



Report from WG3 chairman to TSG-RAN #20

Alexander Vesely
RAN WG3 Chairman



Meetings since RAN#19

- **RAN WG3#35 cancelled (7 – 11 April, Seoul, Korea)**
 - “Cybermeeting” held via e-mail correspondence in order to handle LSs and RAN tasks
- **Joint RAN2&3 on MBMS, 15 – 16 May, Paris, France**
- **RAN WG3#36, 19 – 23 May, Marne la vallée, France**



Executive summary

- **The amount of R99 & Rel4 CRs is negligible**
 - 5 R99 CRs (w/o mirror CRs for Rel-4 and Rel-5)
 - 10 Rel-4 CRs (w/o mirror CRs for Rel-5)
 - 45 Rel-5 only CRs (majority HSDPA)
 - Complete list of CRs (R99, Rel-4 & Rel-5) in RP-030313
- **R99 +mirror CRs requires less than 20% of meeting time**
- **2 sets of technically correct Early UE CRs are available**
(contained in the R99 CR statistic)
- **Progress on long-lasting HSDPA discussions**
- **Progress on RAN3 Rel-6 topics is overall satisfying**



Actions on WG3 from TSG RAN #19

Verify the delays used by SA WG4 in the test for the conversational services in PS domain (RP-030127)

↪ Answer LS available in RP-030231

Review the Description Sheet of the “lu enhancements for IMS support in the RAN” WI (RP-030191)

↪ e-mail discussion started during “cybermeeting”. contributions received at RAN3#36, however no change of WI was proposed. close relation to SA2 was proposed, however no LS to SA2 was drafted.

