

(R3-012694, to TSG-RAN) Response to LS (G2-010203) on GERAN architecture and impacts on the lu-cs interface

Title: Response to LS: GERAN architecture and impacts on the lu-cs interface

Source: TSG RAN WG3

TO: TSG RAN, TSG GERAN WG2, TSG CN1, TSG SA4

Cc: TSG GERAN,

Contact Person:

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1. Overall Description:

RAN WG3 thanks GERAN WG2 on their LS "GERAN architecture and impacts on the lu-cs interface "(G2-010203)", and would like to inform GERAN WG2 of the outcome of the discussion on this subject in RAN WG3.

1.1. Comments regarding the possible (but not agreed) solution:

a) Regarding the second bullet point:

It is RAN3 understanding that an intra-BSC handover with codec change cannot be avoided completely. Therefore in that case an intra MSC Relocation procedure will have to be triggered to setup the user plane correctly.

b) Regarding the last bullet point :

If the first solution, where the required MS capabilities are transferred within a container in RANAP from the MSC to the GERAN BSC is selected, RAN3 assumes that the MS capability information will have to be provided to the target BSC. Which would extend the list of affected RANAP messages by RELOCATION REQUEST.

1.2. Answer to questions directed to RAN3

- Question: How is it possible to take the transceiver capabilities into account during call setup and handover ? The approach to introduce the GERAN Classmark concept requires the exchange of GERAN specific information between the GERAN BSC and the MSC. Is it acceptable to transfer this information inside containers in the mentioned RANAP messages?

Answer: RAN3 don't see any technical problem to introduce a transparent container including GERAN specific information within the mentioned RANAP messages.

- Question: How is it possible to identify the ACS within the BSC, if an adaptive codec type was negotiated by MSC?

Answer: It is the understanding of RAN3 that once you have information of the negotiated codec type within the RAN you can uniquely derive the codec mode from the total amount of bits given in the respective RAB subflow SDU sizes per RAB Subflow combination.

2. Actions to TSG RAN, TSG GERAN WG2

Some TSG RAN WG 3 delegates raised concerns with regards to specifying a GERAN specific container in RANAP, as this might be a problem for 3GPP from TTC/ARIB members to be mandated to treat GERAN related information in their standards.

Therefore TSG RAN WG3 would like to ask TSG GERAN WG2 in which specification it is intended to specify the content of the GERAN specific container.

TSG RAN WG3 would also like to ask TSG RAN to consider this issue and to give some guidance on that issue or to provide information on possibly already established specification rules.

3. Date of next RAN3 Meetings

RAN3_24: 22nd-26th October 2001 New York.