

CHANGE REQUEST

⌘ **33.203 CR CRNum** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ TCP and UDP share same SA		
Source:	⌘ Nokia		
Work item code:	⌘ IMS-ASEC	Date:	⌘ 12/11/2002
Category:	⌘ F	Release:	⌘ Rel-5
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ TCP and UDP sharing (SP-020583) is approved in by SA#17. The clause 6.3 which mention the separate SA for each transport protocol should be changed.
Summary of change:	⌘ The brief description of SA establishment in clause 'Integrity mechanisms' is changed according to SP-020583.
Consequences if not approved:	⌘ Inconsistent in the same specification.

Clauses affected:	⌘ 6.3										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="text-align: center; width: 20px;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications	⌘
	Y	N									
		X									
	X										
	X										
		Test specifications									
		O&M Specifications									
Other comments:	⌘										

6.3 Integrity mechanisms

IPsec ESP as specified in reference [13] shall provide integrity 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 integrity 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 the registration procedure, ~~two a~~ pairs of unidirectional SAs between the UE and the P-CSCF, ~~one pair for~~ shared by TCP ~~and one pair for~~ and UDP, shall be simultaneously established ~~in the P-CSCF and later in the UE~~. ~~Each pair consists of an~~ One SA ~~is~~ for traffic from the UE to the P-CSCF (inbound SA at the P-CSCF) and an SA ~~is~~ for traffic from the P-CSCF to the UE (outbound SA at the P-CSCF).

The integrity key IK_{ESP} is the same for the ~~four~~ two simultaneously established SAs. The integrity key IK_{ESP} is obtained from the key IK_{IM} established as a result of the AKA procedure, specified in clause 6.1, using a suitable key expansion function. This key expansion function depends on the ESP integrity algorithm and is specified in Annex I of this specification.

The integrity key expansion on the user side is done in the UE. The integrity 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.