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**3GPP TSG-CN WG4
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Tdoc 3GPP N4-000789

Source: TSG-CN4¹

Title: Liaison statement on Positive Authentication Reporting

To: TSG-SA WG3, TSG-CN

TSG CN WG4 thanks TSG SA WG3 for their liaison statement (S3-000499) on Positive Authentication Reporting.

N4 does not have a clear view on whether this functionality is required for R99 or for R00. Because this is clearly a major functional change, N4 assumes that this will be part of R00.

The following questions were raised during the N4 meeting:

- What protocol would be used between 3GPP VLR/SGSNs and 3GPP2 HLRs? Currently the protocol is not defined in the specifications
- S3 advises that positive authentication report is mandatory during the first location updating for 3GPP2 subscribers roaming to the 3GPP networks. In this case how does the VLR/SGSN know that the subscriber is a 3GPP2 subscriber? This information is needed if the VLR/SGSN does not want to report positive authentication for subscribers not from the 3GPP2 networks.
- How can the HLR request authentication report from the VLR/SGSN?

S3 liaison also included a proposal for modification of TS 33.102 to reflect generic authentication reporting mechanism. N4 recommends the separation of the Authentication Failure and Positive Authentication Reporting because Authentication Failure Report is already implemented in the N4 specification.

Regarding the question about the impact on network performance, N4 would also like to point out that

1. The requirement to perform authentication reporting only at the first registration as a means to save signalling is not applicable to 3GPP networks, since there is no distinction between first and subsequent location updates
2. Roaming subscribers normally change their serving network quite often and that will noticeably increase the signalling traffic if the Positive Authentication Reporting is used.

N4 ask advise from CN as to which work item this standardisation belongs.

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