<br>- Primary CPICH info<br>- Primary scrambling code | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.<br><br>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br><br>1<br><br>Checked that this IE is absent<br>Checked that this IE is <del>absent</del> present and includes IE <a href="#">COUNT-C-SFN frame difference</a><br>FDD<br><br>Refer to clause titled "Default settings for cell No.42 (FDD)" in clause 6.1 of TS 34.108<br>Checked that this IE is absent<br>Checked that this IE is present<br>Checked that this IE is absent<br><br>Checked that this IE is absent<br>Checked that this IE is absent<br>FDD<br><br>Refer to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1 of TS 34.108<br>Checked that this IE is absent<br>Checked that this IE is present<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br><br>Intra-frequency measurement event results<br>1b<br><br>FDD<br><br>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1 of TS 34.108 |

ACTIVE SET UPDATE (Step 7)

The message to be used in this test is the same as the message sub-type found in TS 34.108, clause 9, with the following exceptions:

| Information Element   | Value/remark  |
|---|---|
| Radio link removal information<br><br>- Primary CPICH info<br>- Primary scrambling code | 1 radio link to be removed<br><br>Set to the same P-CPICH scrambling code assigned for cell 1 |

CELL UPDATE (Step 13)

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         |
|---------------------|----------------------|
| Cell Update Cause   | "radio link failure" |

#### CELL UPDATE CONFIRM (Step 14)

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

| Information Element | Value/remark          |
|---------------------|-----------------------|
| New C-RNTI          | '1010 1010 1010 1010' |

#### 8.3.4.2.5 Test requirement

After step 1 the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH using AM RLC.

After step 3 the UE shall transmit an ACTIVE SET UPDATE COMPLETE message on the uplink DCCH using AM RLC to acknowledge the completion of the active set additional procedure.

After step 5 the UE shall transmit a MEASUREMENT REPORT message on the uplink DCCH using AM RLC.

After step 7 the UE shall remove the radio link from cell 1 and it shall transmit an ACTIVE SET UPDATE COMPLETE message on the uplink DCCH using AM RLC.

After step 10 the UE shall transmit a UE CAPABILITY INFORMATION message.

After step 12 the UE shall transmit a CELL UPDATE message on the CCCH with IE "Cell update cause" set to "radio link failure".

After step 14, the UE shall transmit a UTRAN MOBILITY INFORMATION CONFIRM message on the uplink DCCH using AM RLC.

### <End of Modifications>

### <Start of Modifications>

#### 8.4.1.3 Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL\_FACH state (FDD)

##### 8.4.1.3.1 Definition

##### 8.4.1.3.2 Conformance requirement

Upon transition from idle mode to CELL\_FACH state, the UE shall:

- 1> begin or continue monitoring cells listed in the IE "intra-frequency cell info list" received in System Information Block type 12 (or System Information Block type 11).

In CELL\_FACH state, the UE shall:

- 1> include a measurement report in the IE "Measured results on RACH", as specified in the IE "Intra-frequency reporting quantity for RACH reporting" and the IE "Maximum number of reported cells on RACH" in System Information Block type 12 (or "System Information Block Type 11" if "System Information Block Type 12" is not being broadcast);
- 1> include in the IE "Measured results on RACH" all requested reporting quantities for cells for which measurements are reported.

Upon transition from CELL\_FACH to CELL\_DCH state, the UE shall:

- 1> retrieve each set of measurement control information of measurement type "intra-frequency" stored in the variable MEASUREMENT\_IDENTITY;
- 1> if the IE "measurement validity" for a measurement has been assigned the value "CELL\_DCH":
  - 2> resume the measurement reporting.
- 1> if no intra-frequency measurements applicable to CELL\_DCH state are stored in the variable MEASUREMENT\_IDENTITY:
  - 2> continue monitoring the list of neighbouring cells assigned in the IE "intra-frequency cell info list" in System Information Block type 12 (or System Information Block type 11);
  - 2> if the IE "intra-frequency measurement reporting criteria" was included in System Information Block type 12 (or System Information Block type 11):
    - 3> send the MEASUREMENT REPORT message when reporting criteria in IE "Reporting information for state CELL\_DCH" are fulfilled.

