



# Status Report RAN WG3 to TSG-RAN #21

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RAN WG3 Chairman



## Meetings since RAN#20

✍ RAN WG3#37, 25 – 29 August, Budapest, Hungary



## Executive summary

- ✍ **The amount of R99 & Rel4 CRs is low**
  - 3 R99 CRs
  - 6 Rel-4 CRs (3 cat. A, 3 cat F)
  - 44 Rel-5 CRs (6 cat.A, 37 cat. F, 1 cat. B)  
(16 CRs on HSDPA)
  - 4 Rel-6 CRs (3 cat.A, 1 cat.C)
  - Complete list of CRs in RP-030411
- ✍ **R99 +mirror CRs required less than 20% of meeting time**
- ✍ **last major HSDPA issue closed**
- ✍ **Progress on RAN3 Rel-6 topics is satisfying**

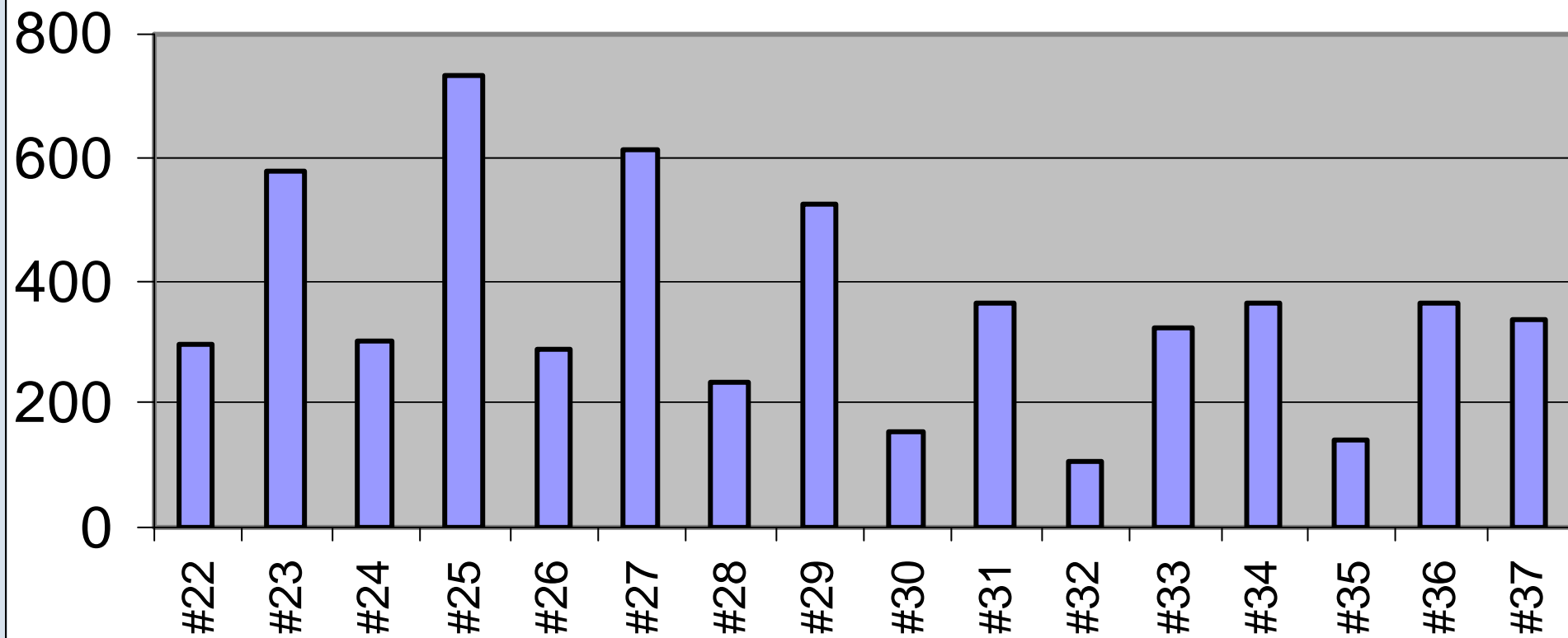


## Actions on WG3 from TSG RAN #20

- ✍ **To produce a corresponding lu i/f to support the CR to 25.305 in RP-030399**
  - CR586r2 25.413 Rel-5 available in RP-030439 (R3-031234)
  - the used positioning method will be signalled on lu



