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CHANGE REQUEST										CR-Form-v7			
*	T	S 33	.203	CR	059	Э	rev	-	\mathfrak{H}	Current ve	ersion:	6.0.0	*
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the X symbols.													
Proposed change affects: UICC apps# ME X Radio Access Network Core Network X													
Title:	Э	★ Removing anti-replay requirement from Confidentiality clause											
Source:	9	€ SA	SA WG3										
Work ite	m code: 3	€ IM:	S-ASE	С						Date:	第 21	/11/2003	
	Duto: 00 E 1/11/2												
Category: $\#$ DRelease: $\#$ Rel-6Use one of the following categories:Use one of the following release F (correction)2(GSM Phase 2) A (corresponds to a correction in an earlier release)R96 (Release 1996) B (addition of feature),R97 (Release 1997) C (functional modification of feature)R98 (Release 1998) D (editorial modification)R99 (Release 1999)Detailed explanations of the above categories can be found in 3GPP $\frac{1}{2}$ Rel-5 (Release 5)Rel-6 (Release 6))))					
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Reason	for chang	ј е : Ж	not n	The TS requires anti-replay services in the confidentiality section where it does not naturally belong to. The requirement is already captured in more natural place in the TS.									
Summar	y of chan	ge: ₩	shou	The anti-replay requirement is removed from the confidentiality clause where it should not be specified. The requirement is already specified in the clause 6.3 under the Integrity requirements.									
Consear	uences if	æ	The	require	ment is d	defined	two tim	es w	hich i	s not nece	ssarv a	and can cr	eate.
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6.2 Confidentiality mechanisms

If the local policy in P-CSCF requires the use of IMS specific confidentiality protection mechanism between UE and P-CSCF, IPsec ESP as specified in [13] shall provide confidentiality protection of SIP signalling between the UE and the P-CSCF, protecting all SIP signalling messages at the IP level. IPSec ESP general concepts on Security Policy management, Security Associations and IP traffic processing as described in reference [14] shall also be considered. ESP confidentiality shall be applied in transport mode between UE and P-CSCF.

The method to set up ESP security associations (SAs) during the SIP registration procedure is specified in clause 7. As a result of an authenticated registration procedure, two pairs of unidirectional SAs between the UE and the P-CSCF all shared by TCP and UDP, shall be established in the P-CSCF and later in the UE. One SA pair is for traffic between a client port at the UE and a server port at the P-CSCF and the other SA is for traffic between a client port at the P-CSCF and a server port at the UE. For a detailed description of the establishment of these security associations see section 7.

The encryption key CK_{ESP} is the same for the two pairs of simultaneously established SAs. The encryption key CK_{ESP} is obtained from the key CK_{IM} established as a result of the AKA procedure, specified in clause 6.1, using a suitable key expansion function.

[Editors Note: This key expansion function depends on the ESP encryption algorithm and should be specified in Annex I but is FFS.]

The encryption key expansion on the user side is done in the UE. The encryption key expansion on the network side is done in the P-CSCF.

The anti-replay service shall be enabled in the UE and the P CSCF on all established SAs.