Agenda Item: 21 (I3.05 for O&M Ad-Hoc)

Source: Motorola

Title: Comments on Tdoc 465   (Vodafone)

"Contribution to I3.05 – Node B O&M Functional Description"

This document contains comments from Motorola on the content of the contribution from Vodafone (**Tdoc 465**) entitled "Contribution to I3.05 - Node B O&M Functional Description"

General Comments:

In general Motorola would prefer to see the term "Logical O&M" renamed to "Resource Management" as we believe this more accurately describes the information exchange between RNC and Node B as described in this document.
Also we believe the renaming of "Implementation Specific O&M" to simply "O&M" as suggested by Telia (**Tdoc 322**) is a more accurate naming of the Node B to Management system exchange described in this document

Sections 5 & 6

In most cases Motorola agrees with the categories chosen for the Node B Functional Description, however there are some areas we believe are not required or do not warrant identification as individual functions. There are also some details of other functional descriptions we would like to see changed (detailed comments are included below).

Sections 7 & 8

With the clarification of terminology as described in our general comments above Motorola can in most cases agree with the assignments chosen, with some exceptions which are detailed below.

Detailed Comments:

Section 6:   Functional Descriptions

Link Termination and Management

We do not believe the RNC should be involved as indicated here.
We believe Inverse Multiplexing over ATM (IMA) has already been chosen for ATM Management and should also be used for RNC - Node B link management. We believe IMA does support the areas you have indicated above.
We believe this section should be removed.

Cell Configuration

We agree that it does make sense to have the RNC configure certain cell parameters at the Node B, these should never be Node B Hardware or Vendor specific parameters, The specific parameters themselves must be standardised and not a generic transfer mechanism that allows transfer of any parameters.
For others parameters it will be more efficient to have the OMC operator provide the information directly to the Node B, which then provides the RNC with what it needs. Going with such a design allows the Node B vendor leeway to introduce cell specific parameters without modifying the RNC object model or the Iub interface. This leeway may allow vendors to supply innovative, Node B features.

We would therefore propose that this section recognises that there will be two types of Node B cell parameters, those requiring control by the RNC, and those that are shared with the RNC but controlled by the OMC.

Performance Monitoring

Although we do agree much of the performance information is service related we have to question the ability to use most of this information in real time.
We are willing to accept there may be some performance information, which may be used in, real-time, so a placeholder could be put in the definitions - but we do not see much information being directly useful to the RNC

Synchronisation and Timing
We believe an unstable synchronisation at the Node B is quite serious and requires localised action at the Node B, and immediate alarming to the OMC. Alarm and Resource Management (6) should cover any RNC notification, We don't see the need for a specific section, and propose it is removed.

Coding and Channelisation
We believe a key issue here is the capacity a particular Node B can handle. That limitation has to be indicated to the RNC or handled on an indication basis when exceeded.

Sections 7 & 8   Logical O&M / Implementation Specific O&M

General Comment on section 7
We think the functionality present in this section should mostly relate to the Node B indicating to the RNC logical resource availability.
Logical resources include cells, carriers per cell, power capacity, and user handling capacity.
We believe backhaul management should be left to operator configurations and ATM management techniques

Detailed Comments on sections 7 & 8
We would like to see the following changes in sections 7&8 based on our above discussion:

Cell Configuration
This section should be split in two as discussed earlier with one part assigned to section 7 and one to section 8.

Link Termination and Management
We suggest removing this section completely

Synchronisation and Timing
We suggest removing this section completely

Initialisation and Software Management
We believe the description of Initialisation and Software Management in section 7 already reflects the fact that Software Management of the Node B is controlled by the management system and this function therefore should also appear in section 8.

We suggest addition of Initialisation and Software Management to section 8 with following suggested wording:
Control of Software Download and initialisation should rest with the management system and is therefore implemented via the implementation specific O&M Interface, The RNC should be informed and allowed to ok any Node B initialisation or restart (see section 7 above) via the logical resource management interface.