

TSG RAN#12 June, 2001

Tdoc RP-01-0329

Stockholm, Sweden

Source: TSG RAN WG1 Chairman

Report from TSG RAN WG1 chairman to TSG RAN#11

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WG1 CR list: RP-01-0330

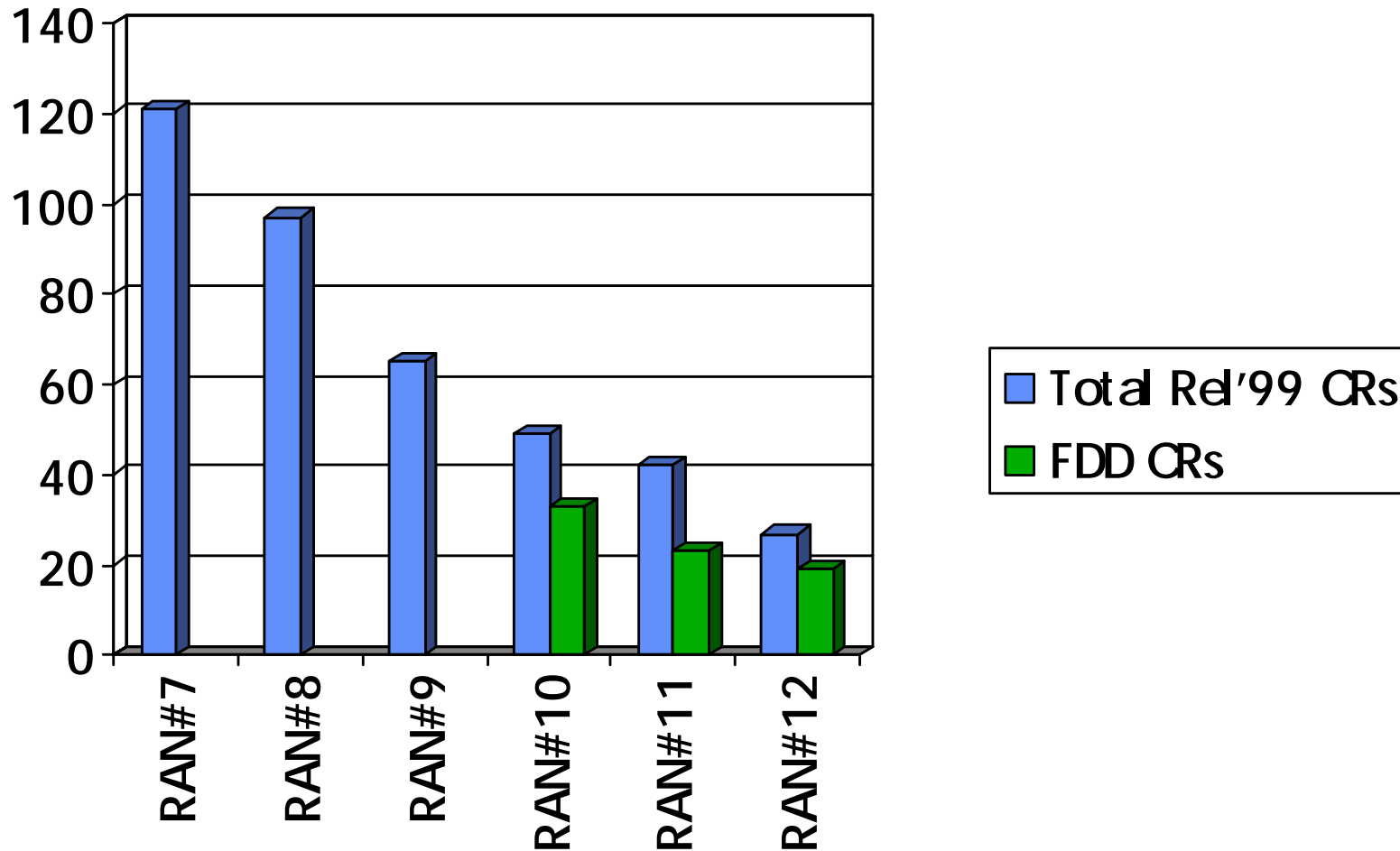
Executive Summary

- Release -99 CRs further reducing, down to 27 CRs, 19 for FDD.
- Few Release 4 CRs agreed on TDD + 1 for FDD
- Highest number of papers for High Speed Downlink Packet Access (HSDPA), first details agreed.
- In the last meeting some Rel'5 related papers were not treated, most time spend on HSDPA (3 days) and Rel'99 issues (1 day approx.)

