

CHANGE REQUEST

⌘ **25.331 CR CRNum** ⌘ rev **-** ⌘ Current version: **3.10.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ UE behaviour when active set cells are not included in CELL_INFO_LIST

Source: ⌘ Motorola

Work item code: ⌘ **Date:** ⌘ 30/5/02

<p>Category: ⌘ F</p> <p>Use <u>one</u> of the following categories:</p> <p>F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>	<p>Release: ⌘ R99</p> <p>Use <u>one</u> of the following releases:</p> <p>2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)</p>
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Reason for change: ⌘ The UE behaviour is not fully specified if active set cells are not included in CELL_INFO_LIST. Three scenarios are identified that could cause this situation. It is clear from the specification that the UE must be able to handle the first 2 cases, but the specification is not clear with regard to the 3rd case:

1 - After a blind inter-frequency hard handover (i.e. an inter-frequency hard handover where the UE has not previously measured on the new active set cells). It is clear from the specification that the UE must handle this case where the active cells are not initially included in the CELL_INFO_LIST.

2 - After an inter-RAT handover to UTRAN. Again it is clear that the UE must handle this case where the active cells are not initially included in the CELL_INFO_LIST.

3 - After the network uses ACTIVE SET UPDATE to add a cell that was reported as a detected set cell to the active set, without first updating the CELL_INFO_LIST with a measurement control procedure. Since the introduction of detected set cells in RAN2, it has been the assumption that reporting of these cells is used for optimising cell planning and not for updating the active set. Furthermore, the RAN4 specifications do not include any delay requirements for the detection and reporting of detected set cells, and therefore it seems unlikely that any network implementation would rely on these reports for management of the active set. Therefore, it is proposed that the UE is not required to handle this case. The implication of this is that any network wishing to add a cell, which has been reported as a detected set cell, to the active set would have to add the cell to the CELL_INFO_LIST prior to sending the ACTIVE SET UPDATE.

Summary of change: ⌘ For the case that the network attempts to add a cell not included in CELL_INFO_LIST to the active set using ACTIVE SET UPDATE, it is proposed to clearly state in the specification that the UE behaviour is not specified. This gives a clear indication that the network should not attempt to use this functionality.

Isolated Impact Analysis

Functionality corrected: Intra-frequency measurements when active set cells are not included in CELL_INFO_LIST.

Isolated impact statement: Correction to a function where specification was missing procedural text or rules. Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise.

Consequences if not approved:

⌘ If not approved there will be no clear statement in the spec on the UE behaviour when cells added to the active set using ACTIVE SET UPDATE are not included in CELL_INFO_LIST. A UTRAN could attempt to use this unspecified behaviour.

Clauses affected:

⌘ 8.4.0

Other specs affected:

⌘ Other core specifications ⌘
 Test specifications
 O&M Specifications

Other comments:

⌘

How to create CRs using this form:

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8.4.0 Measurement related definitions

UTRAN may control a measurement in the UE either by broadcast of SYSTEM INFORMATION and/or by transmitting a MEASUREMENT CONTROL message.

The following information is used to control the UE measurements and the measurement results reporting:

1. **Measurement identity:** A reference number that should be used by the UTRAN when setting up, modifying or releasing the measurement and by the UE in the measurement report.
2. **Measurement command:** One out of three different measurement commands.
 - Setup: Setup a new measurement.
 - Modify: Modify a previously defined measurement, e.g. to change the reporting criteria.
 - Release: Stop a measurement and clear all information in the UE that are related to that measurement.
3. **Measurement type:** One of the types listed below describing what the UE shall measure.

Presence or absence of the following control information depends on the measurement type

4. **Measurement objects:** The objects on which the UE shall measure measurement quantities, and corresponding object information.
5. **Measurement quantity:** The quantity the UE shall measure on the measurement object. This also includes the filtering of the measurements.
6. **Reporting quantities:** The quantities the UE shall include in the report in addition to the quantities that are mandatory to report for the specific event.
7. **Measurement reporting criteria:** The triggering of the measurement report, e.g. periodical or event-triggered reporting.
8. **Measurement Validity:** Defines in which UE states the measurement is valid.
9. **Measurement reporting mode:** This specifies whether the UE shall transmit the measurement report using AM or UM RLC.
10. **Additional measurement identities:** A list of references to other measurements. When this measurement triggers a measurement report, the UE shall also include the reporting quantities for the measurements referenced by the additional measurement identities.

All these measurement parameters depend on the measurement type and are described in more detail in clause 14.

