Agenda Item: **15.4**
   Source: **Ericsson**

   Title: **Enhanced NBAP Procedure for Common Transport Channels Management: Common Transport Channel Setup**

Document for: **Decision**

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1. INTRODUCTION

This contribution introduces the possibility of muxing several common transport channels on a common physical channel.

2. DESCRIPTION

2.1 Common Transport Channel Setup Request

This message is sent from the RNC to the Node B to request the setup and configuration of a common transport channel in the Node B. Several common transport channel can muxed on one common physical channel at the same time using this procedure. The channel(s) is/are available for use after the successful completion of this procedure.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
Transaction ID		M
Cell ID		M
Primary CCPCH		**C1**
BCH parameters		**M**
Common transport channel ID		M
BCH power		M
Secondary CCPCH		**C1**
Secondary CCPCH Id		M
Chip Offset		M
DL Channelisation code number		M
DL Transport Format Combination Set		M
Primary/secondary DL Scrambling Code No		M
FACH parameters		O

Common transport channel ID		M
DL Transport Format Set		M
ToAWS		M
ToAWE		M
PCH parameters		O
Common transport channel ID		M
DL Transport Format Set		M
ToAWS		M
ToAWE		M
PCH Power		M
PICH parameters		**C2**
DL Channelisation code number		FFS
PICH power		M
PICH mode		M
RACH parameters		**O**
Common transport channel ID		M
Preamble Spreading Code		M
Allowed Preamble Signatures		M
Allowed Spreading Factor for the message part		M
Allowed Access Slots		M
Preamble to Preamble timing		M
AICH parameters		**FFS**
DL Channelisation Code		M
AICH Power		M

C1 Only one common physical channel is allowed at the time. It can be either one Primary CCPCH or one Secondary CCPCH.

C2 Only one PICH is allowed if a PCH is present in the message.

2.2   *Common Transport Channel Id*

Common Transport Channel Id is the unique identifier for one common transport channel within a cell.

2.3   *BCH Power*

BCH power is the power that should use for transmission of the BCH in a cell.

2.4   *Secondary CCPCH Id*

Secondary CCPCH Id is the unique identifier for one Secondary CCPCH within a cell.

2.5   *Primary/secondary DL Scrambling Code No*

The Primary/secondary DL Scrambling Code No is the scrambling code number to be used for the common physical channel.
Following values are defined:
0.   Primary DL Scrambling Code number
1.   First secondary DL Scrambling code number
2.   Second secondary DL Scrambling code number
3.   Third secondary DL Scrambling code number
4.   Fourth secondary DL Scrambling code number
5.   Fifth secondary DL Scrambling code number
6.   Sixth secondary DL Scrambling code number
7.   Seventh secondary DL Scrambling code number
8.   Eighth secondary DL Scrambling code number
9.   Ninth secondary DL Scrambling code number
10.   Tenth secondary DL Scrambling code number
11.   Eleventh secondary DL Scrambling code number
12.   Twelfth secondary DL Scrambling code number
13.   Thirteenth secondary DL Scrambling code number
14.   Fourteenth secondary DL Scrambling code number
15.   Fifteenth secondary DL Scrambling code number

2.6   *PCH Power*

PCH power is the power that should use for transmission of the PCH in a cell.

2.7   *PICH Power*

PICH power is the power that should use for transmission of the PICH in a cell.

2.8   *PICH Mode*

The number of CI paging indicator in a PICH frame.

2.9   *AICH Power*

AICH power is the power that should use for transmission of the AICH in a cell.

3.   PROPOSAL

Proposal 1

Replace the contents of in chapter 9.1.32 Common Transport Channel Setup Request in 25.433 v1.2.0 NBAP Specification with the contents of chapter 2.1 in this contribution.

Proposal 2

Add the contents of chapter 2.2 in this contribution to chapter 9.2.x Common Transport Channel Id in 25.433 v1.2.0 NBAP Specification.
Add the contents of chapter 2.3 in this contribution to chapter 9.2.x+1 BCH Power in 25.433 v1.2.0 NBAP Specification.
Add the contents of chapter 2.4 in this contribution to chapter 9.2.x+2 S-CCPCH Id in 25.433 v1.2.0 NBAP Specification.
Add the contents of chapter 2.5 in this contribution to chapter 9.2.x+3 Primary/secondary DL Scrambling Code No in 25.433 v1.2.0 NBAP Specification.
Add the contents of chapter 2.6 in this contribution to chapter 9.2.x+6 PCH Power in 25.433 v1.2.0 NBAP Specification.
Add the contents of chapter 2.7 in this contribution to chapter 9.2.x+7 PICH Power in 25.433 v1.2.0 NBAP Specification.

Add the contents of chapter 2.8 in this contribution to chapter 9.2.x+8 PICH Mode in 25.433 v1.2.0 NBAP Specification.
Add the contents of chapter 2.9 in this contribution to chapter 9.2.x+14 AICH Power in 25.433 v1.2.0 NBAP Specification.

4. REFERENCES

[1]   TS 25.433 V1.2.0 - NBAP Specification