3GPP TSG SA WG3 Security — S3#23   S3-020294

14 - 17 May 2002, Victoria, Canada

CHANGE REQUEST

⌘	**33.203** CR		⌘**rev**	**-**	⌘ Current version:	**5.1.0** ⌘

For HELP on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network **X**

Title:	⌘	UE and P-CSCF Behaviour on an Incomplete Authentication
Source:	⌘	Hutchison 3G UK
Work item code:	⌘	**Date:** ⌘
Category:	⌘ **F**	**Release:** ⌘ Rel-5

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change:	⌘	The behaviour of the UE, P-CSCF and S-CSCF after an incomplete registration is not currently specified. This leaves an incomplete specification. The change also removes an Editor's note.
Summary of change:	⌘	Describes the behaviour of the UE, P-CSCF and S-CSCF after an incomplete authentication.
Consequences if not approved:	⌘	The specification will not be complete, which may lead to implementations that do not operate successfully together.

Clauses affected:	⌘	6.1.2.3, 7.3, 7.3.1.4

Other specs affected:	⌘	☐ Other core specifications	⌘	
		☐ Test specifications		
		☐ O&M Specifications		

Other comments:	⌘	

************** FIRST CHANGED SECTION ***************

6.1.2.3 Incomplete authentication

If the S-CSCF does not receive a response to an authentication within an acceptable time, it considers the authentication to have failed. If the IMPU was not already registered, the S-CSCF shall send a Cx-Put to the HSS to set the registration-flag for that IMPU to *unregistered* (see message CM3 in clause 6.1.2.2). If the IMPU was already registered, the S-CSCF does not change the registration-flag.

************** NEXT CHANGED SECTION **************

7.3   Error cases in the set-up of security associations

Whenever an expected message is not received after a time-out the receiving entity considers the registration to have failed.

[Editor's note: Clarify, how SIP registration handles the inconsistent state that is created by a lost SM12 message]

************* NEXT CHANGED SECTION *************

7.3.1.4   Incomplete authentication

If the UE responds to an authentication challenge from a S-CSCF, but does not receive a reply before the request times out, the UE shall start a registration procedure if it still requires any IM services. The first message in this registration should be protected with an SA created by a previous successful authentication if one exists.

If the P-CSCF deletes a registration SA due to its lifetime being exceeded, the P-CSCF should delete any information relating to that registration procedure.