The different types of measurements are:

- **Intra-frequency measurements:** measurements on downlink physical channels at the same frequency as the active set. A measurement object corresponds to one cell. Detailed description is found in subclause 14.1.
- **Inter-frequency measurements:** measurements on downlink physical channels at frequencies that differ from the frequency of the active set. A measurement object corresponds to one cell. Detailed description is found in subclause 14.2.
- **Inter-RAT measurements:** measurements on downlink physical channels belonging to another radio access technology than UTRAN, e.g. GSM. A measurement object corresponds to one cell. Detailed description is found in subclause 14.3.
- **Traffic volume measurements:** measurements on uplink traffic volume. A measurement object corresponds to one cell. Detailed description is found in subclause 14.4.
- **Quality measurements:** Measurements of downlink quality parameters, e.g. downlink transport block error rate. A measurement object corresponds to one transport channel in case of BLER. A measurement object corresponds to one timeslot in case of SIR (TDD only). Detailed description is found in subclause 14.5.

- **UE-internal measurements:** Measurements of UE transmission power and UE received signal level. Detailed description is found in subclause 14.6.
- **UE positioning measurements:** Measurements of UE position. Detailed description is found in subclause 14.7.

The UE shall support a number of measurements running in parallel as specified in [19] and [20]. The UE shall also support that each measurement is controlled and reported independently of every other measurement.

Cells that the UE is monitoring are grouped in the UE into three different categories:

1. Cells, which belong to the **active set**. User information is sent from all these cells. In FDD, the cells in the active set are involved in soft handover. In TDD the active set always comprises one cell only.
2. Cells, which are not included in the active set, but are explicitly indicated to be measured by UTRAN belong to the **monitored set**.

NOTE: The cells explicitly indicated to be measured by UTRAN for a given intra-frequency (resp. inter-frequency, inter-RAT) measurement are:

- if the IE "Cells for measurement" has been received for this intra-frequency (resp inter-frequency, inter-RAT) measurement:
 - the intra-frequency (resp. inter-frequency, inter-RAT) cells stored in the variable CELL_INFO_LIST and pointed at in the IE "Cells for measurement".
 - otherwise:
 - any of the intra-frequency (resp. inter-frequency, inter-RAT) cells stored in the variable CELL_INFO_LIST.
3. Cells detected by the UE, which are neither included in the active set nor in the monitored set belong to the **detected set**. Reporting of measurements of the detected set is only applicable to intra-frequency measurements made by UEs in CELL_DCH state.

If a cell that is not included in CELL_INFO_LIST is added to the active set with an ACTIVE SET UPDATE message the UE behaviour is not specified.

CHANGE REQUEST

⌘ **25.331 CR CRNum** ⌘ rev **-** ⌘ Current version: **4.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ UE behaviour when active set cells are not included in CELL_INFO_LIST

Source: ⌘ Motorola

Work item code: ⌘ **Date:** ⌘ 30/5/02

Category: ⌘ **A**

Use one of the following categories:

- F** (correction)
- A** (corresponds to a correction in an earlier release)
- B** (addition of feature),
- C** (functional modification of feature)
- D** (editorial modification)

Detailed explanations of the above categories can be found in 3GPP [TR 21.900](#).

Release: ⌘ REL-4

Use one 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)

Reason for change: ⌘ The UE behaviour is not fully specified if active set cells are not included in CELL_INFO_LIST. Three scenarios are identified that could cause this situation. It is clear from the specification that the UE must be able to handle the first 2 cases, but the specification is not clear with regard to the 3rd case:

1 - After a blind inter-frequency hard handover (i.e. an inter-frequency hard handover where the UE has not previously measured on the new active set cells). It is clear from the specification that the UE must handle this case where the active cells are not initially included in the CELL_INFO_LIST.

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3 - After the network uses ACTIVE SET UPDATE to add a cell that was reported as a detected set cell to the active set, without first updating the CELL_INFO_LIST with a measurement control procedure. Since the introduction of detected set cells in RAN2, it has been the assumption that reporting of these cells is used for optimising cell planning and not for updating the active set. Furthermore, the RAN4 specifications do not include any delay requirements for the detection and reporting of detected set cells, and therefore it seems unlikely that any network implementation would rely on these reports for management of the active set. Therefore, it is proposed that the UE is not required to handle this case. The implication of this is that any network wishing to add a cell, which has been reported as a detected set cell, to the active set would have to add the cell to the CELL_INFO_LIST prior to sending the ACTIVE SET UPDATE.

Summary of change: ⌘ For the case that the network attempts to add a cell not included in CELL_INFO_LIST to the active set using ACTIVE SET UPDATE, it is proposed to clearly state in the specification that the UE behaviour is not specified. This gives a clear indication that the network should not attempt to use this functionality.

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Functionality corrected: Intra-frequency measurements when active set cells are not included in CELL_INFO_LIST.

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Consequences if not approved:

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Clauses affected:

⌘ 8.4.0

Other specs affected:

⌘ Other core specifications ⌘
 Test specifications
 O&M Specifications

Other comments:

⌘

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