

Palm Springs, USA**March 13-16, 2001****Agenda item: 6.6.5****Source:** Rapporteur**Title:** Status Report of Study Item "Improved Common Downlink for Cell-FACH State"**Document for:** Information

This document provides a status report of the study item 'Improved Common Downlink for Cell-FACH State'. TSG-RAN WG2 is the leading working group for this work item. A technical report has not been created. A TR will be created if the work uncovers an improvement which is to be proposed as a Work Item for specification development.

The status of each involved WG is summarised below:

RAN WG2:

In RAN2#18 a contribution was discussed that indicated the limitations inherent in the current OLPC scheme. Several suggested techniques were described which could potentially decrease required DL transmit power (increase DL capacity) of OLPC FACH by 3-6 db. None of the suggested techniques were described in detail and the discussion raised many questions about possible implementations. It was decided that the proponent company should select one of the techniques, develop sufficient detail for understanding, and distribute this on the email reflector.

Between RAN2#18 and RAN2#19 a more detailed proposal was circulated for information and discussion. There were no comments.

In RAN2#19, a revised more detailed proposal was presented which described a DL probing technique which can be used to determine the minimum transmit power level for OLPC to any UE in the cell. Interlayer interactions were described to use this DL probe to decrease power levels for directed FACH messages. No negative comments concerning L2/L3 were noted. But since the primary benefit from this approach is based on a new Layer 1 procedure, RAN2 decided to forward the proposal with questions to RAN1 for comment via a LS.

RAN WG1:

During RAN WG1 meeting #19 in Las Vegas, USA, there was no time available to treat the RAN2 study item proposal which was forwarded to RAN1 in a LS. It was stated that an email discussion of the proposal could be used to begin the discussion of this new DL probe procedure. RAN1 will not be able to discuss this until the next meeting in May.