Reference

3GPP TS 25.331, clause 8.4.1.9.1, 8.4.1.7.1, 8.4.2.2.

8.4.1.3.3 Test Purpose

1. To confirm that the UE begins or continues to monitor cells listed in IE "intra-frequency cell info list" of System Information Block type 11 or 12 messages after it has entered CELL\_FACH state from idle mode.
2. To confirm that the UE applies the reporting criteria stated in "intra-frequency measurement reporting criteria" IE in System Information Block Type 11 or 12 in a subsequent transition to CELL\_DCH state.
3. To confirm that the UE reports measured results on RACH messages, if it receives IE "Intra-frequency reporting quantity for RACH reporting" and IE "Maximum number of reported cells on RACH" from System Information Block Type 11 or 12 upon a transition from idle mode to CELL\_FACH state.

8.4.1.3.4 Method of test

Initial Condition

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

UE: "Registered idle mode on PS" (state 3) in cell 1 as specified in clause 7.4 of TS 34.108. 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 8.4.1.3-1 illustrates the downlink power to be applied for the 2 cells in this test case.

**Table 8.4.1.3-1**

| Parameter              | Unit         | Cell 1 | Cell 2 |
|------------------------|--------------|--------|--------|
| UTRA RF Channel Number |              | Ch. 1  | Ch. 1  |
| CPICH Ec               | dBm/3.84 MHz | -60    | -67    |

The UE is initially in idle mode and camps on cell 1. The System Information Block type 11 are modified compared to the default settings. In the System Information Block type 11 messages, reporting of CPICH RSCP is also required for intra-frequency reporting when transmitting RACH messages on cell 1.

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 P6. Next SS and UE shall execute procedure P10. Then SS and UE shall execute procedure P14. SS

starts timer T305 and waits until timer T305 expires, the UE shall send a CELL UPDATE message on the CCCH which includes the measured value of cell 1's CPICH RSCP in IE "Measured results on RACH". SS then replies with CELL UPDATE CONFIRM message on the downlink DCCH, without changing the physical channel resources.

SS transmits PHYSICAL CHANNEL RECONFIGURATION message, and allocates dedicated physical channels to the UE. The UE shall transit to CELL\_DCH state and then send a MEASUREMENT REPORT message, correctly stating the measurement identity. The measurement identity indicated shall match the value that was previously broadcast on System Information Block type 11 messages when the UE was still in idle mode. The IE "Measured results" in the MEASUREMENT REPORT messages shall contain measured values of cell 2's CPICH RSCP.

#### Expected Sequence

| Step | Direction |    | Message  | Comment  |
|------|-----------|----|--|--|
|      | UE        | SS |  |  |
| 1    |           | ←  | System Information Block type 1,<br>System Information Block type 11 | The UE is in idle mode and camps onto cell 1. System Information Block type 1 and 11 to be transmitted are different from the default settings (see specific message contents)                 |
| 2    |           | ↔  | SS executes procedure P6 (clause 7.4.2.2.2) specified in TS 34.108.  | SS prompts the test operator to make an outgoing call.   |
| 3    |           | ↔  | SS executes procedure P10 (clause 7.4.2.4.2) specified in TS 34.108. |  |
| 4    |           | ↔  | SS executes procedure P14 (clause 7.4.2.6.2) specified in TS 34.108. |  |
| 5    |           |    | Void   |  |
| 6    |           |    |  | SS monitors the uplink DCCH to confirm that no MEASUREMENT REPORT messages are detected. SS waits for 5 minutes (for the expiry of T305 timer).  |
| 7    |           | →  | CELL UPDATE  | This message shall contain IE "Measured results on RACH" reporting the measured CPICH RSCP for cell 1.   |
| 8    |           | ←  | CELL UPDATE CONFIRM  | SS does not change the physical channel configurations.  |
| 9    |           | ←  | PHYSICAL CHANNEL RECONFIGURATION                                     | SS assigns dedicated physical resources.   |
| 10   |           | →  | PHYSICAL CHANNEL RECONFIGURATION COMPLETE                            | UE shall transit to CELL_DCH state.  |
| 11   |           | →  | MEASUREMENT REPORT   | UE shall begin to report cell 2's CPICH RSCP value periodically at 16 seconds interval. The measurement identity shall match the one that is broadcast for use in CELL_DCH in SIB11 in step 1. |

