9 - 12 July 2002, Helsinki, Finland

| CHANGE REQUEST | | | | | | |
|---|--|---|----------------------------|---|---|---|
| ^ж 33 | .203 CR | ж rev | - # C | urrent versic | on: 5.2.0 | ж |
| For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the \Re symbols. | | | | | | |
| Proposed change affects: # (U)SIM ME/UE Radio Access Network Core Network X | | | | | | |
| Title: % Update of User Authentication Failure | | | | | | |
| Source: # Hutchison 3G UK | | | | | | |
| Work item code: % IMS-ASECDate: % 12/7/02 | | | | | | |
| Deta be fo | one of the following categ F (correction) A (corresponds to a corr B (addition of feature), C (functional modification) ailed explanations of the a bund in 3GPP <u>TR 21.900</u> . | rection in an ear n of feature) bove categories | <i>ier release)</i> can | 2 ((R96 (R97 (R98 (R99 (REL-4 (REL-5 (| he following rele GSM Phase 2) Release 1996) Release 1997) Release 1998) Release 1999) Release 4) Release 5) | |
| Reason for change: ¥ | The text is updated to checked. It also describes the second seco | | | | | |
| Summary of change: # The text is changed to make it the authentication response that is clopposed to the RES. It also describes what happens in the unlikely circumstances that the integrity check passes but the response fails | | | | unlikely | ed as | |
| Consequences if # not approved: | The text will not refle response. No behavi check passes but the incorrect implementa | our will be des authentication | cribed in the | e unlikely ev | ent that the in | |
| Clauses affected: # | 6.1.2, 6.1.2.1 | | | | | |
| Other specs % affected: | Other core specific Test specifications O&M Specification | 6 | | | | |
| Other comments: Ж | | | | | | |

6.1.2 Authentication failures

[Editor's note: This subsection shall deal with the requirements for network and user authentication failures.]

6.1.2.1 User authentication failure

In this case the authentication of the user should fail at the S-CSCF due an incorrect <u>response</u>RES (received in SM9). However, if<u>n this case when the response</u>RES is incorrect, <u>then</u> the IK used to protect SM7 will <u>normally</u> be incorrect as well, <u>which will normally cause the and</u>-integrity check at <u>the P-CSCF towill</u> fail before <u>the response</u>RES can be verified at S-CSCF. In this case SM7 is discarded by the IPsec layer at the P-CSCF.

P-CSCF in this case shall discard SM7 and the registration and authentication procedures shall be then aborted.

If the integrity check passes but the response is incorrect, the message flows are identical up to and including SM9 as a successful authentication. Once the S-CSCF detects the user authentication failure it should proceed in the same way as having received SM9 in a network authentication failure (see clause 6.1.2.2).