

Agenda Item: 8.3

Source: Nortel Networks

Title: Text Proposal for Power Control Step section of TS 25.104

Document for: Discussion and decision

1. Introduction

The value of the power control step size applicable for the base station is to be confirmed (it is written in square brackets) in the last version of TS25.104. However, WG1 sent WG4 the conclusion on that subject in the liaison statement [1].

The goal of that document is to propose text changes for the TS25.104 in order to make it consistent with the conclusion of the WG1.

2. Proposed modification in s25.104

It is proposed to:

- ✓ Replace the [1dB] value of the document TS25.104 by the two values proposed by WG1 : 1dB as a mandatory value, 0.5dB as an optional value
- ✓ Mention that this step size is applicable on a code basis

3. Text proposal for '6.4.2 Power control steps'

6.4.2 Power control steps

The power control step is the minimum step change in the power of one of the physical channels transmitted by the DL transmitter. ~~output power in response to a TPC message from the UE.~~

6.4.2.1 Minimum requirement

Down link step size ~~{~~1 dB} mandatory, 0.5dB optional

Step size tolerance ffs.

~~<Need to define the transmitter power as “code domain power”. This is ffs.>~~

4. Conclusion

Text for Power control step section of TS25.104 has been proposed:

- The values are consistent with the ones proposed by WG1 in [1]
- It is mentioned that this power step size is applicable “code by code”

5. Reference

- [1] Liaison statement to WG4 on power control minimum step sizes, source 3GPP RAN WG1 Tdoc R4-99263