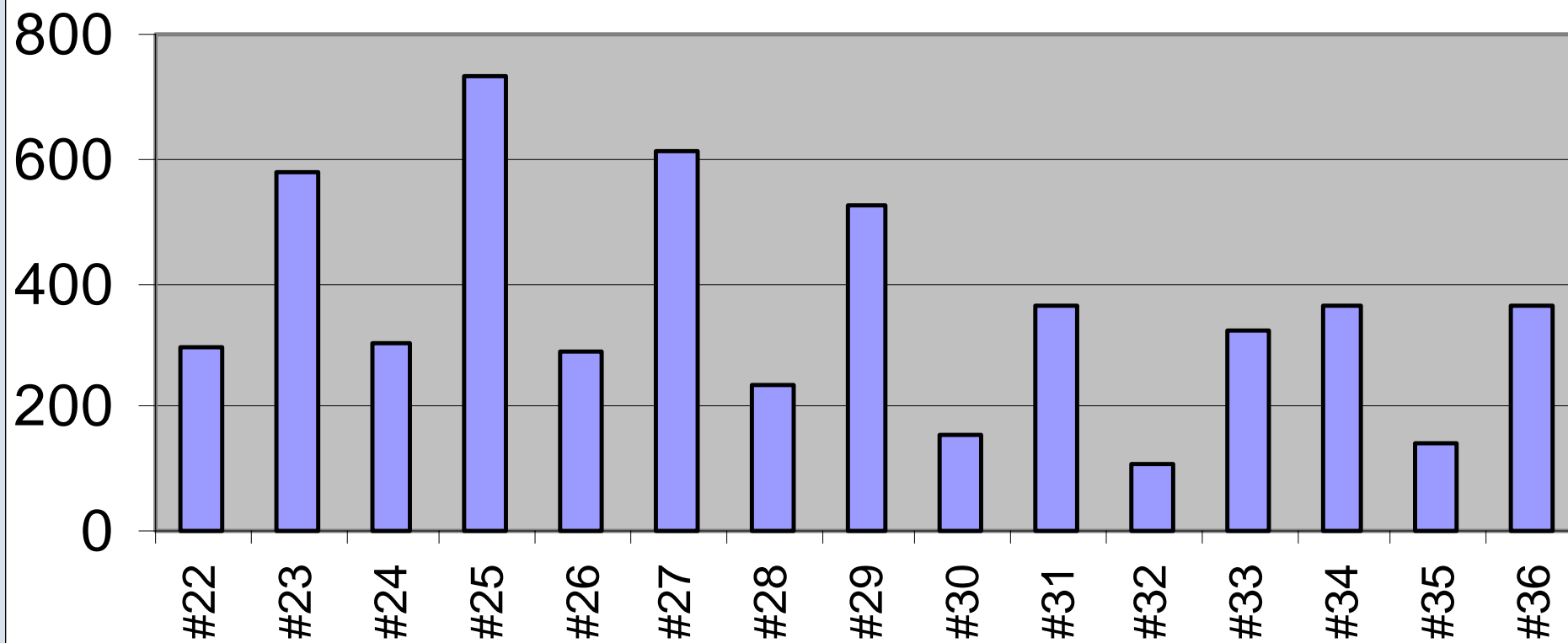


Early UE RANAP CRs

- **Two sets of technically correct RANAP CRs available (R99/Rel-4/Rel-5 CRs for the bitmap (RP-030339) and the IMEI-SV solution (RP-030340))**
- **These CRs already reflect latest SA2 status (a new procedure was introduced on lu to provide UESBI-lu before the Common Id procedure.)**



