TSG RAN Working Group 1 (Radio layer 1) *TSGR1#12 (00) 576*
Seoul (Korea), 10th April – 13rd April 2000

Agenda Item: Plenary

Source: Alcatel, Philips

Title: Downlink inner-loop power control in compressed mode

Document for: Decision

Introduction

During the joint 3GPP RAN WG1-WG3 ad-hoc meeting that took place April 11th, it was agreed that downlink inner-loop power control would be fully specified, including the downlink inner-loop power control in compressed mode.

Due to the late date where this decision was taken, we propose that the same algorithm be applied in uplink and in downlink, as already suggested by several companies during the ad-hoc meeting.

For this purpose, similar parameters than in uplink need to be signalled by the RNC to the Node B to set the power control parameters, i.e.:
- Power control mode (two values: 0 or 1)
- Power Resume mode (two values: 0 or 1)

Each of this parameter is only coded on 1 bit and thus represents a low amount of signalling. These parameters are currently only being signalled for the uplink in the NBAP protocol ([1]). They are respectively referenced as recovery period power control mode and initial transmit power mode in 25.214.

If this additional signalling is not considered to be acceptable, the uplink algorithm with the power control mode equal to 1 (recovery period power control algorithm) and with power resume mode equal to 0 (the power after the transmission gap is equal to the power before the transmission gap) could be chosen instead.

If one of these proposals is agreed, we will draft a CR for 25.214. If the proposal with additional signalling is agreed, we also recommend sending a liaison statement to RAN WG3.

References

[1] 3GPP TS 25.433 version 3.1.0, “UTRAN Iub Interface NBAP Signalling”, March 2000