

<b>CHANGE REQUEST</b>				Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>33.102</b>	<b>CR</b>	<b>xxx</b>	Current Version: <b>3.5.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team		
For submission to: <b>SA #9</b> <i>list expected approval meeting # here</i>	for approval for information	<input checked="" type="checkbox"/> <input type="checkbox"/>	strategic non-strategic	(for SMG use only)
↑		<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
*(at least one should be marked with an X)*

**Source:** Ericsson **Date:** 2000-08-31

**Subject:** New FRESH at SRNC relocation

**Work item:** Security

**Category:**

F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

**Reason for change:** Alignment with TS 25.331 regarding the FRESH parameter handling at SRNC relocation. The new FRESH parameter generated by target RNC is sent to the MS in an RRC message.

**Clauses affected:** 6.5.4.3

**Other specs affected:**

Other 3G core specifications	<input type="checkbox"/>	→	List of CRs:
Other GSM core specifications	<input type="checkbox"/>	→	List of CRs:
MS test specifications	<input type="checkbox"/>	→	List of CRs:
BSS test specifications	<input type="checkbox"/>	→	List of CRs:
O&M specifications	<input type="checkbox"/>	→	List of CRs:

**Other comments:**



help.doc

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

### 6.5.4.3 FRESH

The network-side nonce FRESH is 32 bits long.

There is one FRESH parameter value per user. The input parameter FRESH protects the network against replay of signalling messages by the user. At connection set-up the RNC generates a random value FRESH and sends it to the user in the (RRC) *security mode command*. The value FRESH is subsequently used by both the network and the user throughout the duration of a single connection. This mechanism assures the network that the user is not replaying any old MAC-Is.

At handover with relocation of the S-RNC, the new S-RNC generates its own value for the FRESH parameter and sends it ~~in a new security mode command~~ to the ~~user~~ ME in the RRC message that indicates a new URNTI due to a SRNC relocation (see TS 25.331).