

**Agenda Item** : 15.3, 16.4  
**Source** : NTT DoCoMo  
**Title** : A new RNSAP and NBAP parameter  
**Document for** : Approval

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## 1. Abstract

This contribution proposes the parameter for the dedicated NBAP and RNSAP procedure Radio Link Setup Response and Radio Link Addition Response.

## 2. Discussion

In TSG-RAN WG2, it has been agreed that, when the active set update procedure is performed, the UE shall receive the latest UL interference level of the newly added Radio Link from SRNC, as in [1]. This is value is informed from the SRNC to the UE so that the UE is capable to work out the UL DPCH power.

### 10.2.6.7 Uplink DPCH power control info

Interference level measured for a frequency at the UTRAN access point used by UE to set DPCH initial output power.

In order for the SRNC to inform the latest UL interference level to UE, the SRNC has to be informed the latest UL interference level from the DRNC and NodeB as well. The most appropriate time to obtain the latest level is when a Radio Link is established. Radio Link Setup Response and Radio Link Addition Response message is the most suitable one to send the UL interference level from DRNC / NodeB to SRNC.

## 3. Proposal

It is proposed that the changes in Annex shall be reflected to the corresponding sections in 25.423 RNSAP specification and 25.433 NBAP specification

[1] TS 25.331 RRC Protocol Specification V1.2.0

#### 4. Annex

### [RNSAP]

#### 9.1.3 RADIO LINK SETUP RESPONSE

Information element	Reference	Type
Message type		M
Transaction ID		M
D-RNTI		M
CN PS Domain Identifier		O
CN CS Domain Identifier		O
<b>RL information response</b>		<b>M</b>
RL-ID		M
<u>UL interference Level</u>		<u>M</u>
Diversity Indication		C1
Reference RL-ID		C2
DL Scrambling code		M
<b>DL Channelisation Codes</b>		<b>M</b>
DL Channelisation code		M
<b>DCH information response</b>		<b>C3</b>
DCH ID		M
Binding ID		M
Transport Address		FFS
<b>Neighbouring cell information</b>		<b>O</b>
UTRAN Cell Identifier (UC-Id)		M
CN PS Domain Identifier		O
CN CS Domain Identifier		O
<b>Primary CCPCH Radio Resource Information</b>		<b>M</b>
UARFCN		M
Primary CCPCH scrambling code		M
Primary CCPCH TX Power		O
Frame Offset		O
<b>DSCH Information Response</b>		<b>O</b>
DSCH TFS		M
Binding ID		M

C1=present only if # of RL >1

C2=present only if Diversity Indication is 'ON'

C3= present only if Diversity Indication is 'OFF'

## 9.1.6 RADIO LINK ADDITION RESPONSE

Information element	Reference	Type
Message type		M
Transaction ID		M
<b>RL information response</b>		<b>M</b>
RL-ID		M
<u>UL interference Level</u>		<u>M</u>
Diversity Indication		M
Reference RL-ID		C1
DL Scrambling code		M
<b>DL Channelisation Codes</b>		<b>M</b>
DL Channelisation code		M
<b>DCH information response</b>		<b>C2</b>
DCH ID		M
Binding ID		M
Transport Address		FFS
<b>Neighbouring cell information</b>		<b>O</b>
UTRAN Cell Identifier (UC-Id)		M
CN PS Domain Identifier		O
CN CS Domain Identifier		O
<b>Primary CCPCH Radio Resource Information</b>		<b>M</b>
UARFCN		M
Primary CCPCH scrambling code		M
Primary CCPCH TX Power		O
Frame Offset		O
<b>DSCH Information Response</b>		<b>O</b>
DSCH TFS		M
Binding ID		M

C1=present only if *Diversity Indication* is 'ON'

C2= present only if *Diversity Indication* is 'OFF'

## [NBAP]

### 9.1.3 RADIO LINK SETUP RESPONSE

This message is sent from Node B to CRNC as response to the Radio Link Setup message when all RLs have been successfully setup.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
CRNC Communication Context ID		M
Node B Communication Context ID		M
Communication Control Port ID		M
Transaction ID		M
<b>RL Information Response</b>		<b>M</b>
RL ID		M
<u>UL interference Level</u>		<u>M</u>
Diversity Indication		C
Reference RL ID		C
<b>DCH Information Response</b>		<b>C</b>
DCH ID		M
Binding ID		M
Transport Layer Address		FFS

### 9.1.6 RADIO LINK ADDITION RESPONSE

This message is sent from Node B to CRNC as response to the Radio Link Addition message when all RLs have been successfully added.

Information Element	Reference	Type
Message Discriminator		M
Message Type		M
CRNC Communication Context ID		M
Transaction ID		M
<b>RL Information Response</b>		<b>M</b>
RL ID		M
<u>UL interference Level</u>		<u>M</u>
Diversity Indication		M
Reference RL ID		C
<b>DCH Information Response</b>		<b>C</b>
DCH ID		M
Binding ID		M
Transport Layer Address		FFS