

3GPP TSG SA WG3 Security — S3#10
19-21 January, 2000
Antwerp, Belgium

S3-000091

From: TSG S3

To: TSG N2

– for information –

LS on Authentication Failure Report

During their meeting in Antwerp, Jan 19-21, N2's reaction on S3's CR on *Authentication Failure Report* was considered. Concerns regarding the need of an acknowledgement of authentication failure reporting have been received. After a short discussion in S3 the issue was seen as a mis-understanding between the groups. A new CR was approved (TD S3-000076) removing the acknowledgement part of the *Authentication Failure Report* mechanism.

Attached: S3-000076

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**
list TSG meeting no. here ↑

for approval
for information

X

(only one box should
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:

(at least one should be marked with an X)

USIM

ME

UTRAN

Core Network

Source:

S3

Date:

2000-01-21

Subject:

Authentication failure reporting

3G Work item:

Security

Category:

(only one category
shall be marked
with an X)

- F Correction
- A Corresponds to a correction in a 2G specification
- B Addition of feature
- C Functional modification of feature
- D Editorial modification

X

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.

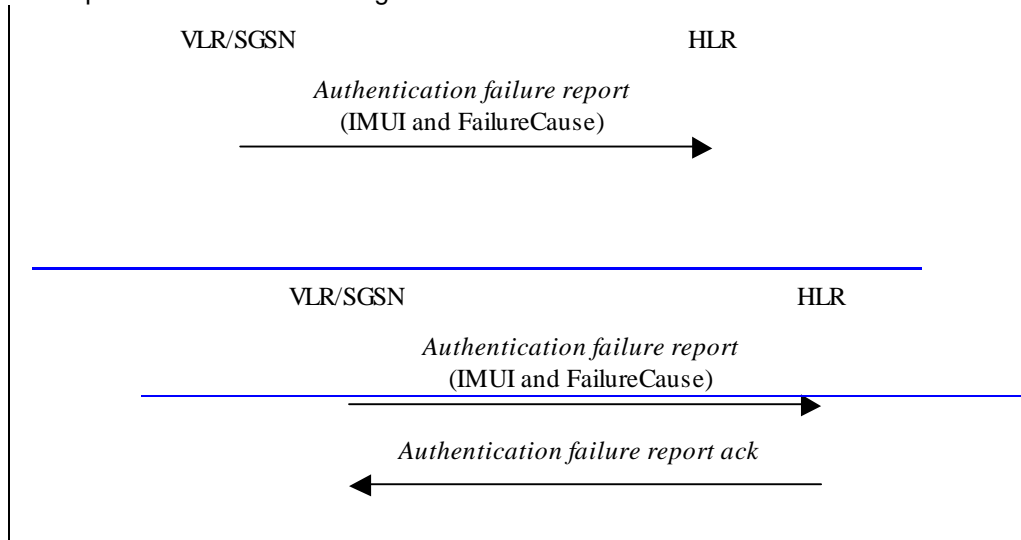


Figure 13: Reporting authentication failure from VLR/SGSN to HLR

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*.