

Agenda Item: 14.2
Source: Ericsson
Title: DL power level on the secondary-CCPCH
Document for: Decision

1. INTRODUCTION

During TSG-RAN WG3 #6, it was decided to transport only one common transport channel on one transport bearer over lub. As a result every FACH transport channel, even when multiplexed on a common s-CCPCH with other FACH/PCH transport channels, will use separate frames on a separate transport bearer.

Every FACH frame will include a "Transmission power level" field in the FP header. Since different FACH and PCH transport channels might be multiplexed on one s-CCPCH, the node-B may receive several different power level indications for one Uu frame.

This contribution discusses how the node-B should coordinate the power level requests received for the different transport channels.

2. RATIONALE

For data on the s-CCPCH only 1 power level can be set per Uu frame.

In order to make sure that all transport channels transmitted in a certain Uu frame are transmitted with at least the DL-power requested for each transport channel, the node-B has to determine which transport channel has the highest demands and set the desired DL power level to this level.

3. PROPOSAL

It is proposed to include the following paragraph in section 5.1.1. of ref [1]:

"Frames sent on lub for different transport channels multiplexed on one secondary-CCPCH might indicate different transmission power levels to be used in a certain Uu frame. Node-B shall determine the highest DL power level required for any of the transport channels multiplexed in a certain Uu frame and use this power level as the desired output level."

4. REFERENCES

- [1]: TS 25.435 TSG RAN: "UTRAN lub Interface User Plane Protocols for COMMON TRANSPORT CHANNEL Data Streams"