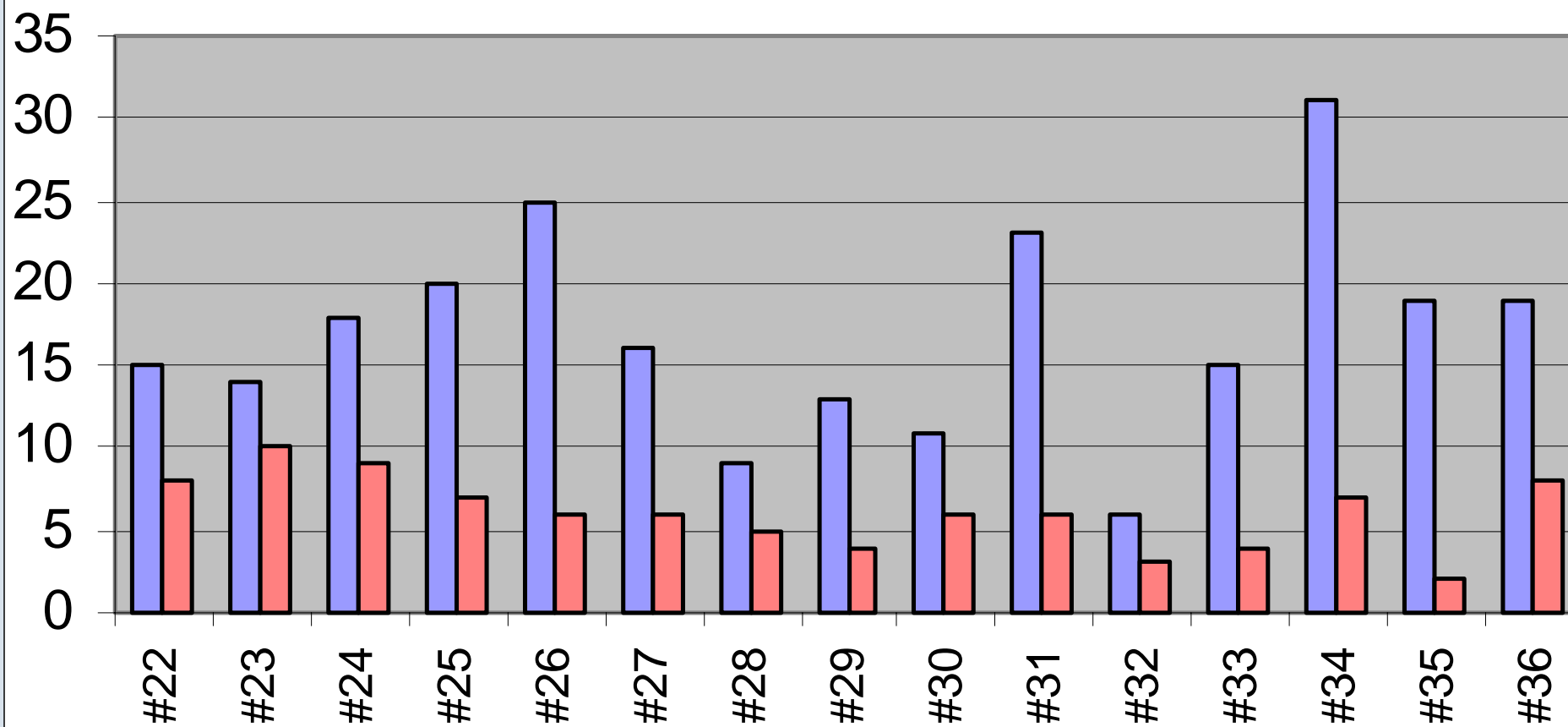
Total #Tdocs per RAN3 meeting





Liaisons per RAN3 meeting

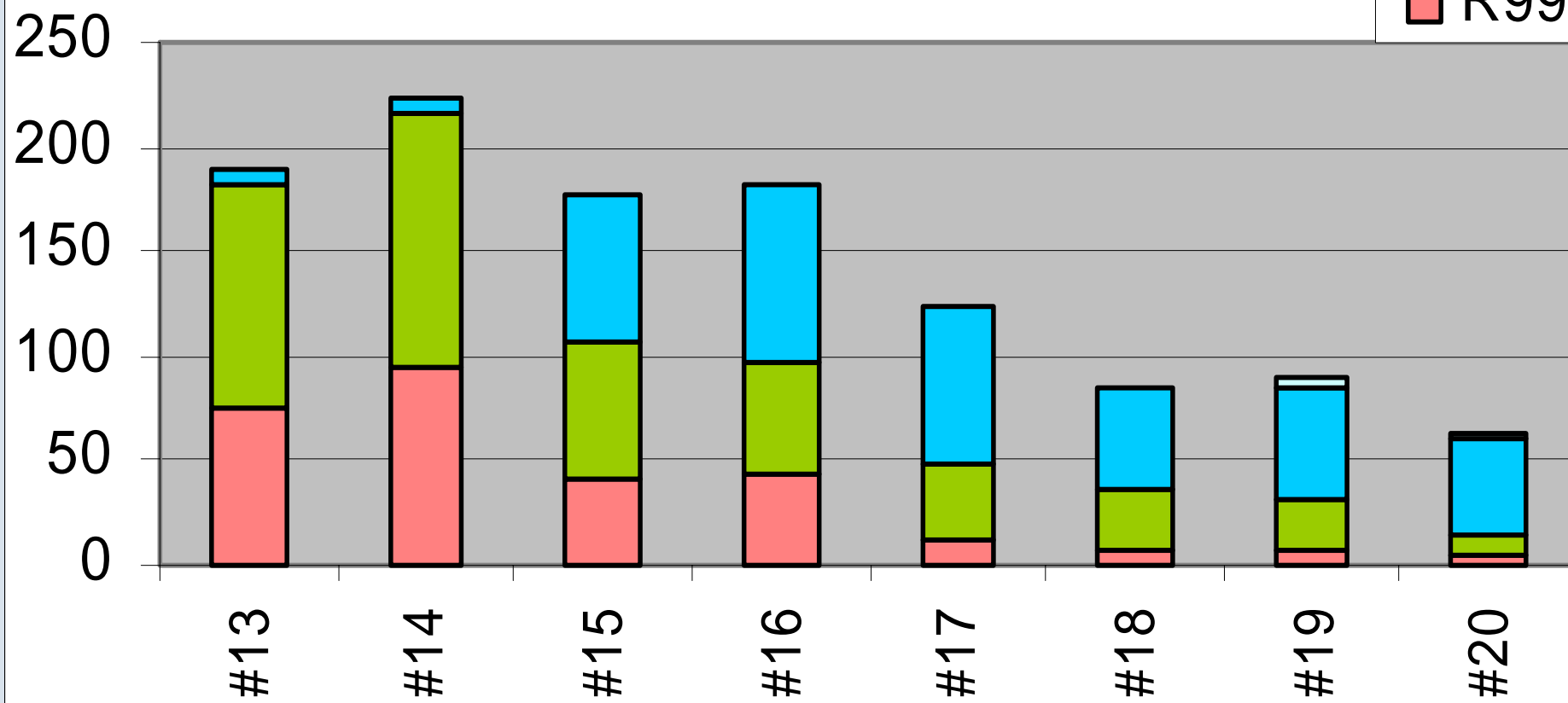
■ In
■ Out





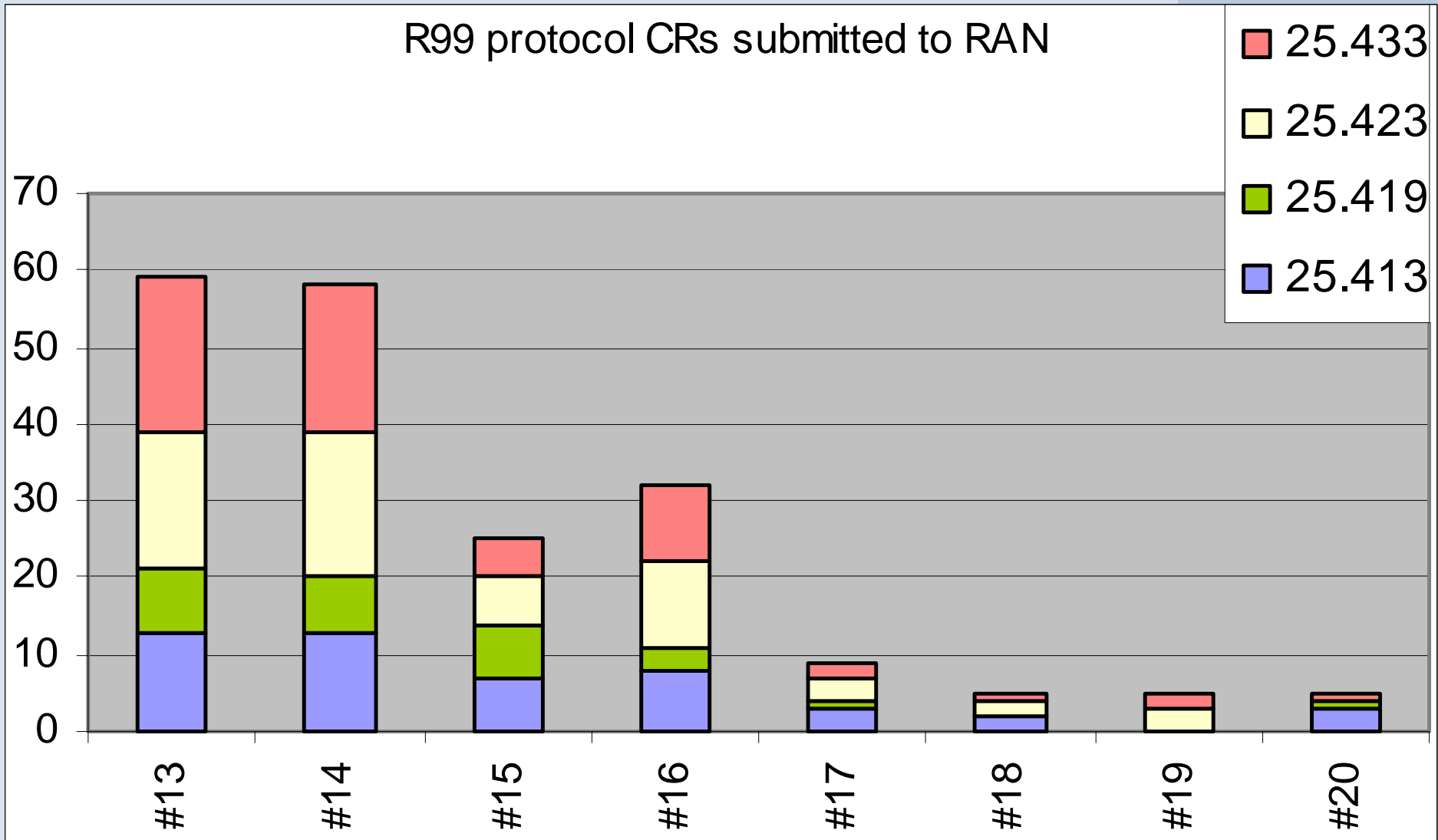
Total # of CRs submitted to RAN

- Rel6
- Rel5
- Rel4
- R99



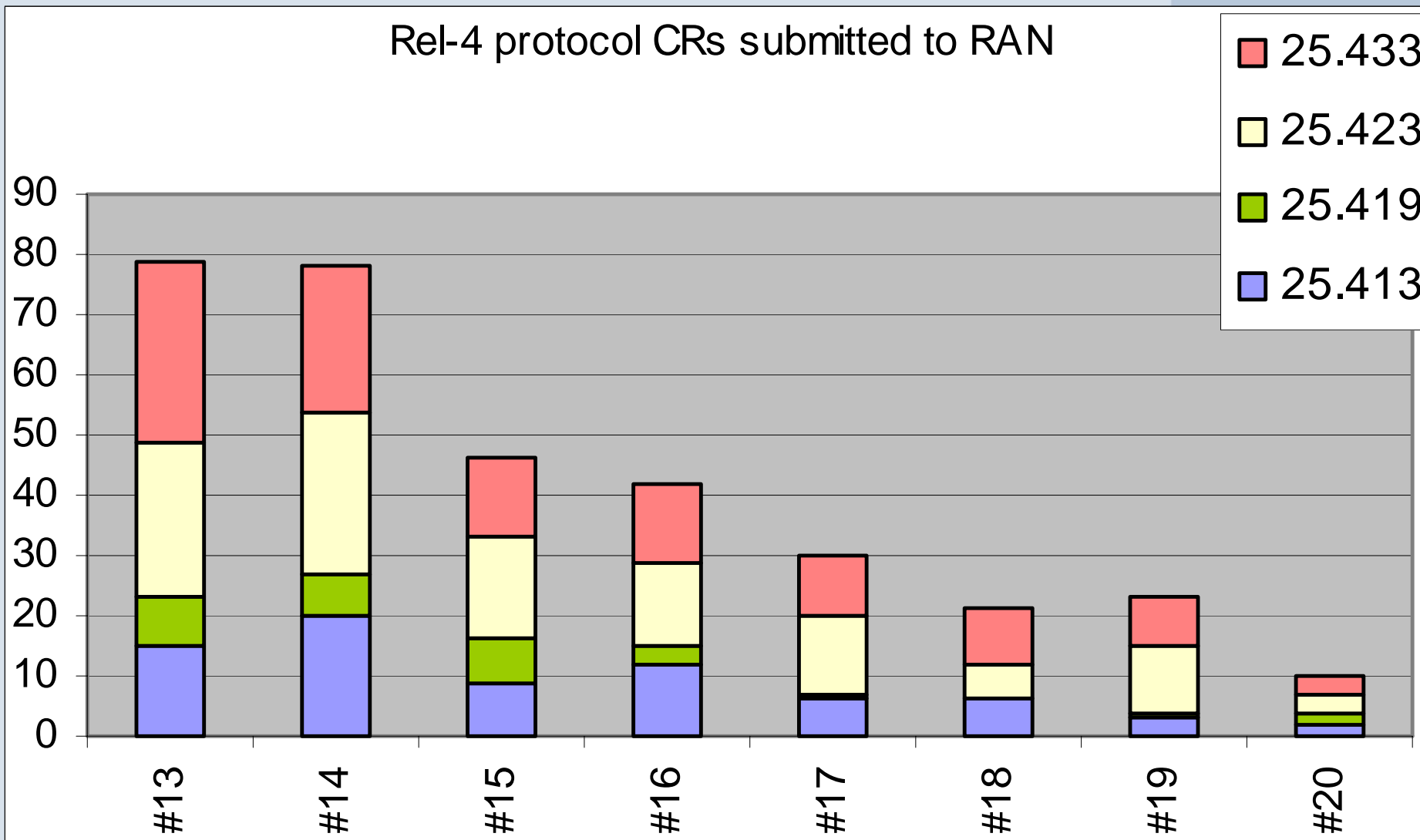


R99 protocol CRs submitted to RAN



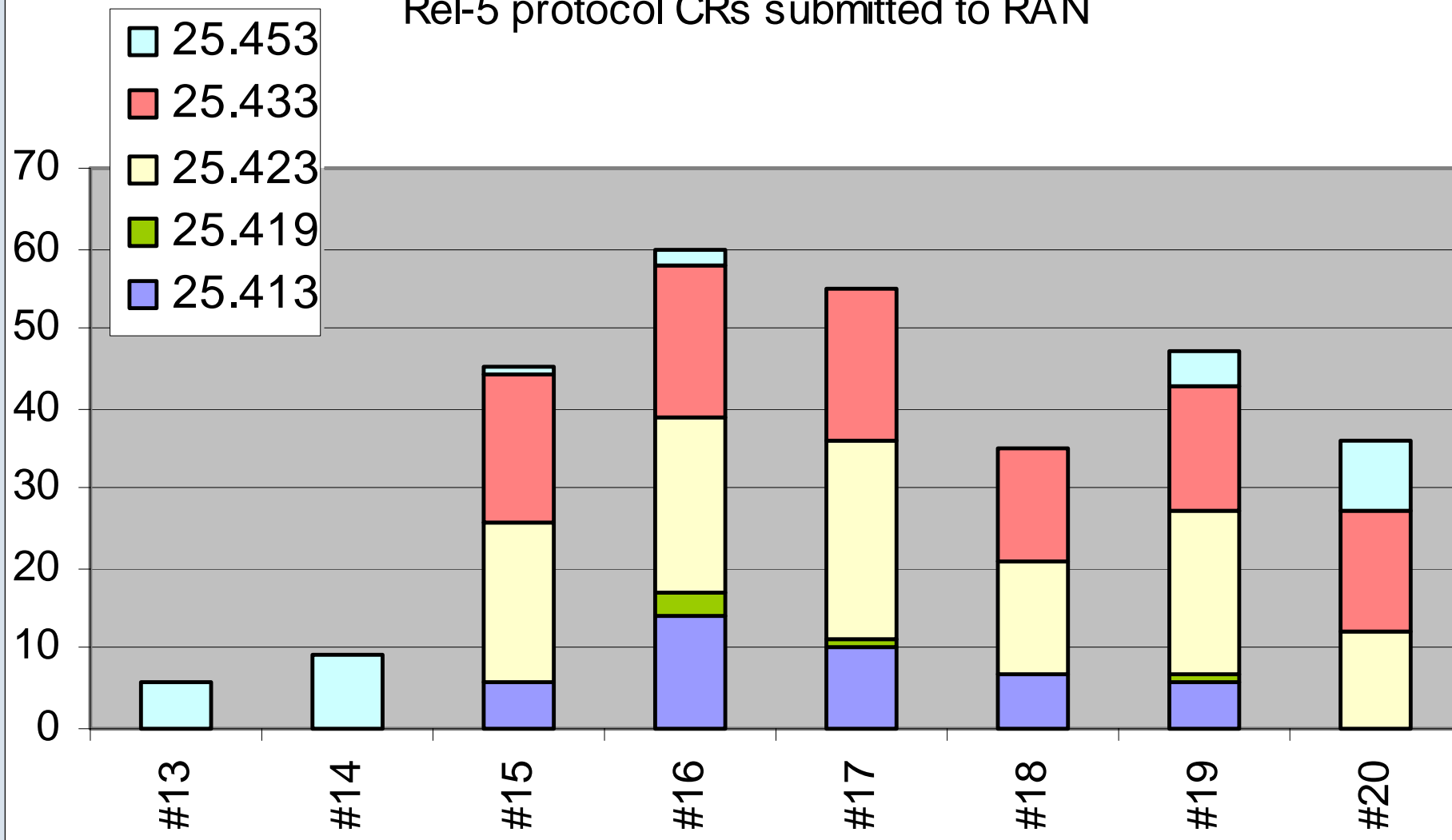


Rel-4 protocol CRs submitted to RAN





Rel-5 protocol CRs submitted to RAN





R99 and Rel-4 activities



Topics for R99 CRs

- **Correction of RANAP for user inactivity** (RAB and signalling inactivity)
 - LS to SA2 sent to align 23.060 accordingly
- **Correction for power settings in case of Tx Diversity**
 - technically correct CRs for 25.423 and 25.433 available
- **SABP corrections** („Kill“ procedure)

Topics for Rel4 CRs

