

3GPP TSG SA #14

SP-010747



Kyoto, December 17th -- 20th 2001

TSG RAN #14 meeting Report

Source TSG RAN Chairman



A GLOBAL INITIATIVE

TSG RAN #14 Report



- **Release 99 and Release 4**
 - Number of CRs on Release '99:
 - 237 CRs approved. Most of them were agreed to clarify and hence avoid misinterpretation. This activity shall be limited for the next period.
 - Several CRs on Release 4 only:
 - 60 CRs approved.
 - Several CRs on Release 5 only:
 - 15 CRs approved. These include completion of the optional support of SMLC RNC interface for Assisted GPS.

A GLOBAL INITIATIVE

TSG RAN #14 Report



- **RELEASE '99 and RELEASE 4 (Continued)**
 - Total number of CRs in RAN including Category A:
 - 575 CRs agreed
 - Debate took place on review of Release '99
 - No agreement reached but contributions can be discussed in WGs when provided.
 - UE testing (two levels) issue was also debated.
 - Proposal to create two TRs on error discovery agreed. It was agreed that Isolated Impact analysis shall be more elaborated for each of the CRs. If this was felt not properly done then CRs will be rejected.

A GLOBAL INITIATIVE

TSG RAN#14 Report



- **Release 99 and Release 4 (continued)**
 - Completing UE positioning was agreed to be of high priority and hence proposals for work on new methods were rejected pending completion of the work at the Working group level.

A GLOBAL INITIATIVE

TSG RAN #14 Report

- **RELEASE 5 & 6**
 - Work on Release 5 is continuing
 - It is foreseen that HSDPA will be finalised in due time (March 02) for inclusion in the Release 5 and also inclusion in the ITU-R M.1457 update.
 - IP Transport in the UTRAN: main problem was solved without votes at this meeting. The choice between M3UA and SUA has been made in favour of M3UA noting that SUA evolution will be reviewed in the time line of Release 6.
 - UMTS 1800 and 1900 are now finalised.

TSG RAN #14 Report

- **RELEASE 5 & 6 (continued)**
 - One workshop with 3GPP2 was held in New Brunswick (NJ-USA) to study possible harmonisation on HSDPA together with 1 EX EV DO and 1 EX EV DV. Due to the level of completion of these items it was felt difficult to re-open the issue. However for future work it was agreed to work together on:
 - Channel Model definition
 - Traffic models
 - Definition of harmonised requirement for UE when defining new functionality
- See Annex 1

TSG RAN #14 Report

- **RELEASE 5 & 6 (continued)**
 - For this purpose it was agreed to have co-ordination at the leaders level before establishing official liaison while increasing the knowledge on the way of working from each other. A review meeting will take place on the 28th of June 2002 between TSG RAN, RAN WG1, RAN WG2, RAN WG4 and 3GPP2 TSG C.

TSG RAN #14 Report

- **RELEASE 5 & 6 (continued)**
 - Careful review of work items took place resulting in the split of some of them in the UE part and Network part allowing faster introduction of the part dealing in the UE and then completing the network part when more complex at a later stage.
 - New Work agreed at TSG RAN #13
 - Work/Study Items
 - WI "Improvement of RRM across RNS and RNS/BSS " (RP-010947)
[R3; for TSG-RAN #18]
 - WI "Beamforming enhancements" (RP-010953)
[R1; for TSG-RAN #16]

TSG RAN 14 Report



- **Release 5 & 6 (continued)**
 - WI "Beamforming requirements for UE" (RP-010950)
[R1; for TSG-RAN #14 and finished]
 - WI "Support of Site Selection Diversity Transmission in UTRAN" (RP-010951)
[R1; for TSG-RAN #16]
 - SI "Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD" (RP-010929)
[R4, for TSG-RAN #15]

A GLOBAL INITIATIVE

TSG RAN 14 Report



- **Release 5 & 6 (continued)**
 - Confirmation of WI "Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN" (RP-010812) based on input received from TSG SA WG1 and WG2 [R2; for TSG-RAN #17]
 - Several WI were proposed to improve LCS. Due to difficulties in completing the current work on this issue it was felt preferable to complete the current work before accepting any new work.
- All other work items have been reviewed and completion dates were updated when necessary. New dates will be provided in the new version of the Work plan.

TSG RAN#14 Report



- **Release 5 & 6 (continued)**

A WI sheet was presented in terms of feasibility study for new modulation technique (OFDM). This was done in advance in order to allow discussion at the PCG to review the scope of the 3GPP project.

