TSG RAN#18 December 3-6, 2002 **Tdoc RP-02-0832**

New Orleans, US

Source: TSG RAN WG1 Chairman

Report from TSG RAN WG1 chairman to TSG RAN#18

Antti Toskala

TSG RAN WG1 Chairman

Nokia Networks

WG1 CR list: RP-02-08xx

Executive Summary

- **One full WG1 meeting since last TSG RAN#17 & One Rel'6 Ad hoc meeting.Also joint Ad Hoc on MIMO channel modelling with 3GPP2 10/02 (in connection with a 3GPP2 meeting)**
- **Release -99 CRs 0 for FDD, 1 for TDD**
- **Release 4 CRs total is 1 FDD, 6 TDD CRs**
- **Release 5 CRs**
  - **HSDPA Related: 5**
  - **Others 4 CRs,**
  - **+ 2 technically correct ones as company input (+ revised based on WG2 discussions)**
- **More than 50% the meeting time used for Rel'6.**

A GLOBAL INITIATIVE

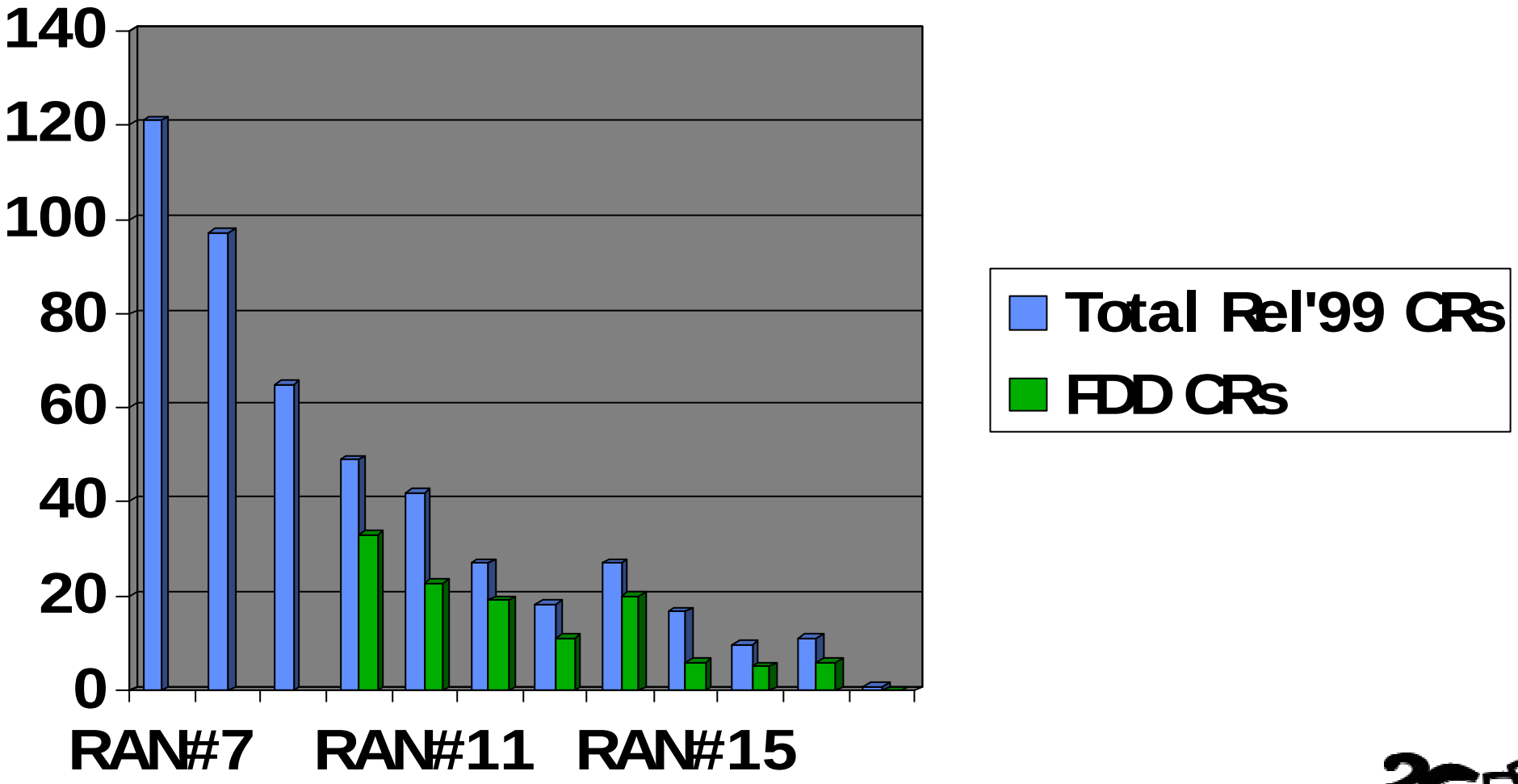
Release -99

Rel'99 General

- For Release'99 no FDD CRs, only 1 TDD CRs
- For FDD the issues were:
  - Related to the closed loop mode transmit diversity the point in WG2 specifications with the parameters timing adjustment mode. The question was raised if the parameter is for each radio links separately or common for all radio links
- For TDD the issues were:
  - Correction of incorrect implementation of recently approved CR

