Source:	**S3**
Title:	**A mechanism for reporting authentication failures from VLR/SGSN to HLR**
Agenda item:	**4.2**
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Title:	A mechanism for reporting authentication failures from VLR/SGSN to HLR

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S3 wants to inform N2 that a new mechanism for reporting authentication failure from VLR/SGSN to HLR is being specified in TS 33.102.

The mechanism itself is quite simple and only consists of an *authentication failure report* from VLR or SGSN to HLR. HLR will then acknowledge the *authentication failure report*.

The *authentication failure report* will need to contain the user identity (IMSI) and a failure cause code information element. The only two codes identified so far is:

- wrong network signature
- wrong user response

S3 recognises that this request comes very late for R99 and we apologise if this causes unnecessary problems for N2, but we only very recently became aware that UMTS entirely lacks a mechanism for reporting authentication failures from the serving network back to the home environment.

Since authentication failures may be an indication of an active attack against the networks, it is important that the home environment is informed about authentication failures. S3 therefore considers it very important that this mechanism is included in R99.

Please find attached the recent S3 agreed CR 33.102-040.