TSG-RAN Meeting #14   *RP-010891*
Kyoto, Japan, 11 - 15 December 2001

(R3-013617, to TSG-RAN) Response to LS (G2-010484) on Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS

Title:	Response about proposed changes to 25.413 R5 for GERAN Iu mode LCS
Source:	RAN3
To:	**TSG RAN, TSG GERAN, TSG GERAN WG2**
Cc:	SA2
Response to:	LS (R3-013183_G2-010484) on "Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS" from GERAN WG2.

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1. Overall Description:

TSG-RAN WG3 thanks TSG-GERAN WG2 for their LS G2-010484 (R3-013183) "Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS".

RAN WG3 would like to report in this liaison that the request from GERAN WG2 was addressed by the approval in principle of the Release 5 CR [R3-013566] attached in this LS.

Furthermore before the handling of that corresponding CR, a discussion paper about the "Handling of GERAN specific modifications needed in UTRAN" [R3-013331] was discussed and approved by RAN3.
Therefore RAN WG3 would like also to report to TSG RAN and TSG GERAN the agreement reached based on that contribution:
   In response to position of ARIB and TTC [RP-010563], the work split between TSG-RAN and TSG-GERAN was discussed in TSG-RAN#13 meeting. However those discussions were based on the introduction of a new interface Iur-g in GERAN based on actual UTRAN interface Iur. Therefore following the GERAN WG2 request in their LS, RAN3 discussed based on [R3-013331] the possible handling of GERAN specific modification against existing RAN3 specifications. The following was agreed:
   -   GERAN provides the content and RAN3 would do the actual work (i.e. the official CRs against RAN3 specifications, as RAN3 has the fully knowledge of how to implement them e.g. ASN.1 syntax, …).
   -   For each GERAN related modifications that are intended only for GERAN, some adequate explanations in adequate place(s) shall be added to clarify that those are intended only for GERAN.
The application of the second bullet can already be seen in the attached CR [R3-013566], section 9.2.3.19.

2. Actions:

To GERAN WG2,

ACTION: TSG RAN3 asks TSG GERAN WG2 to kindly review the RAN3 CR and would be pleased to receive any comments if that CR does not totally fulfil their request.

To TSG RAN and TSG GERAN,

ACTION: TSG RAN3 asks TSG RAN and TSG GERAN to kindly take into account the above RAN3 decisions on the handling of GERAN specific modifications against RAN3 specifications.

3. Date of Next RAN3 and other relevant Meetings:

TSG RAN#14	11th – 14th December 2001	Kyoto, Japan.
RAN WG3#26	**14th – 18th January 2002**	**Voesendorf (Vienna), Austria.**
RAN WG3#27	**18th – 22nd February 2002**	**Orlando, FL, USA.**
TSG RAN#15	05th – 08th March 2002	Tbd, Korea.

4. Attachments:

- R3(#25)-013331 [Discussion paper on "Handling of GERAN specific modifications needed in UTRAN"].
- R3(#25)-013566 [CR against 25.413 R5 for GERAN LCS].
- R3(#25)-013183 [LS on "Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS" from GERAN WG2].

R3-013566_CRrev1_
25413_REL5_GERAN

R3-013331_Handling
_of_GERAN_specific_

R3-013183_G2-0104
84.zip

5. References:

[R3-013566]   R3-013566, CR against 25.413 R5 for GERAN LCS, "Signalling enhancements for GERAN Iu Mode LCS", (NOKIA), TSG-RAN3#25

[RP-010563]   RP-010563, "Comment on GERAN related work", (ARIB/TTC), TSG-RAN#13

[R3-013331]   Discussion paper on "Handling of GERAN specific modifications needed in UTRAN" (NOKIA), TSG-RAN3#25

Source: TSG GERAN WG2   1 (1)

3GPP TSG-RAN WG3 Meeting #25   *Tdoc R3-013183*
Makuhari, Japan, November 26th-30th, 2001

Title: Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS

To: TSG RAN WG3

cc: TSG SA2

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TSG GERAN has selected an architecture which connects the GSM/EDGE RAN to the Core Network via the Iu interface. As in UTRAN, GERAN Iu mode expects the CN to access Location Services by the procedures from RANAP (Location Reporting Control, Location Report, and Location Related Data).

