## 9 - 12 July 2002, Helsinki, Finland

CHANGE REQUEST										CR-Form-v5
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For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>%</b> symbols.										
Proposed change affects: \$\mathbb{H}\$ (U)SIM ME/UE Radio Access Network Core Network										
Title: Ж	Upda	te of User A	<mark>uthenticati</mark>	on Failur	е					
Source: #	# Hutchison 3G UK									
Work item code: 第	IMS-	ASEC					Date:	12/7/0	02	
Reason for change	Detail be fou		ds to a correct feature), modification, odification, ons of the above the control of the control	ection in a n of feature pove categ	e) gories ca for usir	n ig Dige	R97 R98 R99 REL-4 REL-5	the follo (GSM P (Releas (Releas (Releas (Releas (Releas	wing rele Phase 2) te 1996) te 1997) te 1998) te 1999) te 4) te 5)	r directly
Summary of chang	checked. It also describes what to do if the integrity protection passes response fails.  The text is changed to make it the authentication response that is choopposed to the RES. It also describes what happens in the unlikely circumstances that the integrity check passes but the response fails.							s checke		
Consequences if not approved:	*	The text will not reflect the use of Digest AKA to carry the authentication response. No behaviour will be described in the unlikely event that the integrity check passes but the authentication response fails. Both issues could lead to incorrect implementations.								
Clauses affected:	*	6.1.2, 6.1.2	2.1							
Other specs affected:	*	Test spe	re specific cifications ecifications		X					
Other comments:	æ									

## 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> (received in SM9). However, if this case when the response is incorrect, then the IK used to protect SM7 should will be incorrect as well, which should cause the and integrity check at the P-CSCF to will fail before the response RES can be verified at S-CSCF. In this case the

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).