

Agenda Item: 16.4
Source: Ericsson
Title: Refined NBAP Procedure for Cell Configuration
Management: Cell Setup
Document for: Decision

1. INTRODUCTION

This contribution refines the NBAP procedure for cell configuration. When the procedure is executed successfully, a cell is configured in Node B containing two synchronisation channels.

There is an open issue about several carriers per cell. If several carriers per cell is introduced, the CELL SETUP message needs to be changed, so that several carriers per cell can be defined.

2. DESCRIPTION

2.1 *Cell Setup*

The CRNC initiates cell configuration, by sending the message CELL SETUP REQUEST to Node B. Node B creates and configures a cell context, creates and configures two synchronisation channels (SCH1 and SCH2). The result is communicated back to the CRNC with the message CELL SETUP RESPONSE in the successful case, and CELL SETUP FAILURE in the unsuccessful case.

2.2 *Cell Setup Request*

This message is sent from CRNC to inform the Node B in order to configure a cell context and to create the associated SCHes. Several carriers per cell is FFS.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
Transaction ID		M
Local Cell ID		M
Cell ID		M
SCH1 power		M
SCH2 power		M

Max transmission power		M
Frequency number		M
DL scrambling code information		M
DL scrambling code		M

2.3 **Cell Setup Response**

This message is sent to inform the CRNC that the cell and SCH configuration was successful in Node B.

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

2.4 **Cell Setup Failure**

This message is sent to inform the CRNC that the attempt to configure a cell and the SCHes has failed.

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

2.5 **Frequency Number**

The Frequency Number is the frequency number for a carrier in a cell.

3. **PROPOSAL**

Proposal 1

The text

The RNC initiates a definition of a cell in Node B, which creates and configures a cell context in Node B. The result is communicated back to the RNC.

is proposed to be replaced with

The CRNC initiates cell configuration, by sending the message CELL SETUP REQUEST to Node B. Node B creates and configures a cell context, creates and configures two synchronisation channels (SCH1 and SCH2). The result is communicated back to the RNC..

in chapter 8.1.5.1 Cell Setup in 25.433 v1.1.1 NBAP Specification.

Proposal 2

Add the contents of chapter 2.2 in this contribution to chapter 9.1.x Cell Setup Request in 25.433 v1.1.1 NBAP Specification.

Proposal 3

Add the contents of chapter 2.3 in this contribution to chapter 9.1.x+1 Cell Setup Response in 25.433 v1.1.1 NBAP Specification.

Proposal 4

Add the contents of chapter 2.4 in this contribution to chapter 9.1.x+2 Cell Setup Failure in 25.433 v1.1.1 NBAP Specification.

Proposal 4

Add the contents of chapter 2.5 in this contribution to chapter 9.2.x Frequency Number in 25.433 v1.1.1 NBAP Specification.

4. REFERENCES

- [1] TS 25.433 V1.1.1 - NBAP Specification