- **Iu UP Initialisation during RAB modification**
 - LS to CN4 sent to align 23.153 (OoBTC) accordingly



Release 5 specific activities



HSDPA lub/lur protocol aspects

- **about 40 contributions submitted**
- **24 agreed + 1 technically correct CRs**
- **agreed issues**
 - ✓ RRM Measurements - HSDPA power
 - CRs agreed for Guaranteed Bit Rate Resource handling
 - an indication of a list of “costly” UEs included
- **open issues**
 - Multiple MAC-d Flows per Transport Bearer
 - possible enhancement for Rel-6
 - Discard Timer for expired MAC-d PDUs
 - CRs discussed, LS to SA4 / SA2 / RAN2
 - RRM Measurements - Code Utilisation
 - agreed to be part of Rel-6



Interworking between IP nodes and ATM nodes

- **Three ATM-IP interworking options were agreed for the Rel-5 IP transport option:**
 - dual stack for IP node
 - TNL interworking function as logical part of the UTRAN node
 - external TNL interworking function
- **IETF Pseudo-Wire Emulation End-to-End (PWE3) was included in the study area of TR 25.933 as an option for dual stack operation (RP-030323)**



other Rel-5 issues

- **S-CCPCH power setting in case of no data transmission**
 - CR102r1 25.435 (RP-030321) was agreed in alignment with RAN1, i.e. power setting is defined to be implementation specific.
- **Group Reset**
 - CR820r2 25.423 (RP-030338) was agreed in order to align with RAN2 changes approved at RAN#19



Release 6 specific activities



FS on the Evolution of UTRAN Architecture

- a set of requirements was discussed and agreed
- basic company proposals for evolved architectures were discussed, a list of open issues was identified per proposal