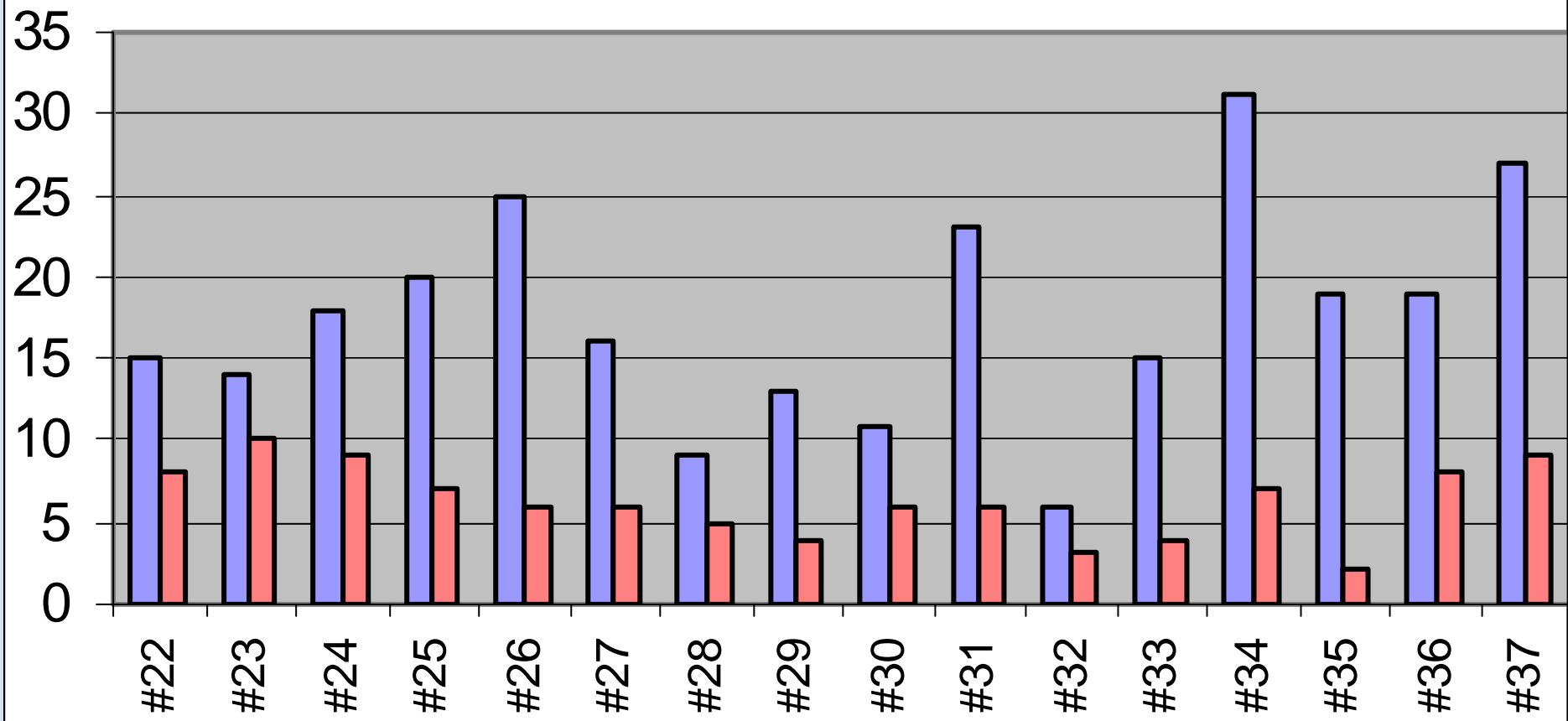
### Total #Tdocs per RAN3 meeting





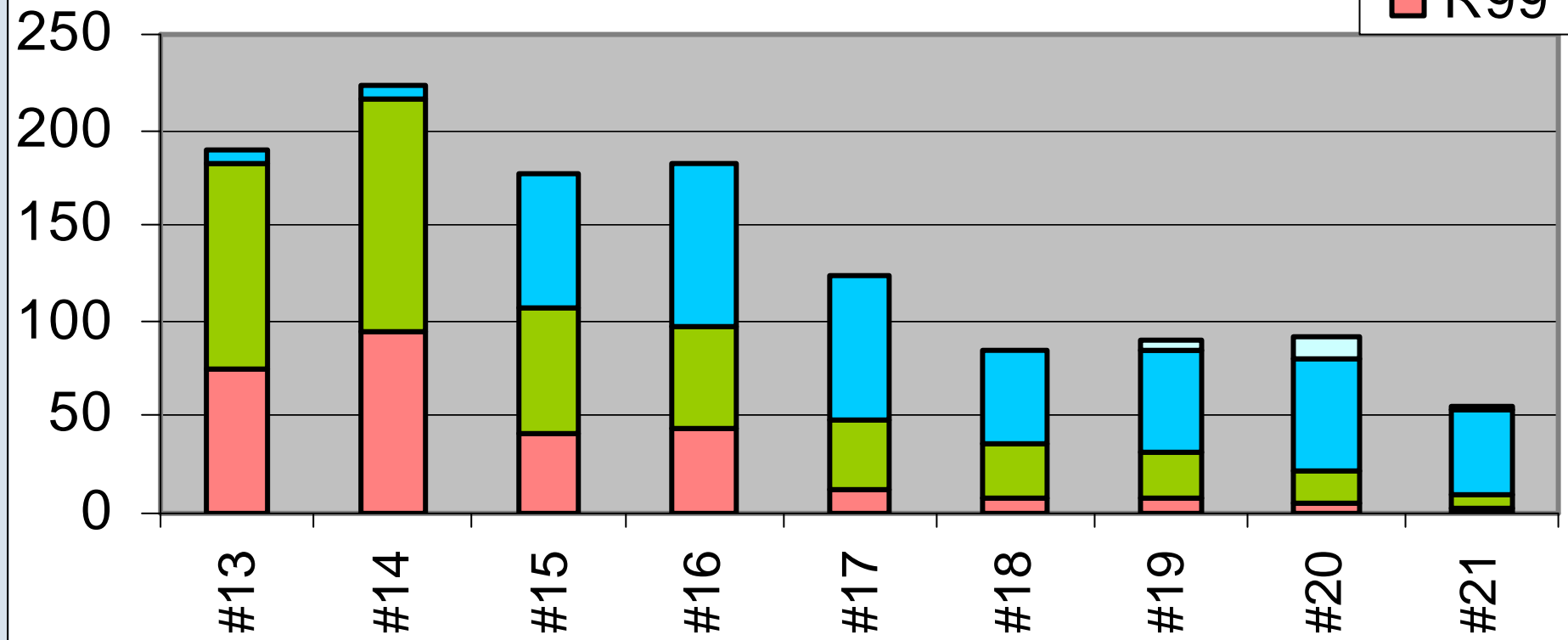
### Liaisons per RAN3 meeting

■ In  
■ Out



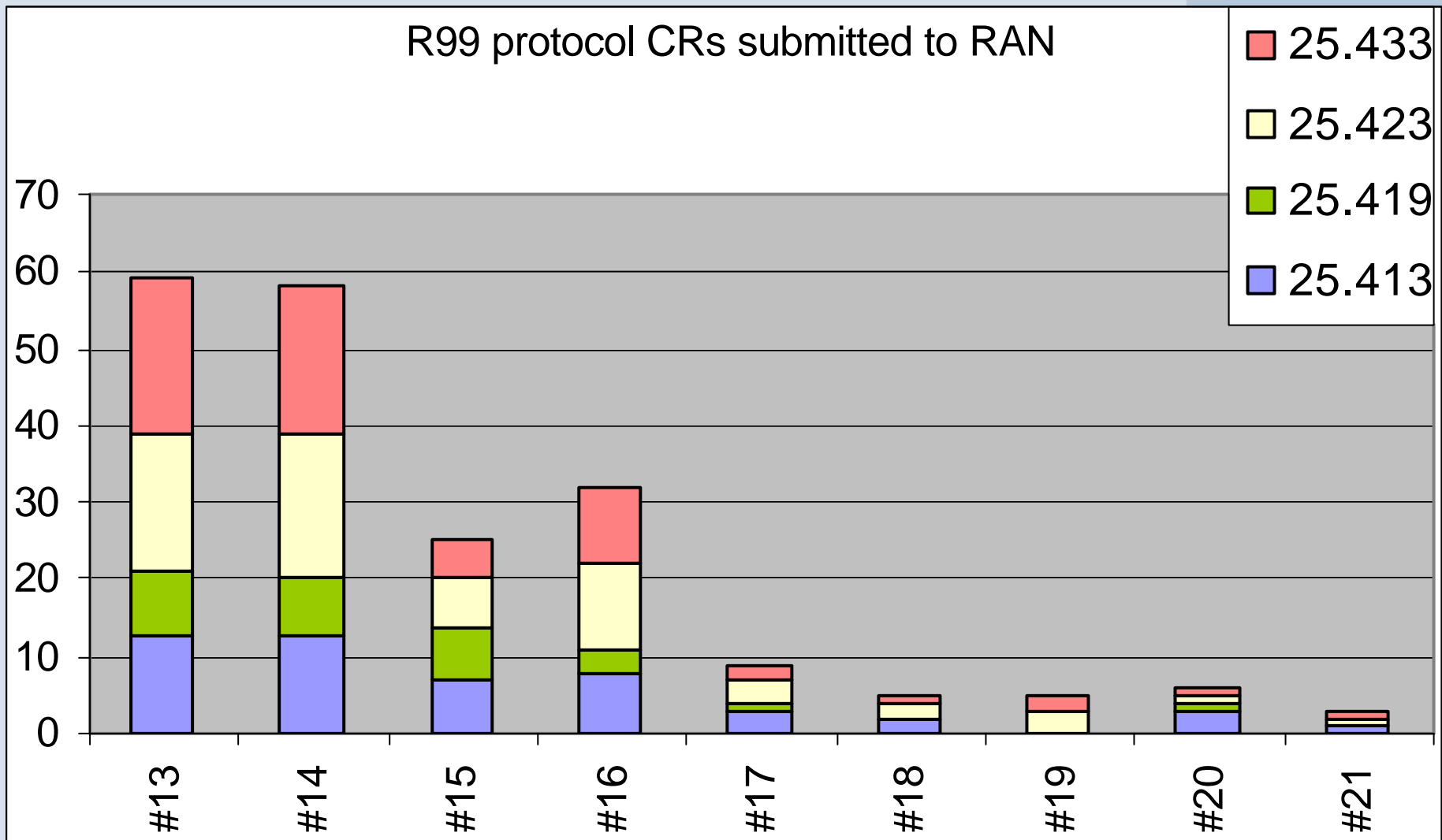


Total # of CRs submitted to RAN





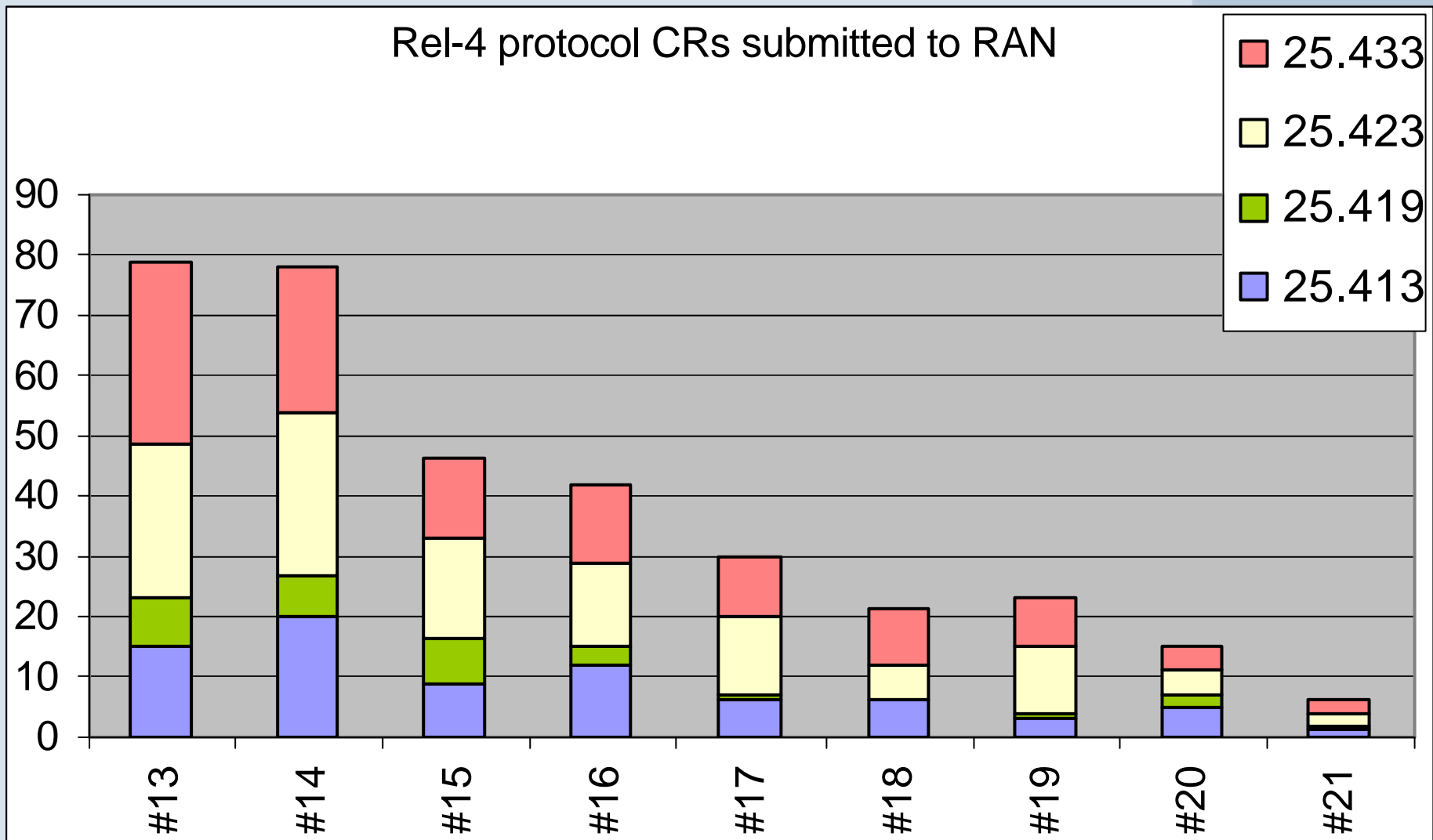
R99 protocol CRs submitted to RAN





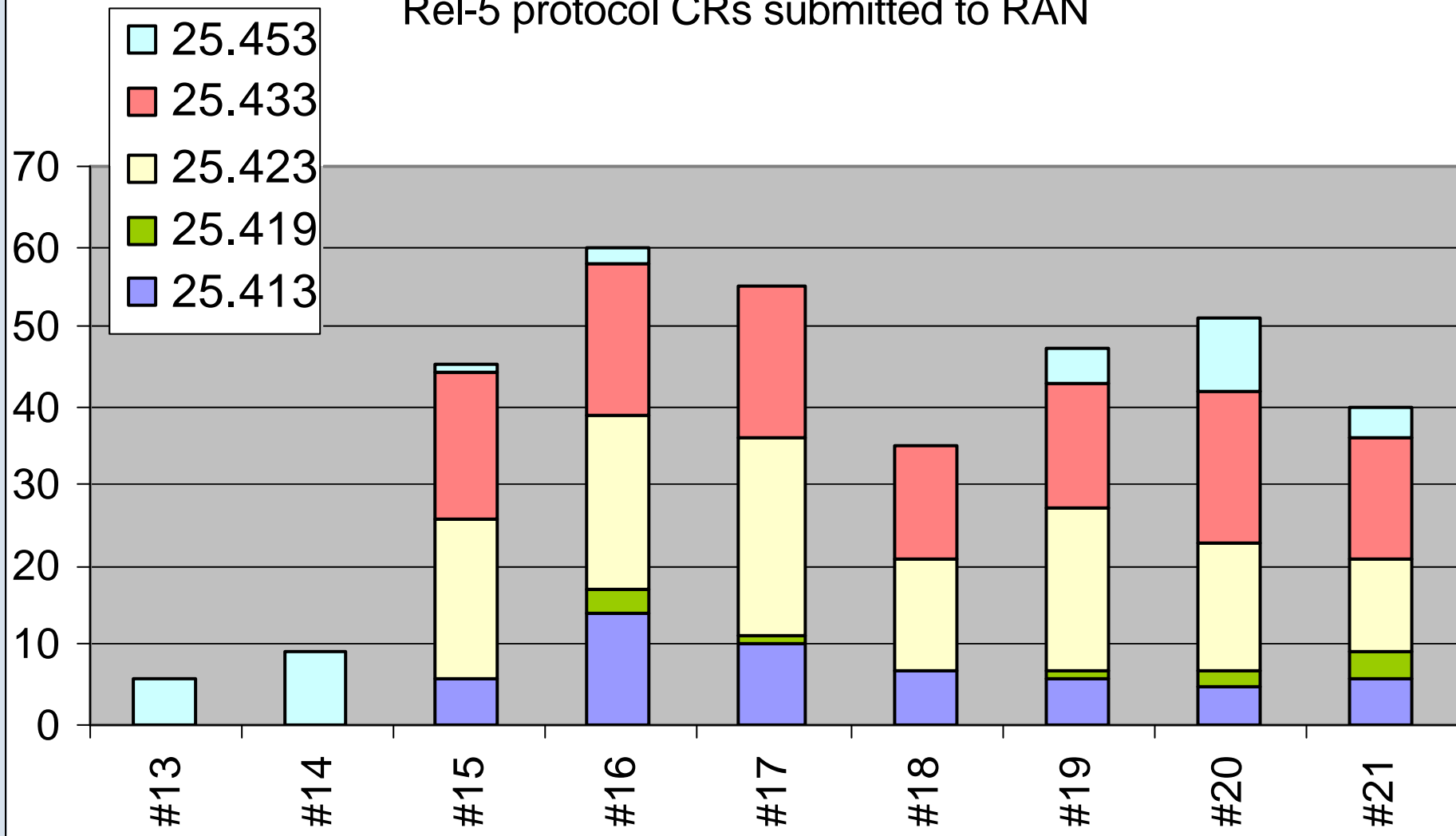


Rel-4 protocol CRs submitted to RAN





Rel-5 protocol CRs submitted to RAN





## R99 and Rel-4 activities



## Topics for Release 99 CRs

- ✍ **Essential correction of Iu Release Request**
  - to finalise the Iu Release topic of last meeting(s)