Release -99

WG1 CRs (REL-99) for RAN#12

- **TOTAL 27 CRs for RAN#12 approval**



25.211 Physical Channels and Mapping of Transport Channels to Physical Channels

25.212 Multiplexing and Channel coding

25.213 Spreading and Modulation

- **DL DPCCH for CPCH phase reference clarification**
- **Compressed mode by puncturing corrections**
- **DSCH corrections, mainly rate matching, "root code" definition**
- **Clarification for DL channelisation code alignment**
- **Open Item: Power balancing needing some work between WG1/WG3 (accuracy issue still in WG3 specs)**

25.214 Physical Layer Procedures (1)

- **25.214 7 CRs**
- Limited power raise: aligning of terminology with TS25.433
- Correction of IPDL burst parameters
- Correction of synchronisation primitives
- Clarification on TPC command generation on downlink during RL initialisation
- Clarification of initialisation of closed loop mode 1 and 2 during compressed mode
- DL maximum power level in compressed mode

25.214 Physical Layer Procedures (2)

- 25.214 Cont.
- Clarification of synchronisation procedures (CRs 180/181)
 - This has raised a lot of discussion on the reflector with one of the key items being UE behaviour with phase reference change
 - Two problems raised:
- Behaviours when:
 - 1. The radio link(s) is moved to another cell on the same frequency and the timing is re-initialised
 - 2. When the DL phase reference is changed Open Item: CPCH related CR to be covered later for the access procedure (one unnecessary parameter to be removed)
- Recommendation: Reject CR 180/181 and have return to the revised one later (revised proposal in Tdoc RP-01-0441)

25.215 Measurements (FDD)

- **BLER measurement clarifications**
 - **Alignment with WG2 (removal BLR measurements from S-CCPCH)**
- **LCS measurements terminology alignment**

25.221 - 25.225 TDD specifications

- **Midamble usage and timing advance corrections**
- **Minor terminology and abbreviations**

RAN WG1 Technical reports (Rel'99)

- **TR 25.944 Multiplexing and channel coding one CRs provided on TDD sections.**

Release 4

Release 4 (only) CRs provided on following items

- 25.214 clarification for the use of SSDT signaling in the uplink only
- 4 TDD specific CRs, minor corrections and IPDL parameters corrections. (IPDL for TDD from Rel'4 onwards, similar correction was done for FDD Rel'99)

Release 5 work/study items

Release 5: DPCCH gating

- Joint meeting with WG1, WG2 and WG3 experts
 - Conclusions: Work on DPCCH gating to stop in WG1 unless some new information would be raised in WG2/WG3 side that would change the situation with respect the possible merits between activating the DPCCH gating and moving to cell FACH state.
- Status report in Tdoc RP-01-0418

High Speed Downlink Packet Access (HSDPA)

- **HSDPA Ad Hoc with WG2 took place April 5-6 in Sophia Antipolis, France.**
- **In WG1#20 more than 50 papers on the topic covered, joint session with WG2 also held on the issue.**
- **See separate report for further detail**

Rel'5 Study Item: USTS

- **Uplink Synchronous Transmission.**
- **WG3 indicated their positive conclusions on the feasibility, which was indicated in the last TSG RAN to be the reason to wait for the WI creation**
- **See separate status report in Tdoc RP-01-0427**

Rel'5 study item: Improved cell FACH state

- **Study item should be extended to TSG RAN#13**

Release 5 Progress

- **Radio Link Performance Enhancements**
- **The deadline for the conclusions for new TX diversity methods for TSG RAN#12.**
 - **TR was created, it was agreed that no new TX diversity methods for the 12/01 schedule, work to continue to define e.g. the CPICH structures to be used in the evaluation work**
 - **See Tdoc RP-01-0344 for TR (for information for TSG RAN)**
- **Enhanced SSDT proposal was discussed. Work to continue based on the comments received**

Release 5 Progress

- **1.28 Mcps TDD node B synch**
 - **TR outline agreed**
- **DSCH hard split enhancement**
 - **TR outline agreed**
- **Items not covered included:**
 - **UE Positioning enhancement for 1.28 Mcps TDD**
 - **MIMO, USTS, FCS, Terminal power saving features**

Release 5 Progress

- **3 Day Ad Hoc for Release 5 issues with following items agreed to be held in June (see next slide):**
- -HSDPA
- -Channel modeling (MIMO), Pilot issue (structure)
- -New topics for radio link performance enhancements
- -TDD Node B synch + UE positioning
- -DSCH hard split mode
- -USTS
- **Improved cell FACH state (added later to the agenda)**

Annex 1. WG1 Meetings since TSG

RAN#11

- *HSDPA ad hoc with RAN WG2, April 5-6, (Sophia Antipolis, Host ETSI)*
- *WG1#20 May 21-25, (Pusan, Korea, Host Samsung)*

Annex 2. Coming TSG RAN WG1 meetings

- *WG1 Rel'5 Ad Hoc June 26-28 (Espoo, Finland, Host Nokia)*
- *WG1#21 August 27-31 (Turin, Italy, Host TiLab)*
- *WG1#22 October 8-12 (Host needed)*
- *WG1#23 November 19-23 (Korea, Host Samsung)*