Agenda Item: 16.3

Source: Motorola

Title: Common Transport Channel Reconfiguration Request – ToAWS, ToAWE

Discussion for: Decision

1   Introduction

This contribution proposes the addition of scheduling information to the Common Transport Channel Reconfiguration procedure.
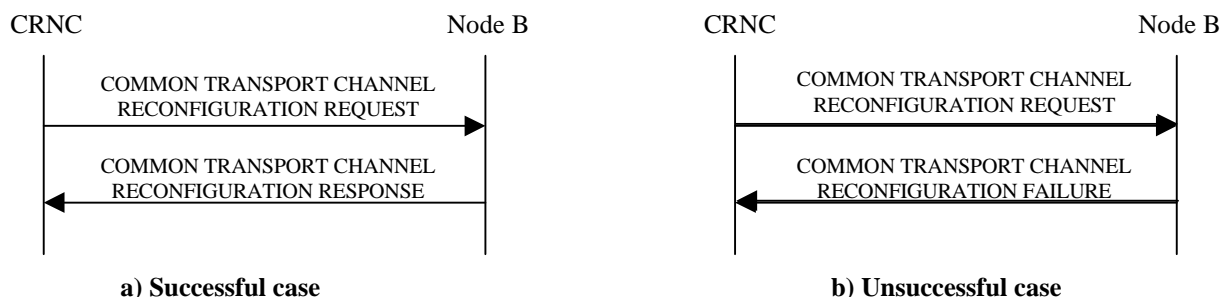
2   Discussion

The ToAWS and ToAWE information elements are setup for FACH and FACH/PCH channels via the Common Transport Channel Setup procedure. It is proposed that they can also be reconfigured via the Common Transport Channel Reconfiguration procedure. Sections 2.1 and 2.2 detail the addition of these elements to the reconfiguration procedure.

2.1   Common Transport Channel Reconfigure

The RNC initiates a change of the configuration of common transport channels in Node B, which reconfigures the channels. The result is communicated back to the RNC.

For the procedure to be executed successfully the following is needed:
- The transport common channel(s) exist in the cell within the Node B
- Node B equipment has previously been defined and configured to support the changed channels on the Implementation Specific O&M interface
- A Node B control port is available for communication between the RNC and the Node B, for the procedure to be executed successfully
- The RNC shall use the following procedure to re-configure a common transport channel

a) Successful case   b) Unsuccessful case

The COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message contains the following information:

- Cell Id (allows the Node B to reference the channel against the correct cell where a Node B supports multiple cells)
- Common channel type (e.g. FACH, BCCH, PCCH) and identifier
- ~~New DL radio resource (DL Channelisation code, frequency)~~ Power (e.g. FACH, BCH, PCH, PICH, AICH)
- ToAWS and ToAWE (e.g. FACH, PCH)
- Transaction Id (identifies the procedure)

The COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE contains the following information:

- Transaction Id (identifies the procedure)

The COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE contains the following information:

- Transaction Id (identifies the procedure)
- Cause (cause value for the failure)

2.2   COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

This message is sent from the RNC to the Node B to request the reconfiguration of a common transport channel in the Node B. One common transport channel at a time can be reconfigured using this procedure.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
Transaction ID		M
Cell ID		M
Common Transport Channel ID		M
FACH Parameters		**O**
FACH Power		C
ToAWS		C
ToAWE		C
BCH Parameters		**O**
BCH Power		C
PCH Parameters		**O**
FACH / PCH Power		C
ToAWS		C
ToAWE		C
PICH Parameters		**FFS**
PICH Power		C
AICH Parameters		**FFS**
AICH power		C

(Editor's Note: Other parameters may be introduced)

3   Proposal

The following changes to TS 25.433 [1] are proposed -
1.   Replace the contents of section 8.1.1.1.2 with section 2.1.
2.   Replace the contents of section 9.1.35 with section 2.2.

4   References

[1] 3GPP TS 25.433 – NBAP Specification V 1.3.1