3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010480*
26 February 2001 to 01 March 2001,
Sophia France.

Title:	Re-transmission of authentication requests
Reference LS (If available)	---
Source:	**[CN1]**
TO [1]**:**	**SA3**
Cc:	---
WI:	**Security**

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Attachments: **N1-010477**
(Please list documents numbers to be attached)

Date: **01 March 01**

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During the last two meetings, CN1#15 and CN1#16, CN1 discussed the possibility to implement the CR 33.102-130 (S3-000725), "Re-transmission of authentication request using the same quintet", in the R'99 version of TS 24.008.

- Some delegates stated that a SIM-based solution would be more appropriate. Some delegates were also concerned that an implementation of the feature as specified by SA3 would delay the availability of standard compliant UMTS R'99 terminals.

- Other delegates were concerned that if the feature was not supported, this would greatly reduce the efficiency and grade of service of the whole system, due to a higher number of synchronisation failures and higher consumption of security quintets.

- There was a consensus that the most critical procedure for which re-transmission was expected to occur with the highest probability is the UMTS Authentication procedure via the Gb interface.

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[1] Please write any action required from the groups in a clear way.

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As a compromise between the points of view expressed by different delegates, CN1 agreed the change request to TS 24.008 that is attached to this liaison statement for R'99, and an identical CR for Rel-4.

CN1 hope that the agreed solution is acceptable to SA3, and kindly ask SA3 to adapt their specification TS 33.102 accordingly.

The following MM and GMM state descriptions from TS 24.008 are provided in order to help SA3 with the interpretation of the attached CR:

4.1.2.1   MM sublayer states in the mobile station

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4.1.2.1.1   Main states

  0   NULL

   The mobile station is inactive (e.g. power down). Important parameters are stored. Only manual action by the user may transfer the MM sublayer to another state.

   ....

  19. MM IDLE

   There is no MM procedure running and no RR connection exists except that a local MM context may exist when the RR sublayer is in Group Receive mode. This is a compound state, and the actual behaviour of the mobile station to Connection Management requests is determined by the actual substate as described hereafter.

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4.1.3.1   GMM states in the MS

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4.1.3.1.1   Main states

4.1.3.1.1.1   GMM-NULL

The GPRS capability is disabled in the MS. No GPRS mobility management function shall be performed in this state.

4.1.3.1.1.2   GMM-DEREGISTERED

The GPRS capability has been enabled in the MS, but no GMM context has been established. In this state, the MS may establish a GMM context by starting the GPRS attach or combined GPRS attach procedure.