## 14 - 17 May 2002

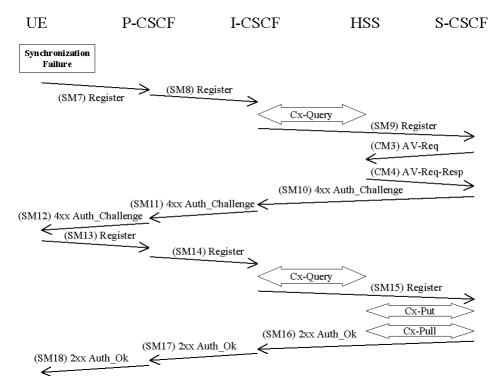
## Victoria, Canada

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CHANGE REQUEST										
*	33.20	0 CR		жre	v -	æ	Current vers	sion:	5.1.0	Ж
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: 第 (U)SIM ME/UE Radio Access Network Core Network X										
Title: 第	Correct	ting the ne	twork bel	haviour in	respons	se to a	an incorrect A	AUT-S		
Source: #	Hutchis	on 3G Uk	(							
Work item code: ₩							Date: ૠ	7/5/0	02	
Category: 業	F (0 A (0 B (3 C (1 D (6 Detailed	addition of unctional reditorial mo	s to a corre feature), nodification dification) ns of the ab	ories: ection in an of feature, bove catego	)		Release: # Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5	the follo (GSM (Relea (Relea (Relea	owing rele Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4)	eases:
Reason for change	Son for change:  Currently the text states the behaviour shift also makes returning AVs conditional or is out of line with TS 33.102 which returns successful or not. The change is to make 33.102						n a successful checking of AUTS. This a AVs regardless of whether AUTS was			
Summary of chang	e: 米 To		HSS alw	ays returr	n AVs w	hethe	r the AUTS o	check is	s succes	sful or
Consequences if not approved:		consistenc plementa		pecification	n that c	ould I	ead to incom	patible	)	
Clauses affected:	<b>第</b> 6.	1.3								
Other specs affected:	*	Other cor Test spec O&M Spe	ifications		*					
Other comments:	ж									

## 6.1.3 Synchronization failure

[Editor's note: This subsection shall deal with the requirements for the case when the SQNs in the ISIM and the HSS are not in synch.]

In this section the case of an authenticated registration with synchronization failure is described. After resynchronization, authentication may be successfully completed, but it may also happen that in subsequent attempts other failure conditions (i.e. user authentication failure, network authentication failure) occur. In below only the case of synchronization failure with subsequent successful authentication is shown. The other cases can be derived by combination with the flows for the other failure conditions.



The flow equals the flow in 6.1.1 up to SM6. When the UE receives SM6 it detects that the SQN is out of range and sends a synchronization failure back to the S-CSCF in SM7.

SM7: REGISTER(Failure = *Synchronization Failure*, AUTS, IMPI)

Upon receiving the *Synchronization Failure* and the AUTS the S-CSCF sends an Av-Req to the HSS in CM3 including the required number of Avs, n.

CM3: Cx-AV-Req(IMPI, RAND,AUTS, n)

The HSS checks the AUTS as in section 6.3.5 in [1]. If the check is successful and After potentially after updating the SQN, the HSS creates and sends new AVs to the S-CSCF in CM4.

CM4:  $Cx-AV-Req-Resp(IMPI, n,RAND_1||AUTN_1||XRES_1||CK_1||IK_1,....,RAND_n||AUTN_n||XRES_n||CK_n||IK_n)$ 

The rest of the messages i.e. SM10-SM18 including the Cx messages are exactly the same as SM4-SM12 and the corresponding Cx messages in 6.1.1.