## Specific Message Content

## System Information Block type 1 (Step 1)

Use the same System Information Block Type 1 message as found in clause 6.1.0b of TS 34.108, with the following exceptions:

| Information Element                                 | Value/Remarks |
|---|---------------|
| UE Timers and constants in connected mode<br>- T305 | 5 minutes.    |

## System Information Block type 11 (Step 1)

Use the same System Information Block Type 11 message as found in clause 6.1.0b of TS 34.108, with the following exceptions:



| Information Element   | Value/remark  |
|---|---|
| Measurement control system information <ul style="list-style-type: none"> <li>- Intra-frequency measurement system information</li> <li>- Intra-frequency measurement identity</li> <li>- Intra-frequency cell info list</li> <li>- CHOICE intra-frequency cell removal</li> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE mode</li> <li>- Primary CPICH Info</li> <li>- Primary Scrambling Code</li> <br/> <li>- Primary CPICH TX power</li> <li>- TX Diversity Indicator</li> <li>- Cell selection and Re-selection info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE mode</li> <li>- Primary CPICH Info</li> <li>- Primary Scrambling Code</li> <br/> <li>- Primary CPICH TX power</li> <li>- TX Diversity Indicator</li> <li>- Cell selection and Re-selection info</li> <li>- Qoffset1<sub>s,n</sub></li> <li>- Qoffset2<sub>s,n</sub></li> <li>- Maximum allowed UL TX power</li> <li>- HCS neighbouring cell information</li> <li>- CHOICE Mode</li> <li>- Qqualmin</li> <li>- Qrxlevmin</li> <li>- Cells for measurement</li> <li>- Intra-frequency reporting quantity for RACH reporting indicator</li> <li>- SFN-SFN observed time difference reporting indicator</li> <li>- CHOICE mode</li> <li>- Reporting quantity</li> <li>- Maximum number of reported cells on RACH</li> <li>- Reporting information for state CELL_DCH</li> <li>- Intra-frequency reporting quantity</li> <li>- Reporting quantities for active set cells</li> <li>- Cell synchronisation information reporting indicator</li> <li>- Cell identity reporting indicator</li> <li>- CHOICE mode</li> <li>- CPICH Ec/No reporting indicator</li> <li>- CPICH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for monitored set cells</li> <li>- Cell synchronisation information reporting indicator</li> <li>- Cell identity reporting indicator</li> <li>- CHOICE mode</li> <li>- CPICH Ec/No reporting indicator</li> <li>- CPICH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Measurement Reporting Mode</li> <li>- Measurement Reporting Transfer Mode</li> <li>- Periodic Reporting/Event Trigger Reporting Mode</li> <li>- CHOICE report criteria</li> </ul> | 5<br><br>Not Present<br><br>1<br><br>Not Present<br>Not present<br>FALSE<br>FDD<br><br>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 of TS 34.108<br>Not Present<br>FALSE<br>Not present<br>2<br><br>Not Present<br>Not Present<br>TRUE<br>FDD<br><br>Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 of TS 34.108<br>Not Present<br>FALSE<br><br>Not Present (Default is 0 dB)<br>Not Present<br>0 dBm<br>Not Present<br>FDD<br>-20dB<br>-115dBm<br>Not Present<br><br>No report<br><br>FDD<br>CPICH RSCP<br>Current cell<br><br>FALSE<br><br>FALSE<br>FDD<br>TRUE<br>FALSE<br>FALSE<br><br>TRUE<br><br>FALSE<br>FDD<br>FALSE<br>TRUE<br>FALSE<br><br>Acknowledged mode RLC<br>Event trigger<br>Intra-frequency measurement reporting criteria |