A GLOBAL INITIATIVE

TSG RAN#14 Report

- Other issues (attachment to this report)
 - LS to ITU-T on AAL2 Signalling (RP-010890) for endorsement
 - LS to TSG SA WG2 for handling changes due to GERAN Iu mode (RP-010891) which are requesting new specific messages is provided for information. This is to ensure that the answer be provided in a timely manner so that it can be taken into account during the next TSG RAN WG3 meeting. The meeting are unfortunately taking place at the same date but one in Orlando while the other one is in Phoenix.
 - Three other LSs are provided as independent documents

Future meetings TSG-RAN



Meeting	Date	Host	Location
RAN#15	05 - 08 March 2002	TTA	Jeju-do , Korea
RAN#16	04 - 07 June 2002	Motorola	Marco Island, FL, USA
RAN#17	03 - 06 September 2002	Alcatel	Biarritz, France
RAN#18	03 - 06 December 2002	North American Friends of 3GPP	New Orleans, LA, USA
RAN#19	11 - 14 March 2003	UK Friends of 3GPP	Jersey, Channel Islands (British Isles)
RAN#20	10 - 13 June 2003	Nokia	tbd, Finland
RAN#21	16 - 19 September 2003		
RAN#22	09 - 12 December 2003		

A GLOBAL INITIATIVE

TSG-RAN WG1

Meeting	Date	Host	Location
#24	08 - 11 January 2002	Nokia	Espoo, Finland
#25	18 - 22 February 2002	North American Friends of 3GPP	Orlando, FL, USA
#26	09 - 12 April 2002		
#27	14 - 17 May 2002	Samsung Electronics	tbd, Korea
#28	25 - 28 June 2002 (tbc)	Nokia	Oulu, Finland
#29	20 - 23 August 2002		
#30	24 - 27 September 2002 (tbc)	Samsung	tbd, China
#31	12 - 15 November 2002		

TSG-RAN WG2

Meeting	Date	Host	Location
#26	07 - 11 January 2002	ETSI	Sophia Antipolis, France
#27	18 - 22 February 2002	Motorola	Orlando, FL, USA
#28	08 - 12 April 2002	J-Phone	Kobe (tbc), Japan
#29	13 - 17 May 2002	Samsung Electronics	tbd, Korea
#30	24 - 28 June 2002	Ornitel	tbd, Italy
#31	19 - 23 August 2002		Europe (tbc)
#32	23 - 27 September 2002	CATT	tbd, China
#33	11 - 15 November 2002		Europe (tbc)

TSG-RAN WG3



Meeting	Date	Host	Location
#26	<u>14 - 18</u> January 2002	<u>Siemens</u>	<u>Voestendorf (Vienna), Austria</u>
#27	18 - 22 February 2002	North American Friends of 3GPP	<u>Orlando, FL, USA</u>
#28	08 - 12 April 2002	J-Phone	<u>Kobe (tbc), Japan</u>
#29	13 - 17 May 2002	Samsung Electronics	tbd, Korea
#30	24 - 28 June 2002	Omnitel (tbc)	tbd, Italy (tbc)
#31	19 - 23 August 2002		Europe (tbc)
#32	23 - 27 September 2002	CATT (tbc)	tbd, China (tbc)
#33	11 - 15 November 2002		Europe (tbc)

TSG-RAN WG4

Meeting	Date	Host	Location
#21	28 January - 01 February 2002	ETSI	Sophia Antipolis, France
#22	13 - 17 May 2002	Samsung Electronics	tbd, Korea
#23	12 - 16 August 2002	Nokia	tbd, Finland
#24	11 - 15 November 2002	<u>North American Friends of 3GPP</u>	USA (tbc)

A GLOBAL INITIATIVE

TSG RAN#14 Report Annex1

- **3GPP/3GPP2 HARMONIZATION MEETING**
 - **13-14 NOVEMBER 2001**
- **EAST BRUNSWICK HILTON HOTEL IN EAST BRUNSWICK, NJ**
 - **OUTPUT STATEMENT**

TSG RAN#14 Report Annex1 (cont')

- During the period of 13-14 November 2001, representatives of 3GPP and 3GPP2 met at the East Brunswick Hilton hotel to consider issues and options associated with harmonization of HSDPA and 1xEV-DV. The entire first day of this meeting was spent exchanging information on status and technical design of the two (2) technologies. During the second day, the following concepts were developed, by consensus of the group, to propose to each organization as a feasible and recommended strategy for approaching the issue of harmonization:

TSG RAN#14 Report Annex 1 (cont')

- Areas of harmonization that could be pursued include the following:
 - Common user and system services
 - Common spectrum allocation (being addressed by WRC)
 - Common core network (All IP - also addressed in other fora)
 - Common hardware design requirements for new features for the Access Terminal/User Equipment.

