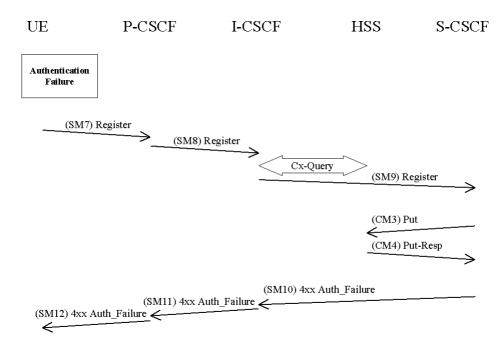
14 - 17 May 2002

Victoria, Canada

CHANGE REQUEST							CR-Form-v5
CHANGE REQUEST							
*	TS33.203	CR	жrev	- #	Current versi	ion: 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 chang	e affects: ೫	(U)SIM	ME/UE	Radio Ac	cess Network	Core Ne	etwork X
Title:							
Source:	器 Hutchiso	n 3G UK					
Work item code:					Date: ℜ	09/05/02	
	F (con A (con B (ad C (fur D (ed Detailed ex be found in	the following caterrection) rresponds to a codition of feature), nctional modifications and interioral modifications are supplemental modifications.	orrection in an ea ion of feature) n) above categorie 0.	s can	Use <u>one</u> of t 2) R96 R97 R98 R99 REL-4 REL-5	Rel-5 the following relations (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)	
Reason for change: # Currently the S-CSCF de-registers the user on network authentication failure. This is not the desired behaviour as it allows an attacker to de-register a subscriber.							
Summary of change: The S-CSCF does not de-register the IMPU on network authentication failure if the IMPU is already registered.							
Consequences it not approved:	f # An a	attacker could fo	orce an IMPU to	o be de-reç	gistered.		
Clauses affected	l: 第 <mark>6.1.2</mark>	2.2					
Other specs affected:	Т	Other core speci lest specification O&M Specification	ns				
Other comments	: X						

6.1.2.2 Network authentication failure

In this section the case when the authentication of the network is not successful is specified. When the check of the MAC in the UE fails the network can not be authenticated and hence registration fails. The flow is identical as for the successful registration in 6.1.1 up to SM6.



The UE shall send a Register message towards the HN including an indication of the cause of failure in SM7. The P-CSCF and the I-CSCF forward this message to the S-CSCF.

SM7: REGISTER(Failure = AuthenticationFailure, IMPI)

Upon receiving SM9, which includes the cause of authentication failure, the S-CSCF shall set the registration-flag to unregistered, if the IMPU is not already registered. If the IMPU was already registered, the S-CSCF does not update the registration flag. To set the flag the S-CSCF sends in CM3 a Cx-Put in CM3 to the HSS.and receives a Cx-Put-Resp in CM4.

CM3: Cx-AV-Put(IMPI, IMPU, Clear S-CSCF name)

The S-CSCF sends a Cx-Put (CM3) to the HSS, which indicates that authentication failed and that, the S-CSCF should be cleared. The HSS responds with a Cx-Put-Resp in CM4.

In SM10 the S-CSCF sends a 4xx Auth_Failure towards the UE indicating that authentication has failed, no security parameters shall be included in this message.

SM10: SIP/2.0 4xx Auth_Failure

Upon receiving SM10 the I-CSCF shall clear any registration information related to the IMPI.

[Editor's note: It is FFS if same header i.e. 4xx Auth_Failure shall be used for both UE and network authentication failure.]