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>- Parameters required for each event</li> <li>- Intra-frequency event identity</li> <li>- Triggering condition 1</li> <li>- Triggering condition 2</li> <li>- Reporting Range Constant</li> <li>- Cells forbidden to affect reporting range</li> <li>- W</li> <li>- Hysteresis</li> <li>- Threshold used frequency</li> <li>- Reporting deactivation threshold</li> <li>- Replacement activation threshold</li> <li>- Time to trigger</li> <li>- Amount of reporting</li> <li>- Reporting interval</li> <li>- Reporting Cell Status</li> <li>- CHOICE reported cell</li> </ul> | <p>1a<br/>                 Not Present<br/>                 Monitored set cells<br/>                 14 dB<br/>                 Not Present<br/>                 0.0<br/>                 1.0 dB<br/>                 Not Present<br/>                 0<br/>                 Not Present<br/>                 60 ms<br/>                 Infinity<br/>                 16 seconds</p> <p>Report cells within active and/or monitored set on used frequency or within active and/or monitored set on non-used frequency</p> |
| <ul style="list-style-type: none"> <li>- Maximum number of reported cells</li> </ul>  | <p>2</p>  |

CELL UPDATE (Step 7)

| Information Element                       | Value/remark  |
|---|---|
| U-RNTI                                    | Check to see if set to same U-RNTI value assigned in the execution of procedure P6. |
| 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 set to 'Periodical cell update'                                     |
| Failure cause                             | Check to see if this IE is absent   |
| Measured results on RACH                  |   |
| - Measurement result for current cell     |   |
| - CHOICE measurement quantity             | Check to see if set to 'CPICH RSCP'   |
| - CPICH RSCP                              | Checked to see if set to within an acceptable range.                                |
| - Measurement results for monitored cells | Checked to see if this IE is absent.  |

PHYSICAL CHANNEL RECONFIGURATION (Step 9)

Use the same message sub-type found in [9] TS 34.108 clause 9, which is entitled "Packet to CELL\_DCH from CELL\_FACH".

MEASUREMENT REPORT (Step 11)

| 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 measurement results |  |
| - Cell measured results               |  |
| - Cell Identity                       | Check to see if it is absent   |
| - Cell synchronisation information    | Check to see if this IE is <del>absent</del> present and if the reported cell synchronisation information is correct |
| - Primary CPICH Info                  |  |
| - Primary Scrambling Code             | Check to see if it's the same code for cell 12   |
| - CPICH Ec/No                         | Check to see if this IE is presentabsent   |
| - CPICH RSCP                          | Check to see if this IE is absentpresent   |
| - Pathloss                            | 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 absentChecked that this IE is present and includes IE COUNT-C-SFN frame difference        |
| - Primary CPICH Info                  | Check to see if it's the same code for cell 24   |
| - Primary Scrambling Code             | Check to see if this IE is absent  |
| - CPICH Ec/No                         | Check to see if this IE is absentpresent   |
| - CPICH RSCP                          | Check to see if this IE is presentabsent   |
| - Pathloss                            | Check to see if this IE is absent  |
| Measured Results on RACH              | Check to see if this IE is absent  |
| Event Results                         |  |
| - CHOICE event result                 | Check to see if set to "Intra-frequency measurement event results"   |
| - Intra-frequency event identity      | Check to see if set to "1a"  |
| - Cell measurement event results      |  |
| - CHOICE Mode                         | Check to see if set to "FDD"   |
| - Primary CPICH info                  |  |
| - Primary Scrambling Code             | Check to see if set to the scrambling code of cell 2   |

8.4.1.3.5 Test Requirement

After step 5 the UE shall not transmit any MEASUREMENT REPORT messages on the uplink DCCH.

After step 6 the UE shall initiate cell update procedure by transmitting CELL UPDATE message on CCCH. In this message, IE "cell update cause" shall be set to "periodic cell update". It shall include IE "measured results on RACH", containing the measurement value for cell 1's CPICH RSCP.

After step 10 the UE shall transmit MEASUREMENT REPORT messages at 16 seconds interval. In these messages, cell 2's CPICH RSCP value shall be reported in IE "Measured results". The IE "measurement identity" in this message shall match the IE "Intra-frequency measurement identity" found in System Information Block type 11 messages transmitted in step 1. The MEASUREMENT REPORT messages shall also contain IE "Event results", indicating that intra-frequency event "1a" has triggered in the UE.

<End of Modifications>