

Agenda item: 6.6.6 Terminal Power Saving Features (WG1)

Source: Rapporteur

Title: Status Report for the Work Item "Terminal Power Saving Features"

Document for: Information

This is the rapporteur's report on the progress made so far in RAN WG 1/2/3/4 on the Work Item (WI) "Terminal Power Saving Features" since the technical report TR 25.840 "Terminal Power Saving Features" was approved as version 1.0.0 in RAN meeting #9. TR 25.840 includes the requirements and detailed description of the gated DPCCCH transmission (hereafter, "gating" is used interchangeably) to support terminal power saving features.

RAN WG1

RAN WG1 leads this WI. Since the last RAN meeting (RAN #9), TR 25.840 v1.1.0 and TR 25.840 v1.2.0 has been approved at RAN WG1 meeting #16 and #17, respectively. The major changes are as follows:

1. In version 1.1.0, expected gains in network side was added.
2. In version 1.1.0, TFCI based termination of gating was removed and only higher layer signalling is used for termination of gating
3. In version 1.2.0, RX gating features were added.

TR 25.840 will be presented during this RAN meeting (RAN #10) for approval as version 2.0.0.

Some issues on this WI were raised during the last RAN WG1 meeting (R1#17) such as "Outer loop power control during DPCCCH gating", and discussion on this issue will be continued at the next RAN WG1 meeting.

Several LSs have been sent from RAN WG1 to other WGs requiring them to start or continue the relevant studies.

RAN WG2

Introduction of gated DPCCCH transmission was planned earlier, but actually the gating was introduced during RAN WG2 meeting #16 because of a lot of discussions on Release 99 issues. At RAN WG2 meeting #17, it was also planned to present TR 25.840 v1.1.0 provided by RAN WG1 and the related contributions. But, there were too many Release 99 issues, and the presentation of those documents was postponed. Consequently, it has been decided to continue discussions on the WI "Terminal Power Saving Features" on the e-mail reflector and to report the result of the e-mail discussion at the next RAN WG2 meeting.

RAN WG3

TR 25.938 "Terminal Power Saving Features (Iur/Iub Aspects)" aimed to the discussion on the WI "Terminal Power Saving Features" in RAN WG3 was approved at RAN meeting #9 as version 0.1.0. RAN WG3 meeting #17 has updated TR 25.938 as version 0.1.1 with text proposal containing requirements and signaling in Iur and Iub, and TR 25.938 v0.1.1 will be presented to RAN meeting #10 for information.

RAN WG4

TR 25.840 v1.1.0 provided by RAN WG1 has been introduced during RAN WG4 meeting #14. Future works planned in WG4 are as follows:

1. Make a test scenario to evaluate minimum performance requirements to support the gated DPCCCH transmission.
2. Perform simulation according to the approved test scenario.