

CHANGE REQUEST

⌘ **33.203 CR CRNum** ⌘ rev **-** ⌘ Current version: **5.2.0** ⌘

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Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ The definition of the key to be used for HMAC-SHA1-96 within ESP		
Source:	⌘ Ericsson		
Work item code:	⌘ IMS-ASEC	Date:	⌘ July 10 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)	

Reason for change:	⌘ There are two reasons for the change: 1) Adopt the recommendation from ETSI SAGE 2) Create conformity with IETF RFC2104		
Summary of change:	⌘ Proposes how to expand IK from 128 bit to 160 bit by appending zeros to IK		
Consequences if not approved:	⌘ TS33.203 will not be inline with recommendation from ETSI SAGE. Furthermore TS33.203 will not follow the principles as specified in IETF RFC 2104		

Clauses affected:	⌘ Annex I		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘		

***** FIRST CHANGED SECTION *****

Annex I (normative): Key expansion functions for IPsec ESP

If the selected authentication algorithm is HMAC-MD5-96 then $IK_{ESP} = IK_{IM}$.

If the selected authentication algorithm is HMAC-SHA-1-96 then IK_{ESP} is obtained from IK_{IM} by appending ~~the 32~~
~~most significant bits~~32 zero bits of IK_{IM} to the end of IK_{IM} to create a 160-bit string.