- ✍ **Correction for power settings in case of Tx Diversity**
  - finally agreed CRs are available (refined at RAN#20 and further offline discussions)
- ✍ **discussion SGSN routing function vs configurable VC selection on Iu-ps**
  - no agreement



## Topics for Rel4 CRs

- ✍ **several proposals for SABP corrections on finite broadcast**
  - 1 CR on correction of number of broadcast to be reported
  
- ✍ **RNSAP/NBAP CRs on „Successful outcome of reporting in case of ‘not available’ measurement results.“**
  - 2 CRs for the Information Exchange procedure for „on modification“ and „periodic“ reporting
  
- ✍ **CR proposal on „Cancelling queued RL Reconfig procedure“**
  - not agreed



## Release 5 specific activities



### HSDPA Iub/Iur protocol aspects

- ✍ **about 30 contributions submitted** (w/o revisions)
- ✍ **13 agreed + 3 technically correct CRs**
- ✍ **agreed issues**
  - ✍ Discard Timer for expired MAC-d PDUs
    - Range defined after SA4/SA2/RAN2 consultation
- ✍ **no more „big“ open issues for Rel-5**



### HSDPA Iub/Iur protocol aspects (cont'd)

#### other discussions

- some clarification and amendment CRs (e.g. reorder-buffer size)
- support of bitrates > 2Mbps on TNL:  
3 technically agreed CRs available for 25.424/426/434  
(no consensus)
