## 14 - 17 May 2002

## Victoria, Canada

												CR-Form-v5
CHANGE REQUEST												
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For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <b>%</b> symbols.												
Proposed change affects:    (U)SIM												
Title:	date of l	User A	uthentic	ation F	ailure							
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De	e <u>one</u> of t <b>F</b> (corr <b>A</b> (corr <b>B</b> (add <b>C</b> (fund	rection) respond lition of ctional r torial mo	Is to a co feature), nodification odification	orrection ion of fe n) above	in an e eature)			2	of the (GS (Re (Re (Re (Re	el-5 following SM Phase elease 199 elease 199 elease 4) elease 5)	2) 96) 97) 98)	ases:
Reason for change: 3	chec	The text is updated to account for using Digest AKA, as RES is no longer direct checked. It also describes what to do if the integrity protection passes and the response fails.										
Summary of change:	oppo	The text is changed to make it the authentication response that is check opposed to the RES. It also describes what happens in the unlikely circumstances that the integrity check passes but the response fails.								cke	d as	
Consequences if not approved:	respo	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 intercheck passes but the authentication response fails. Both issues could lead incorrect implementations.										
Clauses affected:	<b>€</b> 6.1.2	, 6.1.2.	1			_	_					
affected:	Te	est spe	re specification	าร	is :	K						

## 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, in the case when the response is incorrect, it is very likely that the IK used to protect SM7 will be incorrect as well, which will cause the and-integrity check at the P-CSCF to will fail before the response can RES ean 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.

In the unlikely event that the integrity check passes but the response is incorrect, the message flows are identical up to 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).