- Although the time was quite limited for presentation and discussion the TR contains good starting material for future work.
- SI report in RP-030257



FS on Improved Access to UE Measurement Data for CRNC to support TDD RRM

- significant progress
- 3 possible solutions including an complexity analysis are captured in the TR.
- the only remaining work is to finalize the conclusions and agree on the correct solution
- TR 25.801 provided in version 1.0.0 for information (RP-030342)
- SI report in RP-030260



- **Network Assisted Cell Change (NACC) from UTRAN to GERAN – Network-Side aspects**
 - documents dealing with background info and input for the study area sections agreed
 - WI Report in RP-030262
- **Iu enhancements for IMS support in the RAN**
 - two discussion documents treated, no agreements
 - WI Report in RP-030254
- **Remote Control of Electrical Tilting Antennas**
 - Skeleton TR agreed, WI Report in RP-030261



Not progressed RAN3 WIs

- **CRRM (Improvement of RRM across RNS and RNS/BSS)**
 - No documents treated at RAN3#36. WI Report in RP-030255
- **MIMO Iub/Iur Aspects**
 - no contributions, WI Report in RP-030239



(R2 WI) Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN

- Adhoc on MBMS was held on Thursday and Friday before RAN3#36 meeting
- Worksplit between RAN2 and RAN3 clarified
- substantial agreements, working assumptions and questions communicated to SA2 (see R3-030896)
 - UE Linking
 - Session Start
 - Iu Bearer establishment (agreement offline at RAN3#36)
 - working assumption on drift RNC scenarios
 - Questions to SA2 on MBMS Service Area definition and session duration indication



