

Technical Specification Group, Radio Access Network ***TSGR#2(99)096***
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Source: 3GPP-TSG-RAN-WG3 Iub O&M Ad Hoc
Title: Proposal for Iub Interface O&M Work Item and amendment of TSG-RAN Terms of Reference
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Milan, 22 February 1999

To: 3GPP-TSG-RAN, 3GPP-TSG-SA-WG5

CC: 3GPP-TSG-RAN-WG3, 3GPP-TSG-SA, SMG6-UMTS

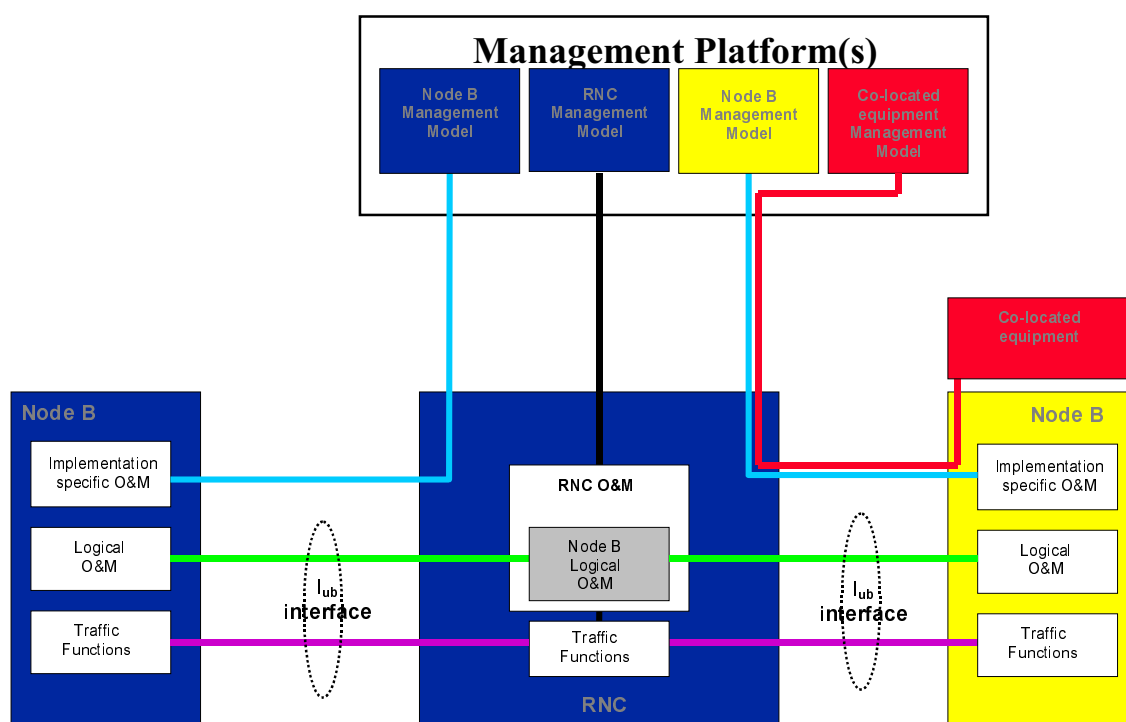
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Title: Proposal for Iub Interface O&M Work Item and amendment of TSG-RAN Terms of Reference

As agreed at TSG-RAN-WG3 meeting #1 (2-5 February, Bonn) the O&M Ad Hoc group was formed to discuss the scope of responsibilities for UTRAN O&M of TSG-RAN-WG3. In particular, the division of responsibilities between TSG-RAN-WG3 and TSG-SA-WG5 was felt to be unclear.

The TSG-RAN-WG3 O&M Ad Hoc met on 22 February in Milan -the meeting invitation was extended to members of TSG-SA-WG5. The meeting was able to reach a majority agreement on a proposal relating to the Iub O&M work item. This proposal is outlined below.

- TSG-RAN-WG3 O&M Ad hoc acknowledge receipt of liaison statement 99-023 (R3O&M-99005) from TSG-SA-WG5 relating to split between O&M work of RNC and Node B. We accept in principle the architecture proposed by TSG-SA-WG5 but in the course of the meeting have further refined this proposal. The refined architecture is presented in the diagram below and we would ask that TSG-SA-WG5 accept this architecture as a working assumption.



- TSG-RAN-WG3 O&M Ad Hoc have defined a phased approach to the Iub O&M work item. We have further recommended the most suitable working groups for these individual phases, and would summarise the overall proposal for this phased approach as below. Please note it should be possible to perform a number of the phases identified below in parallel with others. The definition of phases 2 to 4 are the working assumption of TSG-RAN-WG3 O&M Ad Hoc and as such may be subject to refinement depending on the collaboration with SA-WG5.
 1. PHASE 1 – The definition of a detailed O&M logical model for the Node B was agreed as the first phase. Based on the core skills necessary to perform this task we would recommend that responsibility for this be assigned to TSG-RAN-WG3. It was also recognised that the competencies of TSG-SA-WG5 delegates would also be required to fulfil this. The requirement to define an O&M logical model for the RNC was also discussed, and this is recommended for further study.
 2. PHASE 2 – The second phase of work was agreed to be the assignment of the O&M functions (defined in phase 1) to either Implementation Specific O&M or Logical O&M – as shown in the architecture proposal above. Based on the core skills necessary to perform this task we would recommend that responsibility for this be assigned to TSG-RAN-WG3. Again, it was recognised that the competencies of TSG-SA-WG5 delegates would be required to fulfil this task.
 3. PHASE 3 – It was recognised by TSG-RAN-WG3 O&M Ad Hoc that 2 different management approaches were possible for the Node B – top down or bottom up. The top down approach was defined as being driven from the requirements of the management system. The bottom up approach was defined as being developed from the actual O&M functional requirements of the Node B. The TSG-RAN-WG3 O&M Ad Hoc agreed to take the bottom up approach as a working assumption.
Based on this assumption, the third phase was agreed as the standardisation of the Logical O&M between the RNC and the Node B. The scope of this work should be the definition of the required signalling procedures and the messages required to support these. Based on the core skills necessary to perform this task we would recommend that responsibility for this be assigned to TSG-RAN-WG3. TSG-RAN-WG3 O&M Ad Hoc accepted that the integration of top down requirements into the standardisation should be performed if they are provided within the required timescales. These top down requirements should be defined by TSG-SA-WG5.
 4. PHASE 4 – The next phase of the work was agreed to be the standardisation of the physical transport mechanism for the Implementation Specific O&M. Due to the presence of the Implementation Specific O&M on the same physical interface as the core traffic/data signalling and the Logical O&M, it is proposed that responsibility for this be assigned to TSG-RAN-WG3. However, it was agreed that the requirements for this should be defined by TSG-SA-WG5 and inputted to TSG-RAN-WG3 for standardisation. TSG-RAN-WG3 O&M Ad Hoc would therefore ask TSG-SA-WG5 to provide such input.
TSG-RAN-WG3 O&M Ad Hoc also agreed that all higher layer standardisation on the Implementation Specific O&M should be for further study in TSG-SA-WG5.

Proposal

The TSG-RAN-WG3 O&M Ad Hoc would therefore ask that TSG-RAN adjust its terms of reference to reflect the proposal above. Also, we would ask that TSG-RAN and TSG-SA ensure no conflicts or contradictions exist between their individual terms of reference. The proposed new terms of reference for TSG-RAN are as follows.

Iub Specification

To be replaced by:

Iub Specification (Including Logical O&M and Physical Transport Layer for Implementation Specific O&M)