3GPP TSG_CN   **Tdoc NP-000533**
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

Title:	**LS on Positive Authentication Reporting**
Source:	**TSG_CN**
To:	**TSG_SA WG3**
Cc:	**TSG_CN WG4**

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TSG CN received a Liaison Statement from CN4 on the issue of "*Positive Authentication Reporting*" which was also sent to SA3. This Liaison Statement contains a number of detailed questions which need to be answered by SA3. Unfortunately, a response Liaison Statement has not yet been received from SA3.

The TSG CN Plenary discussed the issue to which Work Item this standardisation of "Positive Authentication Reporting" (PAR) will belong. TSG CN understood that the PAR would require substantial standardisation effort and an S3 Work Item would need to be created. This will ensure a proper management of the PAR standardisation.

TSG CN also noted the possible impacts on the network performance caused by this network feature and felt that it is too premature to make a judgement on the network performance without the response of SA3 experts on the detailed questions. TSG CN decided that further study on the impacts of the network performance are required to ensure full understanding of this network feature. TSG CN noted that the companies driving this network feature are not present in the CN WGs and therefore concluded that such a feasibility study as part of the Work Item can be best performed within SA3. CN 4 would be pleased to provide any necessary consultation.

2. Actions:

TSG CN asks SA3 to provide answers to the detailed questions from CN4 as soon as possible.
TSG CN asks SA3 to provide a more detailed description of the "*Positive Authentication Reporting*" network capability.

TSG CN advises SA3 to perform a feasibility study on the network performance impacts of "*Positive Authentication Reporting*" and that this should be conducted under a defined SA3 Work Item. CN4 would provide any necessary consultancy as required by S3 on this feasibility study.

TSG CN stimulates close co-operation between SA3 and CN4 to progress this "*Positive Authentication Reporting*" more effectively and rapidly.

3. Attachments:

NP-000416:   Original LS from N4 on Positive Authentication Reporting (N4-000789)

3GPP TSG-CN WG4   **Tdoc 3GPP N4-000789**
Seattle (WA), USA
28 August – 1 September 2000

Source: **TSG-CN4**[1]
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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