(R2 WI) Open SMLC-SRNC interface within the UTRAN to support UTRAN Rel'4 positioning methods

- **Two remaining open issues were closed at RAN3#26**
 - Equivalent to “Round Trip Time” measurement for TDD mode
 - CR035 to TS 25.453 was agreed
 - Support for of “Pathloss” or similar measurement: CR028 to TS25.453:
 - a technically correct CR028 to TS 25.453 is available
 - CRs in RP-030341



(R1 WI) Beamforming Enhancements

- **Informal session held with RAN1 and RAN3 experts**
 - refer to RAN1 report on details
 - CRs to RNSAP and NBAP available on phase reference signalling (RP-030344)
 - according to the possibility to advance corrections for Rel-5 already (S-CPICH measurements missing) these CRs could be approved for Rel-5
 - agreed to be technically correct under the assumption that RAN1 understanding of the cell portion definition hasn't changed.



Not progressed non RAN3 WIs/SIs (1)

No contributions submitted for RAN3#36:

- ↪ (R1 WI) Improvement of inter-frequency & inter system measurements
- ↪ (R4 SI) UTRA Wideband Distribution Subsystems (WDS)
- ↪ (R4 SI) Viable deployment of UTRA in additional and diverse spectrum arrangements
- ↪ (R1 SI) Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD
- ↪ (R2 SI) Enhancements to OTDOA Positioning using advanced blanking methods.



Not progressed non RAN3 WIs/SIs (2)

- ↪ (R1 SI) Uplink Enhancements for Dedicated Transport Channels. No contributions submitted for RAN3#36.
- ↪ (R4 SI) Low Output Powers for general purpose FDD BSs
 - Skeleton TR submitted but not treated



Review of Trace WI concepts for Rel-6

- RAN3 was requested by RAN#19 to spend time on discussion the proposed Trace WI which could not be agreed at RAN#19 due to controversial discussions.
- a compromise solution that does not mandate the systematic sending of the IMEISV on each lu signalling connection was presented in (see R3-030718) and agreed to be technically feasible



Summary

- Amount of R99 and Rel-4 CRs small.
- Substantial agreements for HSDPA measurements
- Good progress on Rel-6 SIs/WIs, especially MBMS



Meetings 2003/2004

| Meeting | Dates | Venue, host |
|------------|---|--|
| WG3#35 | 7—11 April 2003 cancelled | Seoul, Korea, Samsung, (With R2) |
| WG3#36 | 19 – 23 May 2003 | Paris, France, EF3 (All RAN groups) |
| TSG RAN#20 | 3 - 6 June 2003 | Hämelina, Finland, Nokia |
| WG3#37 | 25 – 29 August 2003 | Budapest, Hungary, EF3 (With R2) |
| TSG RAN#21 | 16 - 19 September 2003 | Berlin, Germany, Tbd |
| WG3#38 | 6 – 10 October 2003 | Sophia Antipolis, France, ETSI (With R2) |
| WG3#39 | 17 – 21 November 2003 | San Diego, USA, (collocated with R2) |
| TSG RAN#22 | 09 - 12 December 2003 | tbd, HI, USA, ARIB/TTC/NF3 |
| WG3#40 | 16 – 20 Februar 2004 | Tbd, (Europe) (With R2) |
| TSG RAN#23 | 09-12 March 2004 | China |
| WG3#41 | 10 – 14 May 2004 | Tbd, (Asia) (With R2) |
| TSG RAN#24 | 01-04 June 2004 | Korea |
| WG3#42 | 23 – 27 August 2004 | Tbd, (Europe) (With R2) |
| TSG RAN#25 | 07-10 September 2004 | US |
| WG3#43 | 15 – 19 November 2004 | Tbd, (US) (With R2) (22-26.11 conflicts with Thanks Giving) |
| TSG RAN#26 | 07-10 December 2004 | TBD |