WG1 CRs (Rel'99) for RAN#18

- **TOTAL 1 Rel’99 CRs for RAN#18 approval, 0 for FDD**



A GLOBAL INITIATIVE

25.211 – 25.215 FDD specifications

- **No CRs**

25.221 - 25.225 Rel'99 TDD specifications

- 25.224
  - CR implementation error (headings)

Release 4

Rel-4 (only) CRs provided on following items

- FDD
  - Received total wideband power (also TDD)
  - There was a CR proposed for clarification of the TX diversity (closed loop) timing adjustment in SHO. There was one view expressed that this is not a clarification only and thus should go to Rel'5 instead (as an improvement) There are WG2 CRs related to this as this is more RRC issue. Technically correct WG1 CRs should be made available to RAN plenary (and issue is to be decided as package with WG2 RRC CRs)
- TDD
  - Numbering corrections
  - Figure Correction

Release 5 CRs

Rel-5: HSDPA Related Issues

- 5 CRs provided on various issues
- Last RAN reported issues were:
  - Applicability of TX diversity (closed loop) mode 2
  - No conclusions, spec says FFS about applicability, RAN guidance what to do asked (should be yes or not, optional alternative rejected in the meeting)

  - HS-DPCCH operation in SHO, are some further enhancements needed, not fully closed, RAN view asked
  - Alternatives:
    - Do nothing
    - Include the CRs provided (technically correct, not fully agreed, related also to WG2 discussions) (source by Individual companies)
    - Include the CRs provided + investigate additional methods for the cases when requirements are not necessary met

    - See the the CRs in RP-020822 and RP-020850 with and without higher layer impacts)

Rel-5: Other activity

- Enhanced DSCH power control, CR approved to remove the interaction with the Qth parameter (introduced by the support of SSDT in UTRAN Rel’5 WI)

Release 6 activity

Rel-6: issues (see separate status reports) (1)

- The new topic for TDD power control raised to be covered with the radio link performance enhancements SI (RP-020704)
- FCS (intra-Node B FCS) discussed (all papers) (RP-020705)
- Beamforming enhancements discussed (all papers) (RP-020702)
- TX diversity discussed (all papers) (RP-020704)
- OFDM discussed (all papers) (RP-020708)
- Enhanced Uplink DCH discussed (all papers) (RP-020709)
- 1.28 Mcps TDD inter-system HO discussed (all papers) (RP-020707)
- Analysis of higher chip rates for UTRAN evolution (TDD) discussed (all papers) (RP-020710)
- HSDPA Rel'6 issues (part of radio link performance enhancements, not all papers covered) (RP-020704)
- Status of the MIMO channel modeling reviewed (on-going with 3GPP2) (RP-020699)

Rel-6: issues (see separate status reports) (2)

Issues coming from other WGs

- Papers on MBMS were presented. WG2 provided with LS with first WG1 views (under WG2) (RP-020694)
- Enhancements to OTDOA positioning discussed (not all papers due lack of availability when topic was discussed) (under WG2) (RP-020696)

Issues coming from discussions for the attention of other WGs/TSG RAN

- WG1 discussed the paper on the PAR (Peak to Average) isssues, The topic was felt more suitable to WG4 (no separate LS sent, was addressed in WG4 later on)
- The TX diversity timing adjustment mode performance aspect should be considered by WG4 + as well as the whole issues of TX diversity in SHO woith DSCH/HS-DSCH
- There was discussions also whether some RABs should be taken way from 34.108. Proposal was not agreed.

Annex 1. TSG RAN WG1 meetings

- WG1#28bis 9-10.10.2002 Espoo, Finland (Host Nokia)
- WG1#29 5-8.11.2002 Shanghai, China (Host Samsung)
- **WG1#30 7-10. 1 2003 San Diego, US (Host Qualcom)**
  - **Includes Joint Spatial Channel Modeling (SCM) Ad Hoc with 3GPP2**
- **WG1#31 18-21. 2. 2003 (Tokyo, Japan) (Host NTT DoCoMo)**
- **WG1#32 7-11.4.2003 (4 days) (Seoul, Korea) (Host Samsung)**
- **WG1#33 19-23.5.2003 (Paris, France) (Host European Friends of 3GPP)**
- **WG1#34 25-29.8.2003 (tentative, host needed)**
- **WG1#35 6-10.10.2003 (tentative, host needed)**
- **WG1#36 17-21.11.2003 (tentative, host needed**

3GPP
A GLOBAL INITIATIVE

Annex 2: Updated WG1 Email Ad Hocs Codes

- **AH61 = Interfrequency and intersystem measurements (e.g. compressed mode)**
- **AH62 = MIMO and TX diversity**
- **AH63 = Beamforming**
- **AH64 = Enhanced Uplink DCH**
- **AH65 = OFDM**
- **AH66 = Higher Chip rate TDD**
- **AH99 = Release -99 issues**
- **AH40 = Release 4 issues**
- **AH50 = Release 5 issues (HSDPA etc.)**