In review of 25.413 v4.2.0, TSG GERAN WG2 has identified 3 places where enhancements to the existing RANAP signaling are required so that RANAP will support GERAN Iu mode LCS:
1. The Location Related Data Request message should allow the CN to request Dedicated Mobile-Assisted E-OTD Assistance Data and Dedicated Mobile-Based E-OTD Assistance Data be delivered to the mobile station, and also allow the CN to request that Deciphering Keys for E-OTD be delivered to the CN.
2. The Client Type IE in the Request Type Element of the Location Reporting Control message should allow additional Client Types to be specified (PLMN Operator - broadcast services, PLMN Operator - O&M, PLMN Operator - anonymous statistics, PLMN Operator - Target MS service support). These Client Types are supported in GERAN A/Gb mode LCS, and are needed in GERAN Iu mode LCS.
3. The Cause IE in the Location Report message should allow the RAN to return an indication of Congestion.

TSG GERAN WG2 kindly asks TSG RAN WG3 to approve these additions to 25.413 for Release 5.

Source:	**Nokia**
Title:	**Handling of GERAN specific modifications needed in UTRAN**
Agenda Item:	**plenary 4 (following LS R3-013183 Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS) or 5.4**
Document for:	**Discussion & Approval**

1. INTRODUCTION

During RAN3#23 ARIB/TTC raised some concerns that were stated in LS [RP-010501]. In response to position of ARIB and TTC [RP-010563], the work split between TSG-RAN and TSG-GERAN was discussed in TSG-RAN#13 meeting. There was broad agreement, but it was decided to discuss the input document at the PCG/OP meeting also. Meanwhile GERAN WG2bis in their meeting agreed to ask RAN3 for updates to RANAP [25.413] to support GERAN Iu mode LCS (incoming LS in [R3-013183/G2-010484]) in Release 5.

2. DISCUSSION

Nokia provided a CR [R3-013326] against RANAP Release 5 in order to answer GERAN request. However Nokia would like to discuss and agree on RAN3 view, guidelines and rules for adding GERAN related content to RAN3 specifications.

2.1 Organization of the work

In TSG-RAN#13 meeting, TSG-RAN stated about working procedures that "TSG-GERAN would provide the necessary CRs, but that TSG-RAN WG3 would review them. It was also clarified that interoperability between two 2G systems was internal to TSG-GERAN, and that interoperability between 2G and 3G systems would cause TSG-RAN WGs to review work done by TSG-GERAN".

However those statements were referring to the introduction of a new interface Iur-g in GERAN based on actual UTRAN interface Iur. GERAN will also re-use the UTRAN interface Iu and then RANAP specifications. That's why RAN3 will have to handle more and more GERAN related modification to RAN3 specifications. Furthermore GERAN is not obviously the responsible group for UTRAN specifications and they might not have yet the complete knowledge of how UTRAN specifications are built (i.e. in terms of rules, section relationship, error handling, ASN.1 encoding). Therefore Nokia thinks that, as RAN3 is in charge all the time of RAN3 specifications, we shall do the actual work (i.e. the official CRs) based on GERAN content, in order to keep the changes as small as possible, but clear enough to satisfy GERAN and UTRAN requirements.

2.2 Modifications of the specifications

As they stated in [RP-010563], ARIB/TTC has no requirements to produce standards for GERAN in Japan and then interworking between UTRAN and GERAN is also out of its interests. Therefore Nokia sees a clear need of some disclaimer that restricts, if required, GERAN specific modifications (e.g. new features, behaviours, IEs, values, …). That restriction shall be introduced as suitable as possible depending on what the modifications affect. For example, a kind of generic wording like "In GERAN Iu mode case" may be added in procedure text, or in the semantic description in the tabular section.

However if GERAN introduces additions that could apply also to UTRAN or if they corrects wrong UTRAN handling, those modifications will be more than welcome without any disclaimer or restrictions.

3. PROPOSAL

It is proposed to agree on the following guidelines/rules when RAN3 has to treat GERAN related modifications to RAN3 specifications:

- GERAN provides the content and RAN3 would do the actual work (i.e. the official CRs).

- For each GERAN related modifications that are intended only for GERAN, some adequate explanations in adequate place(s) shall be added to clarify that those are intended only for GERAN.

4. REFERENCES

[RP-010563]	RP-010563, "Comment on GERAN related work", (ARIB/TTC), TSG-RAN#13
[25.413]	3GPP TS 25.413: "UTRAN Iu Interface: RANAP Signalling".
[R3-013183/G2-010484]	R3-013183/G2-010484, "Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS", incoming LS (GERAN2).
[R3-013326]	R3-013326, "Signalling enhancements for GERAN Iu Mode LCS", CR Rel5 (Nokia)