Other comments:

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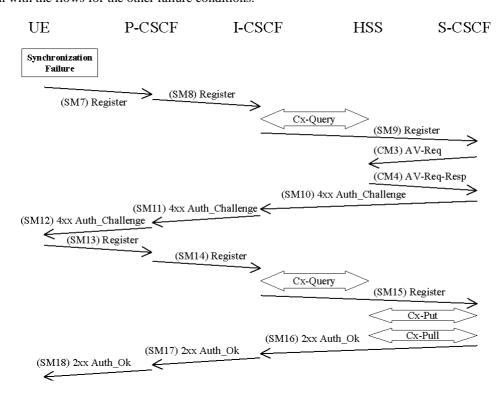
3GPP TSG-SA3 Meeting #34 Acapulco, Mexico, 6-9 July 2004

Tdoc #S3-040483

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CHANGE REQUEST																
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For HELP on using this form, see bottom of this page or look at the pop-up text over the ℜ symbols.																
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Propose	d chang	e a	ffect	s: l	JICC a	anns#		ME	Ra	idio A	ccess N	letwo	rk	C	ore Ne	etwork X
	Proposed change affects: UICC apps# ME Radio Access Network Core Network X															
Title:		H	Del	etion o	of old a	authentic	ation ve	ectors in	n S-C	SCF	after re	-sync	hroni	zatio	on	
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			Use <u>e</u>	one of	the foll	owing cate	egories:				Use <u>c</u>	<u>one</u> of	the fo	ollow	ing rel	eases:
				F (con	rection)					2		(GSI	M Ph	ase 2)	1
				A (cor	respon	ds to a co	rrection	in an ea	ırlier ı	releas	e) R	96	(Rel	ease	1996)	
						f feature),					R9	97	(Rel	ease	1997)	
						modificati		ature)			R	98	(Rel	ease	1998)	
				D (edi	torial m	nodification	n)				R	99	(Rel	ease	1999)	
			Detai	led exp	olanatio	ons of the	above of	categorie	s car	1	Re	e <i>l-4</i>		ease		
			be fo	und in	3GPP	TR 21.900	<u>)</u> .				Re	e <i>l-5</i>	(Rel	ease	5)	
											Re	el-6	(Rel	ease	6)	
Reason	for chan	ge:	: ж	It is r	not des	scribed in	the T	33.20	3 tha	t S-C	SCF mu	ıst de	lete t	hose	Э	
				auth	enticat	ion vecto	ors it ha	as in sto	rage	and	which it	has r	eceiv	ed fı	rom th	ne HSS
				befo	re the	re-synch	ronizat	ion was	perf	orme	d.					
Summary of change: #			e:#													
				auth	enticat	ion vecto	ors from	n the HS	SS as	an r	esponse	e to th	e au	then	ticatio	n vector
				requ	est wit	h re-synd	chroniz	ation in	dicat	ion.						
Consequ	iences if	f	\mathfrak{H}	If S-0	CSCF	doesn't d	delete t	he old a	uthe	nticat	tion vect	tors it	has	in sto	orage	, new re-
not appr	oved:			sync	hroniz	ation erro	ors will	occur.								
Clauses	affected	! :	\mathfrak{H}	6.1.3	}											
			_													
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Other sp	ecs		ж	Х	Othe	r core sp	ecificat	ions	Ж							
affected:				Х		specifica										
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6.1.3 Synchronization failure

In this clause 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. RFC 3310 [17] describes the fields to populate corresponding parameters of synchronization failure.

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 RAND stored by the S-CSCF and the required number of Avs, m.

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

The HSS checks the AUTS as in clause 6.3.5 of TS 33.102 [1]. After potentially updating the SQN, the HSS 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) \\ \\ RAND_1||AUTN_1||XRES_1||CK_1||IK_1,....,RAND_n||AUTN_n||XRES_n||CK_n||IK_n||XRES_n||CK_n||IK_n||XRES_n||CK_n||IK_n||XRES_n||CK_n||IK_n||XRES_n||CK_n||IK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||CK_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||XRES_n||$

When the S-CSCF receives the new batch of authentication vectors from the HSS it deletes the old ones for that user in the S-CSCF.

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