TSG RAN WG1 #14 June 21-23, 2000 Tdoc R1-00-0887

Oulu, Finland

Source: TSG RAN WG1 Chairman

Report from TSG RAN#8 (Including Conclusions from the narrowband TDD Ad Hoc)

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Executive Summary

- All Release -99 CRs were approved, expect CR 25.211-059 which was put on hold to clarify few items related to it in WG1
- Technical report on narrowband TDD was presented
  - RAN view was to use the existing specs with different sections when appropriate
- Release 2000 procedure and work/study items were reviewed
- Release -99 two open items reported (to be handled as corrections)
  - 25.214 the power control for UE in SHO
  - 25.224 the TDD power control with multiple time slots (more exactly with multiple CCTrChs expect the limits what UTRAN is allowed to do)
- Release 2000 work not progressed much in RAN WGs

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Open Item in 25.214 Physical Layer Procedures (FDD)

- The following open item was reported to TSG RAN:
  - As suggested by RAN WG4, the UE TPC behaviour in SHO needs to be a bit more exactly specified. CR to be produced from the next WG1 meeting

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Open Item in 25.224 Physical Layer Procedures (TDD)

- The following was reported to the TSG RAN:
  - Power control in multislot cases might need some further work (based on the discussed in the narrowband TDD Ad Hoc)

RAN WG1 Technical reports (25.928)

- TR 25.928 1.28 Mcps UTRA TDD Physical Layer proceeded a great deal, items that remained to be worked on were as concluded by the physical Ad Hoc:
  - The benefits (motivation) of the specific features of narrowband TDD, including:
    - uplink synchronisation
    - fast TPC for uplink
    - beamforming
  - GSM measurements (due different frame structure and slot length)
- - There are also less important details that can be covered in the specification work later
- - The description (differences/similarities) side made big progress in the TR
- Ref: Ad Hoc report: Tdoc R1-00-0842, TR 25.928 see RP-00-0280

How to proceed after the important items still to be covered for TR 25.928 are done

- **Should RAN WG1 create Separate specifications or CRs to the existing RAN WG1 specifications? RAN guidance:**
- **25.201 should cover also narrowband TDD (General Description)**
- **25.221-25.225 CR procedure, separate section when appropriate**
- **25.944 TR on multiplexing and channel coding examples should also narrowband TDD**

- **It should be noted that before approval all CRs should be available for all RAN TSG. Milestone set for TSG RAN#10**

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Release 2000 Study/Work Item Discussions reported

- Terminal power saving features:
  - Proposal on DPCCH gating was discussed. Contribution was made that gating when DCH only doe not necessary make sense but with DCH+DSCH could be clearer benefits. (DCH should be released as soon as possible when there is not data)
  - The view to proceed with studies towards DCH+DSCH case was supported by several companies
- Radio Link Performance Enhancements
  - The proposals on TX diversity enhancements have been discussed. There is not yet WG1 agreed particular solution that should be included in Release 00
  - WG1 would however have the possibility to bring CRs to RAN#9 if the work has converged (and there is consensus in WG1)
- Inter-frequency and inter-system handover improvements
  - Proposal for multi-frame compressed mode (uplink) under

Release 2000 Study Item Discussions reported (2)

- High Speed Downlink Packet Access:
  - In both meetings two overview documents were presented
- Improved cell RACH/FACH state
  - First simulation results were presented. Discussion has continued in the reflector after WG1#12
- Radio Link performance enhancements
  - Method for combining turbo decoding with soft handover (downlink) was presented. Discussions expected to continue
- LAS-CDMA
  - Presentation of the topic was made at the end of WG1#12, it was noted that proposal in not backwards compatible with current specification as propsals based on changed spreading and scrambling. WG1 is not expect to proceed with this unless instructed otherwise by TSG RAN.

Release 2000 Work/Study Items

- There were editorial clarifications done for the Work Item Sheets
- For the study items High Speed Downlink Packet access and Feasibility study for the Improved DL common CH for cell FACH state the leading WG was set to be WG2
  - There is obvious need for coordination with RAN WG2 how the issues in the responsibility of WG1 are covered.
  - It is suggested to start the TR in WG1 with items like link level simulation assumptions (and later add results) and then to proceed to other areas after discussion with RAN WG2
- The milestone for CRs approval was set to TSG RAN#10 but this does not remove the need from WG1 to have conclusions on several items as planned in the TSG RAN#9 to allow other WGs to proceed.

Release 2000 work/study item procedure (1)

- **Work Item description sheet principles:**
  - **-Rapporteur of the work item is responsible for updating the list of affected specs in the work item sheet and the status of the work affected specifications. Responsible WG will provide the update to TSG RAN plenary. Reporting will be made by the Chairman of the responsible WG.**
  - **-The WI sheets would be put forward for endorsement at each future TSG-RAN plenary meeting and serve as the basis for all discussion on each Work Item.**
  - **-MCC will compile the documents with all work item sheets. One documents will contain all Work Item Description sheet per Features/Building blocks (or one document per leading WG to facilitate the discussion).**
  - **-To change the scope of the work item sheet, a separate proposal needs to be done to TSG RAN:**

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Release 2000 work/study item procedure (2)

- Technical Reports per Work Items principles (1)
  - -For all WIs approved by the TSG-RAN plenaries by default, it should result in the elaboration of a Technical Report under the responsibility of the leading WG. In particular cases, following advice from the responsible WG, the TSG-RAN plenary might take the decision of not requesting this report (e.g. because this report would be void).
  - -First the leading working group creates a TR which summarises the motivation (i.e. the gains compared to existing specifications), requirements on the solution and the overall concept.
  - -Once the leading WG reaches the stage that other WGs should be involved, they will inform other working groups to evaluate the impact of the proposed concept to their specifications

Release 2000 work/study item procedure (3)

- Technical Reports per Work Items principles (2)
  - The other WGs will capture the impact to their specification either on a TR maintained in that WG or in case of minor impact they may provide input to the TR maintained in the leading WG. The rapporteur will incorporate in the main report the part of the reports from the other WG.
  - -The TR should include an assessment of backward compatibility to earlier releases of the system.
  - -The TR in a WG can be used as place holder for decision on draft CRs. It is not recommended to incorporate them in the Technical Report because before presentation of the full pack of CRs time might had elapsed and therefore it might be necessary to revise the CR because the approved version of the referenced specification might have changed.

Release 2000 work/study item procedure (4)

- **Finalisation of Work Items**
  - **-When all CRs for a WI have been approved in all WG, they are brought for approval for the next TSG RAN as one package. In case several Work Items have direct dependency (i.e. one WI does not work in absence of completion of another WI), they need to be approved as one package.**
  - **-In case of a study item, TSG RAN shall first take a decisions on inclusions or exclusions of particular concepts in a given Release based on the results of the study item. If concluded positively, a Work Item may be created by TSG-RAN.**

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Annex 1. RAN WG1 meetings left for year 2000

- **WG1#14 July 4-7 (Oulu, Finland, Host: Nokia)**
- **WG1#15 August 22-25 (Berlin, Germany, Host: Siemens)**
- **WG1#16 October 9-13* (Korea, Host: TTA)**
- **WG1#17 November 20-24* (Sweden, Host: Ericsson)**
- *** Note: Dates indicate the week, meeting duration typically 4 days**
- ***WG1#18 January 16-19 (Tentative)***
- ***WG1#19 around end of February (Tentative),***
- ***WG1#20 Mid May (Tentative)***
- ***(potential physical ad hoc in April)***

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