Agenda Item: **15.3**

Source: **Siemens / Italtel**

Title: **NBAP : State Alignment Procedure**

Document for: **Approval**

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1   Introduction

This contribution proposes to introduce a State Alignment Procedure in order to ensure that the state/status attribute values in the controlling RNC are aligned to their corresponding state and status attribute values in the Node B.

With this State Alignment procedure it is not intended to replace the audit procedure after a link failure, Node B restart or RNC restart, since different procedures are performed. The audit procedure is used to check if all configuration commands from the RNC to the Node B has been received. It is not checked, if a resource has been disabled meanwhile. Therefore the state alignment procedure is used in addition to the audit procedure. Vice versa with the state alignment procedure the reconfiguration commands can not be recorded, so that both procedures are necessary and complete each other.
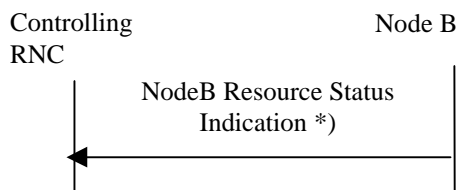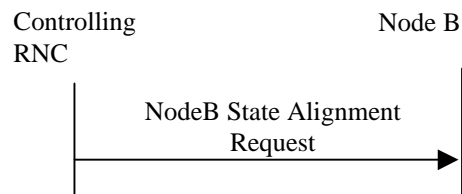
2   Description

2.1   State Alignment Procedure

This NBAP common procedure is used to align the state and status attribute values actually defined within the Node B with the corresponding state and status attribute values in RNC. This procedure is initiated by the RNC.

In the response to the State Alignment Request, the RNC is informed about all available resources and their state and status attribute values by means of the Resource Status Indication message. In case the state attributes of all cells available within the Node B shall be reported, one Resource Status Indication message per cell is send.

For this procedure to be executed successfully the following is needed :
- Node B equipment has previously been defined and configured
- A Node B control port is available for communication between the RNC and the Node B

State Alignment Procedure

*) There is a Node B Resource Status Indication for each cell within a NodeB.

The NODE B STATE ALIGNMENT REQUEST message contains the following information:
- Transaction ID
- Cell ID (in case the alignment procedure is limited to one cell only)

The NODE B RESOURCE STATUS INDICATION message shall contain the state and status attribute values of all resources existing within the Node B or the indicated cell.

2.2   State Alignment Request

This message is sent from the RNC to the Node B to request the report of the Resource Status Indication.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
Transaction ID		M
Cell ID		O

3   Proposal

1. Add the contents of sections 2.1 of this contribution to section 8.1.6.x in 25.433.
2. Add the contents of sections 2.2 of this contribution to section 9.1.x in 25.433

4   Reference
[1]   TS 25.433 V1.2.0 – NBAP Specification