- open: proposal to limit the number of bits scheduled per TTI, related to RAN2 discussions
- „deviation from Delay requirement“ measurement not agreed





## IP transport related issues

- ✍ **Symmetrical TNL QoS for IP transport option on Iub**
  - Working Assumption established (RNL solution)
- ✍ **IP – ATM interworking**
  - still discussions on the 3<sup>rd</sup> interworking alternative („PWE3“, „IP ALCAP“)



## other Rel-5 issues

(among others)

- ✍ **LS traffic with S2 on Out of Service issues (double paging)**
- ✍ **Alignment of RANAP and RNSAP for Rel-5 CRRM solution**
- ✍ **2 CRs for Phase Referencing Rel-5**
  - CR844r1 25.423 / CR869r1 25.433 were finally approved  
(see RP-030452, containing also CR144r1 25.415)



## Release 6 specific activities



- ✍ **CRRM (Improvement of RRM across RNS and RNS/BSS)**
  - no contributions. WI Report in RP-030383
- ✍ **Network Assisted Cell Change (NACC) from UTRAN to GERAN – Network-Side aspects**
  - further input provided
  - WI Report in RP-030386
- ✍ **Iu enhancements for IMS support in the RAN**
  - proposed requirements discussed and partially captured in the TR
  - issue on SIP messages detected (LS to SA2)
  - WI Report in RP-030382
- ✍ **Remote Control of Electrical Tilting Antennas**
  - Requirements discussed and captured
  - WI Report in RP-030385



