TSG-RAN Working Group 3, meeting #6   *TSGR3#3(99) 866*

Sophia Antipolis, FRANCE, 23rd – 27th August 1999

Agenda Item: 16.4

Source: Motorola

Title: Block Resource, Resource Notification, Node B Failure – Message Content and Format

Discussion for: Decision

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1   Introduction

This contribution discusses the message content and format for the procedures:

- Block Resource (Radio Resource Management)
- Node B Failure (Resource Event Management)
- Node B Resource Notification (Resource Event Management)

2   Discussion

2.1   Message Functional Definition and Content

2.1.1   Block Resource Request

The BLOCK RESOURCE REQUEST message is sent from the Node B to the CRNC to request the block of logical resources.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
Transaction ID		M
Cell ID		M
Carrier ID		O
Codes Supported		O
Priority Indicator		M
Wait time		C

2.1.2   Block Resource Response

The BLOCK RESOURCE RESPONSE message is sent from the CRNC to the Node B to indicate the successful block of the requested resource.

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

2.1.3 Block Resource Failure

The BLOCK RESOURCE FAILURE message is sent from the CRNC to the Node B indicating a failure to block the requested resource.

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

2.1.4 Node B Failure

The NODE B FAILURE INDICATION message is sent from the Node B to the CRNC to indicate the loss or service degradation of logical resources at the Node B.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
Transaction ID		M
Node B Failure Type		M
Cell ID		O
Carrier ID		O
Codes Supported		O
Service Impact Level		M

2.1.5 Node B Resource Notification

The NODE B RESOURCE NOTIFICATION message is sent from the Node B to the CRNC to notify the CRNC of the availability of logical resources.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
Transaction ID		M
Cell ID		M
Carrier Information		
Carrier ID		M
Add/Delete Indicator		C
Codes Supported		O
DL Transmission Power		O
Local Cell ID		O
Add/Delete Indicator		M

2.2   Message Types

This section defines the message types for the Information Elements introduced in section 2.1 yet not already defined in section 9.2 of 25.433.

2.2.1   Carrier ID

The Carrier ID is the identifier of a carrier.

2.2.2   Codes Supported

The Codes Supported specifies the codes supported by the carrier.

2.2.3   DL Transmission Power

The DL Transmission Power indicates the downlink transmission power availability for a carrier.

2.2.4   Priority Indicator

The Priority Indicator indicates either an impending or immediate resource block.

2.2.5   Wait Time

If the Priority Indicator is set to impending, the Wait Time contains the time before the resource is blocked.

2.2.6   Node B Failure Type

The Node B Failure Type indicates the type of failure that resulted in loss or service degradation of a logical resource at the Node B. The failure type may indicate the failure of logical resources, communication ports and/or traffic termination points.

2.2.7   Local Cell ID

The Local Cell ID is a cell identity local to the Node B yet known by both the RNC and Node B.

2.2.8   Add/Delete Indicator

The Add/Delete Indicator indicates if the specified Node B resource has been added or deleted.

3   Proposal

To add sections 2.1 and 2.2 to the Elements for NBAP Communication sections (9.1 and 9.2) of 25.433.