3G 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	XX	Current Vers	sion: 3.3.1	
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Source:	Ericsson				Date	2000-01-17	
Subject:	Clarification on enhanced Distribution of authentication data within one serving network domain						
3G Work item: Security							
(only one category shall be marked (F Correction A Corresponds to a correction in a 2G specification B Addition of feature C Functional modification of feature D Editorial modification						
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6.3.4 Distribution of IMSI and temporary authentication data within one serving network domain

The purpose of this procedure is to provide a newly visited MSC/VLR or SGSN with temporary authentication data from a previously visited MSC/VLR or SGSN within the same serving network domain.

The procedure is shown in Figure 11.

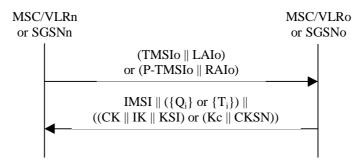


Figure 11: Distribution of IMSI and temporary authentication data within one serving network domain

The procedure shall be invoked by the newly visited MSC/VLRn (resp. SGSNn) after the receipt of a location update request (resp. routing area update request) from the user wherein the user is identified by means of a temporary user identity TMSIo (resp. P-TMSIo) and the location area identity LAIo (resp. routing area identity RAIo) under the jurisdiction of a previously visited MSC/VLRo or SGSNo that belongs to the same serving network domain as the newly visited MSC/VLRn or SGSNn.

The protocol steps are as follows:

- a) The MSC/VLRn (resp. SGSNn) sends a *user identity request* to the MSC/VLRo (or SGSNo), this message contains TMSIo and LAIo (resp. P-TMSIo and RAIo).
- b) The MSC/VLRo (resp. SGSNo) searches the user data in the database.

If the user is found, the MSC/VLRo (resp. SGSNo) shall send a user identity response back that

- i) shall include the IMSI,
- ii) may include a number of unused authentication vectors (quintets or triplets) and
- iii) may include the current security context data: CK, IK and KSI (UMTS) or Kc and CKSN (GSM).

The MSC/VLRo or SGSNo subsequently deletes the authentication vectors which have been sent and the data elements on the current security context.

If the user cannot be identified the MSC/VLRo or SGSNo shall send a *user identity response* indicating that the user identity cannot be retrieved.

c) If the MSC/VLRn or SGSNn receives a *user identity response* with an IMSI, it creates an entry and stores any authentication vectors and any data on the current security context that may be included. Note that if a different security context is required at MSC/VLRn (resp. SGSNn), the information regarding current security context data received from MSC/VLRo (resp. SGSNo) can not be used to authenticate the subscriber using local authentication. A new authentication and key agreement procedure shall be performed in this case.

If the MSC/VLRn or SGSNn receives a *user identity response* indicating that the user could not be identified, it shall initiate the user identification procedure described in 6.2.