3GPP TSG SA WG3 (Security) meeting #11 Mainz, 22-24 February, 2000

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e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

CHANGE REQUEST Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.								
		33.102	CR	059		Current Versi	on: 3.3.1	
GSM (AA.BB) or 3G		↑ CR number as allocated by MCC support team						
list expected approval meeting # here for infor			X		strategic (for SMG use only)			
Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc Proposed change affects: (at least one should be marked with an X) The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc WE X UTRAN / Radio X Core Network X								
Source:	Ericsson					Date:	2000-02-17	
Subject:	Clarification	<mark>on when integrit</mark> y	y protect	ion is sta	rted			
Work item:	Security							
Category: FACO (only one category shall be marked with an X)	Correspond Addition of f Functional r	nodification of fe		rlier relea	x X	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
Reason for change:	A clarification is needed on when integrity protection is started and what procedures that are allowed without integrity protection. The integrity protection is started after that the RRC connection has been established and the network and MS has agreed upon the key(s) to be used. This implies e.g. that the initial L3 message (including e.g. the MS identity) that is sent to the CN can not be integrity protected.							
Clauses affected: 6.4.5								
Other specs affected:	Other 3G core Other GSM co specification MS test specification BSS test specification O&M specification	ons fications difications	-	 → List of 	CRs: CRs: CRs:			
Other comments:								

<----- double-click here for help and instructions on how to create a CR.

6.4.5 Security mode set-up procedure

This section describes one common procedure for both ciphering and integrity protection set-up. This procedure is mandatory. It is mandatory to start integrity protection of signalling messages by use of this procedure at each new signalling connection establishment between MS and MSC/VLR respective SGSN. The three exceptions when it is not mandatory to start integrity protection are:

- If the only purpose with the signalling connection establishment and the only result is periodic location registration, i.e. no change of any registration information.
- If there is no MS-MSC/VLR (or MS-SGSN) signalling after the initial L3 signalling message sent from MS to MSC/VLR (or SGSN), i.e. in the case of deactivation indication sent from the MS followed by connection release.
- If the only MS-MSC/VLR (or MS-SGSN) signalling after the initial L3 signalling message sent from MS to
 MSC/VLR (or SGSN), and possible user identity request and authentication (see below), is a reject signalling
 message followed by a connection release.

When the integrity protection shall be started, the only procedures between MS and MSC/VLR respective SGSN that are allowed after the initial connection request (i.e. the initial Layer 3 message sent to MSC/VLR or SGSN) and before the security mode set-up procedure are the following:

- Identification by a permanent identity (i.e. request for IMSI), and
- Authentication and key agreement

The message sequence flow below describes the information transfer at initial connection establishment, possible authentication and start of integrity protection and possible ciphering.

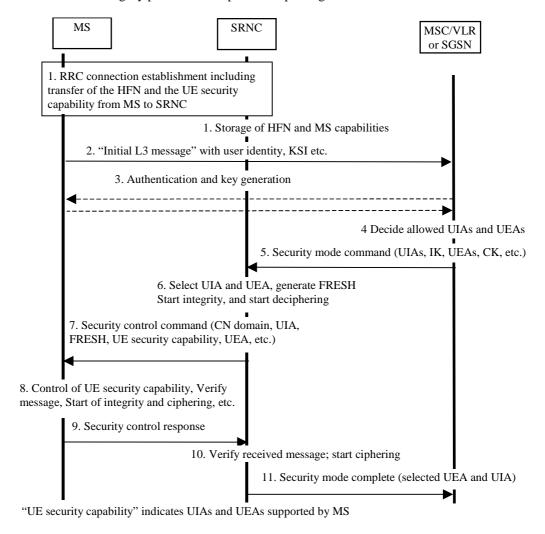


Figure 14: Local authentication and connection set-up

3G TS 33.102 V3.3.1 (2000-01)