Tdoc #S3-030812

CHANGE REQUEST								
* TS	33.203	CR 059	жrev	<b>-</b> #	Current vers	6.0.0	器	
For <u>HELP</u> on us	sing this fo	rm, see bottom of	this page or	look at the	e pop-up text	t over the	mbols.	
Proposed change affects: UICC apps# ME X Radio Access Network Core Network X								
Title: ∺	Removin	Removing anti-replay requirement from Confidentiality clause						
Source: #	SA WG3	SA WG3						
Work item code: ₩	IMS-ASE	C			Date: ♯	21/11/2003		
					Use <u>one</u> of 2 e) R96	_ (		
C (functional modification of feature) D (editorial modification)  Detailed explanations of the above categories can be found in 3GPP TR 21.900.					R98 R99 Rel-4 Rel-5 Rel-6	(Release 1998, (Release 1999, (Release 4) (Release 5) (Release 6)	)	
Reason for change:   The TS requires anti-replay services in the cornot naturally belong to. The requirement is alreplace in the TS.								
Summary of chang	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.						
Consequences if not approved:		策 The requirement is defined two times which is not necessary and can creat unnecessary confusion.					reate	
	20 00							
Clauses affected:	第 6.2							
Other specs affected:	米 X X X	Test specification	ons	×				
Other comments:	ж —							

## 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.