

**TSG-RAN Meeting #13**  
**Beijing, China, 18<sup>th</sup> – 21<sup>st</sup> September 2001**

**RP-010563**

**Agenda Item:** 7.3  
**Source:** ARIB/TTC  
**Title:** Comment on GERAN related work  
**Document for:** Discussion

**Abstract**

This TD shows ARIB/TTC position to the issue raised by the LS (RP-010501) from TSG RAN WG3.

And it also mentions the issue foreseen in 3G TR 25.881 “Common Radio resource management” (TSG RAN WG3) which is similar with the issue in the LS.

ARIB/TTC recommends working procedures to promote the 3GPP activity.

**1. Introduction**

Two actions are requested in the liaison statement “Response to LS: GERAN architecture and impacts on the Iu-cs interface” (RP-010501) from TSG RAN WG3.

----- (Start of extract from the LS) -----

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.

----- (End of extract from the LS) -----

Similar future argument is foreseen for inter-generation signalling protocols Iurg and IRNSAP, which are possible solutions in the 3G TR 25.881 v0.2.1 “Improvement of RRM across RNS and RNS/BSS” (R3-012687) for the study item.

**2. Discussion**

**2.1 ARIB/TTC basic stance for GERAN work in 3GPP**

Unfortunately, ARIB/TTC has no requirements to produce standards for GERAN in Japan. Then interworking between UTRAN and GERAN is also out of its interests.

ARIB/TTC has reflected its stance in the establishment of isolated TSG GERAN that:

- GERAN specific issue shall be treated under TSG GERAN,
- GERAN related issue, i.e. interworking between UTRAN and GERAN, shall primarily be treated under TSG GERAN,
- Minimum impact involved by GERAN (related) work to TSG RAN shall be intended.

This is in line with the terms of reference of TSG GERAN and TSG RAN.

## **2.2 Possible common RANAP for UTRAN and GERAN** **(Reply to the LS from TSG RAN WG3)**

Despite of establishment of the isolated TSG GERAN, ARIB/TTC could see the movement of ETSI GERAN activities into 3GPP implied that RANAP for UTRAN would be common for GERAN in future. This might lead a global modification of the term RNC to RNC/BSC in all UTRAN related TSs/TRs.

With its basic stance for GERAN work in 3GPP and its tacit understanding for the future common RANAP for UTRAN and GERAN, ARIB/TTC recommends following working procedure for the GERAN specific container and its content:

- The content will be developed under TSG GERAN (WG2) and will be liaised to TSG RAN (WG3) with the requirement for the development of GERAN specific container in the form of, e.g., liaison statement associated with proposed CR for the content,
- TSG RAN (WG3) will develop the GERAN specific container and reflect the container and the content into RANAP or 3G TR 25.413,
- ARIB/TTC will publish the 3G TR 25.413 as its technical specification or standard.

## **2.3 Possible common RNSAP for UTRAN and inter-UTRAN and GERAN** **(View on the study item TR 25.881)**

When the study item “Improvement of RRM across RNS and RNS/BSS” comes to work item, resulted work item for inter-generation, i.e., RRM across RNS and BSS shall be established under TSG GERAN. Resulted work item for intra-3G, i.e., RRM across RNS and RNS shall be established under TSG RAN.

CRRM server – RNC signalling protocol which is possible solution for the study item may be treated under TSG RAN, and CRRM server – BSC signalling protocol may be treated under TSG GERAN. Possible common CRRM – RNC/BSC signalling protocol is not considered here in this contribution.

ARIB/TTC suspects of possible future requirement for common RNSAP for UTRAN, GERAN, and inter UTRAN and GERAN, i.e., Iurg and IRNSAP.

One of ARIB/TTC basic stance shown in section 2.1 is that interworking

between UTRAN and GERAN shall primarily be treated under TSG GERAN to minimize the impact involved by GERAN related work to TSG RAN activity, as ARIB/TTC has no interests also on interworking between UTRAN and GERAN.

In light of above, ARIB/TTC recommends following working procedure for the possible common RNSAP:

- Inter-generation signalling protocol shall be studied under TSG GERAN (WGx) based on RNSAP,
- Possible content will be developed under TSG GERAN (WGx) and will be liaised to TSG RAN (WG3) with possible requirement for development of, e.g., inter-generation specific container in the form of, e.g., liaison statement associated with proposed CR for the possible content,
- TSG RAN (WG3) will develop, e.g., the possible inter-generation specific container and reflect the possible container and the possible content into RNSAP or 3G TR 25.423,
- ARIB/TTC will publish the 3G TR 25.423 as its technical specification or standard.

#### **2.4 Possible future revisit** **(According to the possible future work load)**

Recommended working procedures in sections 2.2 and 2.3 are based on an assumption that work load in TSG RAN (WG3) involved by possible common signalling protocols (RANAP and RNSAP) is not very much.

If the work load in TSG RAN (WG3) is involved by further capabilities expected to the common signalling protocols, e.g., inter-generation handover between UTRAN and GERAN (to Iurg), and the increased work load disturbs the TSG RAN (WG3) activity for pure UTRAN capabilities, ARIB/TTC would like to revisit the working procedure recommended/accepted. TSG RAN WG3 has made a number of non-treated TDs in its meetings.

### **3. Conclusion and Proposal**

- ARIB/TTC can accept the ideas of possible common RANAP for UTRAN and GERAN, and possible common RNSAP for UTRAN, GERAN, and inter-UTRAN and GERAN. And it does not see any trouble to publish the common TSs as its TSs or standards,
- However, ARIB/TTC recommends the working procedure that basically GERAN related study/development is under TSG GERAN (WGs) and reflection of the output to TSs is under TSG RAN (WGs). For details, see sections 2.2 and 2.3,
- ARIB/TTC reserves a room to revisit the issue when the GERAN related work load disturbs TSG RAN (WGs) activity for pure UTRAN capabilities. For details, see section 2.4.

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