### **MIMO Iub/Iur Aspects**

- no contributions, WI Report in RP-030392

### **Subscriber and Equipment Trace support in RAN**

- requirements discussed and captured
- two high-level solutions for Management activation taking into account the Work Item Description have been identified.
- open issues:
  - propagation of Trace configuration via Iur
  - feasibility of solution 2 for management activation  
? LS to SA5
- WI Report in RP-030394

### **Evolution of the transport in the UTRAN (generic feature)**

- input not treated (proposal for optional use of ALCAP on Iub)



- ✍ **(R1 WI) Improvement of inter-frequency & inter system measurements**
  - discussion paper for code sharing during compressed mode
  - further discussions necessary
- ✍ **(R2 WI) Open SMLC-SRNC interface within the UTRAN to support UTRAN Rel'4 positioning methods**
  - the remaining open issue on pathloss was closed at RAN3#37
  - CR in RP-030454



### **(R1 WI) Beamforming Enhancements**

- drafting on signalling CRs (RNSAP CR already „agreed in principle“)
- frame protocol CRs under discussion
- decision that the RNC shall control which cell portions need to be reported (communicated to RAN1)



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

- ✍ 2 ½ sessions for MBMS at RAN3#37**
- ✍ ~45 contributions**
- ✍ all agreements of last meetings captured in TS 25.346**
- ✍ LS traffic with SA2 continued on various topics (e.g. DRNC registration, Session Start, Session duration)**
- ✍ Alignment between SA2's and RAN3's stage 2 work**
- ✍ Yet to be discussed issues**
  - Iur Linking
  - DRNC Registration
  - De-Registration procedures
  - Sessions Start (SA2's assumption disputed due to unnecessary paging load)





## FS on the Evolution of UTRAN Architecture

- ✍ 13 contributions submitted
- ✍ no time to discuss new items
- ✍ only TR update agreed
- ✍ SI report in RP-030401



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

- ✍ study successfully finalised
- ✍ TR 25.801 ready for approval
- ✍ SI report in RP-030402



✍ (R4 SI) Low Output Powers for general purpose FDD BSs

- RAN3 was informed about RAN4 progress (see R3-031224/25)

No contributions submitted at RAN3#37 for:

✍ (R4 SI) UTRA Wideband Distribution Subsystems (WDS)

✍ (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.

✍ (R1 SI) Uplink Enhancements for Dedicated Transport Channels.

✍ (R1 SI) Uplink Enhancements for UTRA TDD



## Summary

- ✍ Amount of R99 and Rel-4 CRs small.
- ✍ last bigger open issues for Rel-5 HSDPA closed, only minor changes expected for next meetings
- ✍ Good progress on Rel-6 WIs
- ✍ 1 Rel-6 SI finalised
- ✍ no time for UTRAN Evolutions SI (only one meeting in the last plenary period)
- ✍ to “open and close” issues within one meeting is challenging
- ✍ quite effective working-style

*thanks to all the contributing RAN3 delegates  
for their excellent work*



## Meetings 2003/2004

Meeting	Dates	Venue, host
WG3#35	<del>7 – 11 April 2003</del> 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	Frankfurt, Germany
WG3#38	6 – 10 October 2003	Sophia Antipolis, France, ETSI (With R2)
WG3#39	17 – 21 November 2003	San Diego, USA, (close to R2)
TSG RAN#22	09 - 12 December 2003	HI, USA, ARIB/TTC/NF3
WG3#40	12 - 16 January 2004	Tbd, (Europe) (With R2)
WG3#41	16 – 20 Februar 2004	Malaga (tbc), Spain, EF3
TSG RAN#23	09-12 March 2004	USA tbd
WG3#42	10 – 14 May 2004	USA, tbd (With R2)
TSG RAN#24	01-04 June 2004	Korea
WG3#43	16 – 20 August 2004	Tbd, (Europe) (With R2)
TSG RAN#25	07-10 September 2004	US
WG3#44	4 – 8 October 2004	Tbd
WG3#45	15 – 19 November 2004	Japan (NEC) (With R2)
TSG RAN#26	07-10 December 2004	Athens, Greece