Agenda Item: 4.3

Source: Ericsson

Title: **CR to 25.303: Transfer and update of system information**

Document for: Approval

_____

This change request is created as a result of the approved contribution TSGR2#5(99)584 "Mechanisms to transfer and update of system information".

3G CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.303 CR **00?**   Current Version: 3.0.0

3G specification number ↑   *↑ CR number as allocated by 3G support team*

For submision to TSG **RAN#5**   for approval **X**   *(only one box should*
list TSG meeting no. here ↑   for information ☐   *be marked with an X)*

Form: 3G CR cover sheet, version 1.0   *The latest version of this form is available from:* ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf

Proposed change affects: USIM ☐   ME **X**   UTRAN **X**   Core Network ☐
(at least one should be marked with an X)

Source:	TSG-RAN WG2	**Date:**	09/08/99

Subject: Transfer and update of system information

3G Work item:

Category: F Correction   ☐
                 A Corresponds to a correction in a 2G specification   ☐
(only one category   B Addition of feature   **X**
shall be marked   C Functional modification of feature   ☐
with an X)   D Editorial modification   ☐

Reason for change: Currently there is no specification of system information shall be transferred and updated to the UE. It is proposed to add such a specification for each UE RRC state.

Clauses affected: 5.5.1.1, 5.5.1.2, 5.5.1.4, 5.5.2

Other specs affected:
Other 3G core specifications	☐	→ List of CRs:
Other 2G core specifications	☐	→ List of CRs:
MS test specifications	☐	→ List of CRs:
BSS test specifications	☐	→ List of CRs:
O&M specifications	☐	→ List of CRs:

Other comments:

help.doc

<---------- double-click here for help and instructions on how to create a CR.

5.5.1.1   DCH / DCH, DCH / DCH + DSCH and DCH / DSCH + DSCH Ctrl substates

5.5.1.1.15   Transfer and update of system information (DCH/DCH and DCH/DCH+DSCH)

UEs with certain capabilities shall read system information broadcast on FACH. *[Editors note: Currently it is only UEs having DRAC capabilities that need to read system information on FACH.]*

5.5.1.2   RACH + (FAUSCH) + (CPCH) / FACH substates

[Note: Channels in parenthesis available after allocation.]

The position of the UE is known by UTRAN on cell level. In the RACH / FACH substate the UE performs the following actions:

- listens to an FACH

- listens to the BCH transport channel of the serving cell for the decoding of system information messages (FFS)

- initiates a cell update procedure on cell change

- transmits uplink control signals and small data packets on the RACH.

- transmits uplink control signals and larger data packets on CPCH when resources are allocated to cell and UE is assigned use of those CPCH resources.

Furthermore, the UE can use the FAUSCH to trigger the allocation of a new DCH by RNC. Further rate adaptation can be done via the DCCH of the new DCH.

5.5.1.2.12   Transfer and update of system information (RACH + (FAUSCH) + (CPCH)/FACH)

The UE shall read the BCH to acquire valid system information. For each acquisition, the UE may need different combinations of system information broadcast on BCH. The scheduling on the broadcast channel is done in such way that the UE knows when the requested information can be found.

When the system information is modified, the scheduling information is updated to reflect the changes in system information transmitted on BCH. The new scheduling information is broadcast on FACH in order to inform UEs about the changes. If the changes are applicable for the UE, the modified system information is read on BCH.

5.5.1.3   RACH/DSCH and RACH+FAUSCH/DSCH substates

FFS.

5.5.1.4   PCH substate

5.5.1.4.7   Transfer and update of system information (PCH)

The UE shall read the BCH to acquire valid system information. For each acquisition, the UE may need different combinations of system information broadcast on BCH. The scheduling on the broadcast channel is done in such way that the UE knows when the requested information can be found.

5.5.2 URA Connected State

5.5.2.4   Transfer and update of system information (URA Connected)

The same mechanisms to transfer and update system information as for substate PCH are applicable for UEs in URA connected state, see section 5.5.1.4.7.