TSG RAN#14 Report Annex1 (cont')

- The group agreed that the expertise of 3GPP and 3GPP2 could be best utilised by focusing on harmonisation of hardware design requirements for new features for the Access Terminal/User Equipment. The benefits expected to be achieved by this activity are summarised as follows:
 - Terminals would have more commonality in their hardware platform for both technologies.
 - Economies of scale could be maximised by the use of common components wherever possible.

TSG RAN#14 Report Annex1 (cont')

- The group stressed that these are long-term goals and must not impact any current activities (e.g., the release of current standards to meet ITU-R WP 8F timelines). In addition, there was a suggestion that, based on the fact that the two (2) groups have different processes and procedures in place, working together is an effort that should start with small, achievable objectives that will build over time as the working relationship gets stronger.

TSG RAN#14 Report Annex1 (cont')

- RECOMMENDATIONS FROM THE MEETING:
 - Following the above considerations, it is therefore proposed that the first issues to be considered shall be the following:
 - Common definition for channel models (e.g., spatial propagation)
 - Common definition for traffic models
 - Common physical requirements for terminal TM design particularly for future development (e.g., MIMO (multiple input multiple output) antenna technology).

TSG RAN#14 Report Annex1 (cont')

- In order to smoothly introduce the common work, the following process is proposed:
 - An exploder shall be established for the 3GPP TSG RAN and 3GPP2 TSG-C Leaders to provide a means to exchange information on work programs between the two TSGs. As far as possible, reporting from both sides on the progress of the work shall be established. The long-term goal of this activity is to appoint rapporteurs in both directions.

TSG RAN#14 Report Annex1 (cont')

- A first meeting between the relevant working groups will be scheduled at the beginning of 2002 to develop the common models.
- In addition, a follow up meeting of 3GPP TSG RAN and 3GPP2 TSG-C representatives is scheduled to review the progress of the work. A tentative date for this meeting has been set for 28 June 2002 in Italy. The meeting will be hosted by 3GPP.

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

RP-010890

(R3-013480, to TSG-RAN) Response to LS (ITU-T Communication-to-3GPP-TSG-RAN) on AAL TYPE 2 RESOURCE MANAGEMENT

Title: Response to Liaison Statement on AAL Type 2 Resource Management
Source: TSG-RAN WG3
To: TSG-RAN, ITU-T Study Group 13 (via TSG-RAN)
Cc:
Contact Person
Name: Sami Kekki
E-mail Address: sami.kekki@nokia.com

TSG-RAN WG3 would like to thank ITU-T Study Group 13 for the received information on the developments in AAL2 Traffic Control and Congestion Control. TSG-RAN WG3 acknowledges the desire to improve the applicability of AAL2 for bursty traffic. Consequently TSG-RAN WG3 welcomes the draft I.371aal2 Recommendation and the work on the topic in Q4/13.

TSG-RAN WG3 would like to ask Q4/13 if they have considered any other than GCRA based approach in their work on AAL2 Resource Management. Considering the characteristics of bursty traffic in general and in UMTS Radio Access Networks in particular, the application of deterministic GCRA may have some true limitations in optimising the usage of AAL2 resources. TSG-RAN WG3 would also like to ask Q4/13 if they have considered any such approach that would be based more e.g., on heuristic rather than on deterministic control.

Dates for the next TSG-RAN and TSG-RAN WG3 meetings

TSG-RAN#14	11.-14. December, 2001
TSG-RAN#15	05.-08. March, 2002
TSG-RAN WG3#26	14.-18. January, 2002
TSG-RAN WG3#27	18.-22. February, 2002
TSG-RAN WG3#28	08.-12. April, 2002

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

RP-010891

(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.

Contact Person:

Name: Olivier Guyot
Tel. Number: +358 50 48 37 624
E-mail Address: Olivier.Guyot@nokia.com

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

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

Tdoc R3-013183

Title: Proposed Changes to 25.413 v5.x.x for GERAN Iu mode LCS
To: TSG RAN WG3
cc: TSG SA2
Contact: Scott Probasco
scott.probasco@nokia.com
+1.817.307.4579

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)