Technical Specification Group Services and System Aspects
Meeting #7,   *S3-000076*

TSG SA WG3 #10, Antwerp 19-21 January 2000

DRAFT 3G CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

TS 33.102 CR **049**   Current Version: V3.3.1

3G specification number ↑   *↑ CR number as allocated by 3G support team*

For submission to TSG   SA#7   for approval   **X**   *(only one box should*
list TSG meeting no. here ↑   for information   *be marked with an X)*

Form: 3G CR cover sheet, version 1.0   The latest version of this form is available from: ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf

Proposed change affects: USIM ☐   ME ☐   UTRAN ☐   Core Network **X**
(at least one should be marked with an X)

Source:	S3	**Date:**	2000-01-21

Subject:	Authentication failure reporting

3G Work item:	Security

Category: F   Correction   **X**
                  A   Corresponds to a correction in a 2G specification
(only one category   B   Addition of feature
shall be marked   C   Functional modification of feature
with an X)   D   Editorial modification

Reason for change:	The *Authentication Failure Report* from the SGSN/VLR does not need to be acknowledged by the HLR and consequently the acknowledge should be removed.

Clauses affected:	6.3.6

Other specs affected:	Other 3G core specifications	☐	→ List of CRs:	
	Other 2G core specifications	☐	→ List of CRs:	
	MS test specifications	☐	→ List of CRs:	
	BSS test specifications	☐	→ List of CRs:	
	O&M specifications	☐	→ List of CRs:	

Other comments:	This CR is the result of a request from N2 to consider removing the acknowledge part of the *Authentication Failure Report* mechanism.

6.3.6 Reporting authentication failures from the SGSN/VLR to the HLR

The purpose of this procedure is to provide a mechanism for reporting authentication failures from the serving environment back to the home environment.

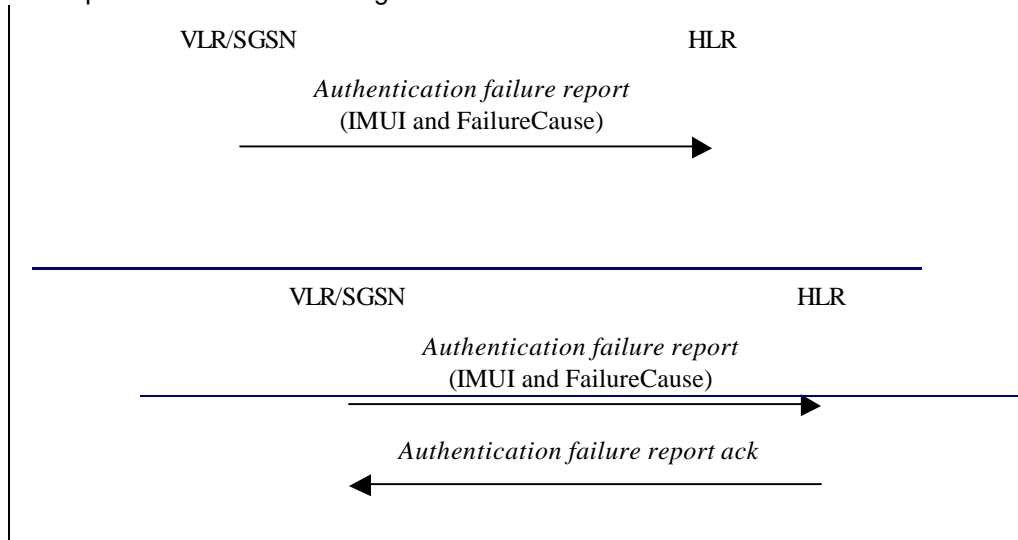The procedure is shown in Figure 13.

VLR/SGSN   HLR

Authentication failure report
(IMUI and FailureCause)

VLR/SGSN   HLR

Authentication failure report
(IMUI and FailureCause)

Authentication failure report ack

Figure 13: Reporting authentication failure from VLR/SGSN to HLR

The procedure is invoked by the serving network VLR/SGSN when the authentication procedure fails. The *authentication failure report* shall contain the subscriber identity and a failure cause code. The possible failure causes are either that the network signature was wrong or that the user response was wrong.

When the home environment receives the *authentication failure report* it shall respond by an acknowledge back to the serving network. The HE may decide to cancel the location of the user after receiving an *authentication failure report*.