
TSG-RAN Working Group 2 Meeting #29
Gyeongju, Korea, 13- 17 May 2002

R2-021390

Title: LS on Interpretation of UEA0
Response to:
Release: R'99
Work Item:

Source: RAN2
To: S3
Cc:

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Attachments:

1. Overall Description:

RAN2 have discussed the use of the algorithm UEA0 in the security capabilities sent from the UE at RRC establishment. RAN2 asks S3 to provide guidance on the following questions:

- 1) What should the interpretation of the UEA0 bit as indicated in the UE capability be: At least two alternative interpretations have been discussed in RAN2:
 - a) Unciphered connections are or are not accepted by the UE. This implies that the RNC should not set-up unciphered connections to the UE during this RRC connection if the UE does not indicate acceptance of an unciphered connection.
 - b) Algorithm UEA0 is or is not implemented by the UE (UE Hardware support). A consequence would be that unciphered RRC connection could always be established by the network, and it would be up to the visibility feature to indicate this to the user (or application) for proper action (e.g. clear the call if unciphered connections are not desired)

Note: It should be noted that in RAN2 specifications there are two ways of starting unciphered connections. One way is to not start ciphering and the other is to start ciphering with the indicated algorithm set to UEA0.

- 2) If the use of UEA0 bit is as described in b), RAN2 considers making UEA0 mandatory. Does SA3 have a comment on this?
- 3) If the use of UEA0 bit is as described in a), RAN2 has also discussed how the setting of this UE capability is intended to be controlled. The question arises if this capability is intended to be controlled by the user, by settings in the USIM or by other means.
- 4) If the use of UEA0 bit is as described in a) , then how is it intended to be used in case of 3G->2G handover and for emergency calls.

2. Actions:

To S3 group.

ACTION: RAN2 asks S3 to clarify the intended use of the UEA0 bit in the UE capabilities according to the questions above. An immediate reply would be welcome.

3. Date of Next RAN2 Meetings:

RAN2_29	13 – 17 May 2002	Gyeongju, Korea.
RAN2_30	24 – 28 June 2002	Torino, Italy.
RAN2_31	19 – 23 August 2002	tbd, Sweden.