Source: SA WG3

Title: 1 CR to 33.102: Removing the list of access type codes from

authentication failure report (Rel-4)

Document for: Approval

Agenda Item: 7.3.3

Spec	CR	Rev	Phase	Cat	Subject	Version- Current	Version -New	Doc-2nd- Level
33.102	155	1	Rel-4	F	Removing the list of access type codes from	4.1.0	4.2.0	S3-010394
					authentication failure report			

CHANGE REQUEST											
*	33.102	CR 155	₩ rev	1 **	Current vers	4.1.0 [#]					
For HELP on using this form, see bottom of this page or look at the pop-up text over the % symbols.											
Proposed change affects: (U)SIM											
Title: ૠ	Removin	g the list of acce	ess type code	s from aut	thentication fai	lure report					
Source: #	S3										
Work item code: ₩	SEC1				Date: ♯	27-06-01					
Category: 第	F				Release: ೫	REL-4					
	F (es A (co B (Ad C (Fu D (Ed Detailed ex	the following cate sential correction) rresponds to a co Idition of feature), unctional modification with the first services splanations of the a 3GPP TR 21.900	rrection in an e tion of feature) n) above categor		2	the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)					
Reason for change	that are To a	may be used in several access to avoid updating the austive list is rer	CS-domain (types that exine list when n	e.g. locations of the second s	on update). In PS-domain (e.g s type codes n	t can only have values addition to these, there g. routing area update) eed to be added, the and kept only in TS					
Summary of change: Allowing the use of all possible access types in authentication failure report											
Consequences if not approved:		d detection capa ted always wher				ne list is needed to be					
Clauses affected:	% 6.3.6										
Other specs affected:	T	Other core specification Other core specification Other core specification	ıs	¥ 29.002	2						
Other comments:	器 Rela	ated to CR 29.00	02-302								

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.

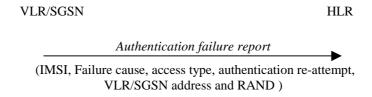


Figure 13: Reporting authentication failure from VLR/SGSN to HLR

The procedure is invoked by the serving network VLR/SGSN when the authentication procedure fails. The *authentication failure report* shall contain:

- 1. Subscriber identity;
- 2. Failure cause code. The possible failure causes are either that the network signature was wrong or that the user response was wrong;
- 3. Access type. This indicates the type of access that initiated the authentication procedure if the authentication procedure was initiated due to a call set up, an emergency call, a location updating, a supplementary service procedure or a short message transfer;
- 4. Authentication re-attempt. This indicates whether the failure was produced in a normal authentication attempt or it was due to an authentication reattempt (there was a previous unsuccessful authentication);
- 5. VLR/SGSN address;
- 6. RAND. This number uniquely identifies the specific AV that failed authentication.

The HE may decide to cancel the location of the user after receiving an *authentication failure report* and may store the received data so that further processing to detect possible fraud situations could be performed.