



Status Report RAN WG3 to TSG-RAN #24

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RAN WG3 Chairman



Meetings since RAN#23

- **RAN WG3#41bis, 30 March – 1 April, Budapest, Hungary**
– for Rel-6 WIs only

- **RAN WG3#42, 10 – 14 May 2004, Montréal, Canada**



Executive summary

■ RAN3 agreed CRs:

- no R99 CRs
- no Rel-4 CRs
- 17 Rel-5 CRs (cat. F)
(12 CRs on HSDPA)
- 32 Rel-6 CRs (2 cat.F, 17 cat.A, 11 cat.B, 2 cat.A)

- Complete list of CRs in RP-040170

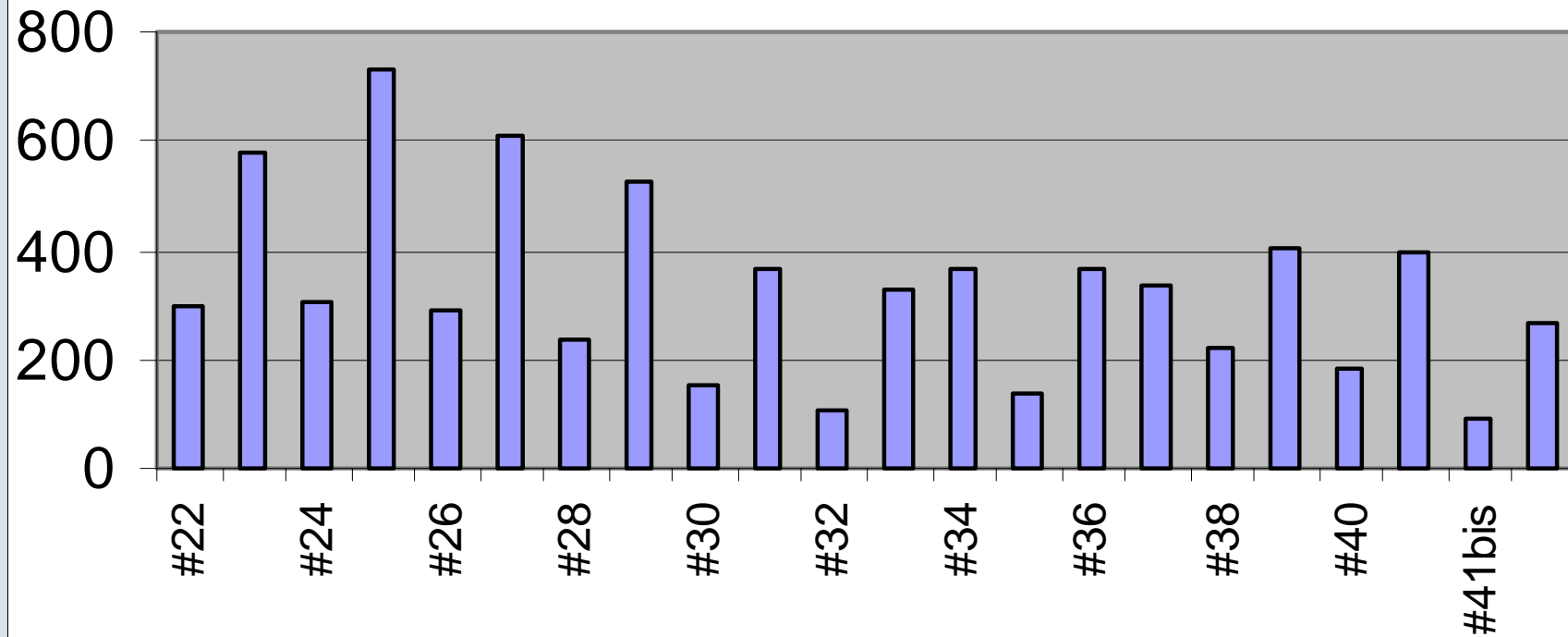


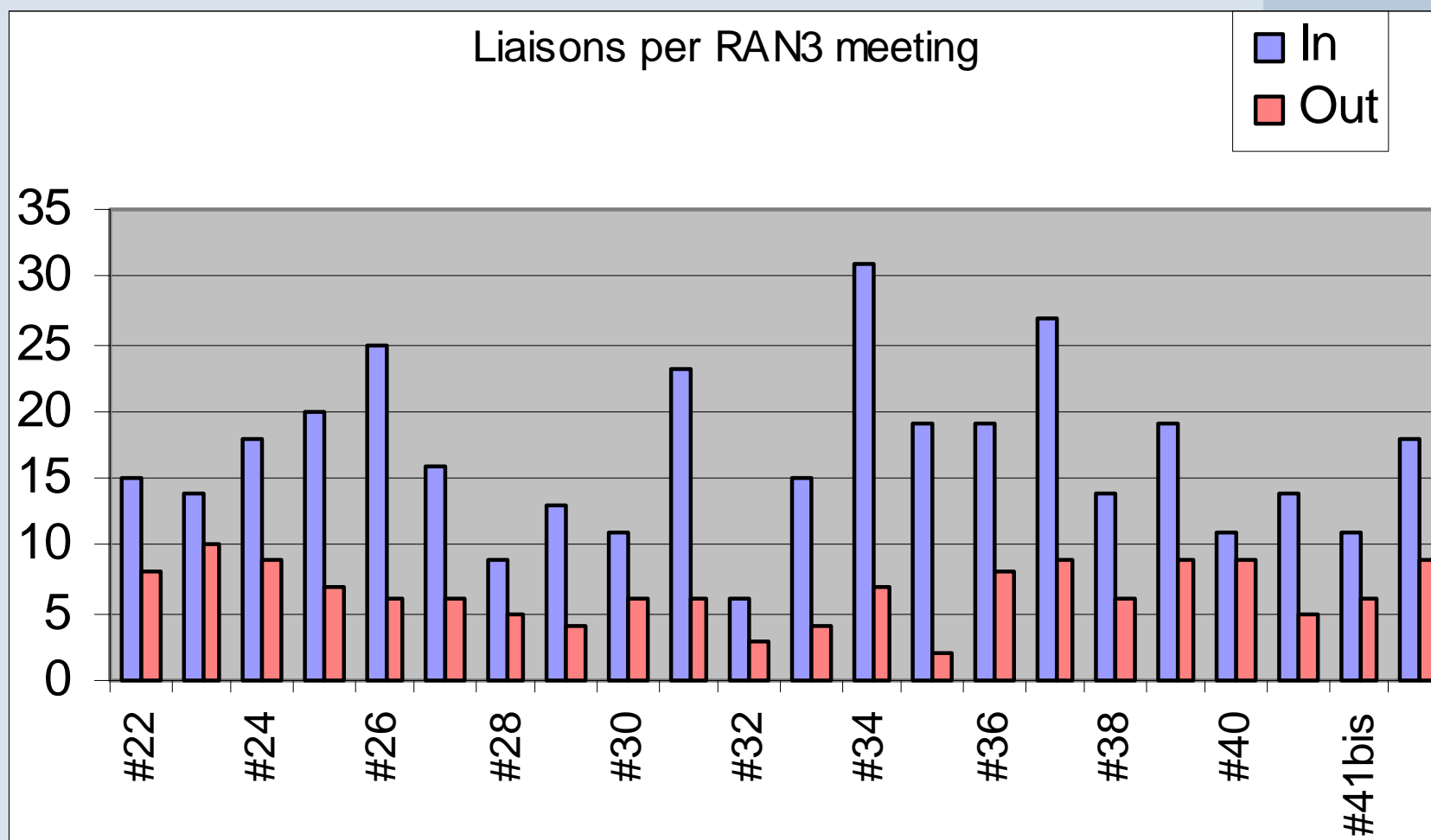
Executive summary

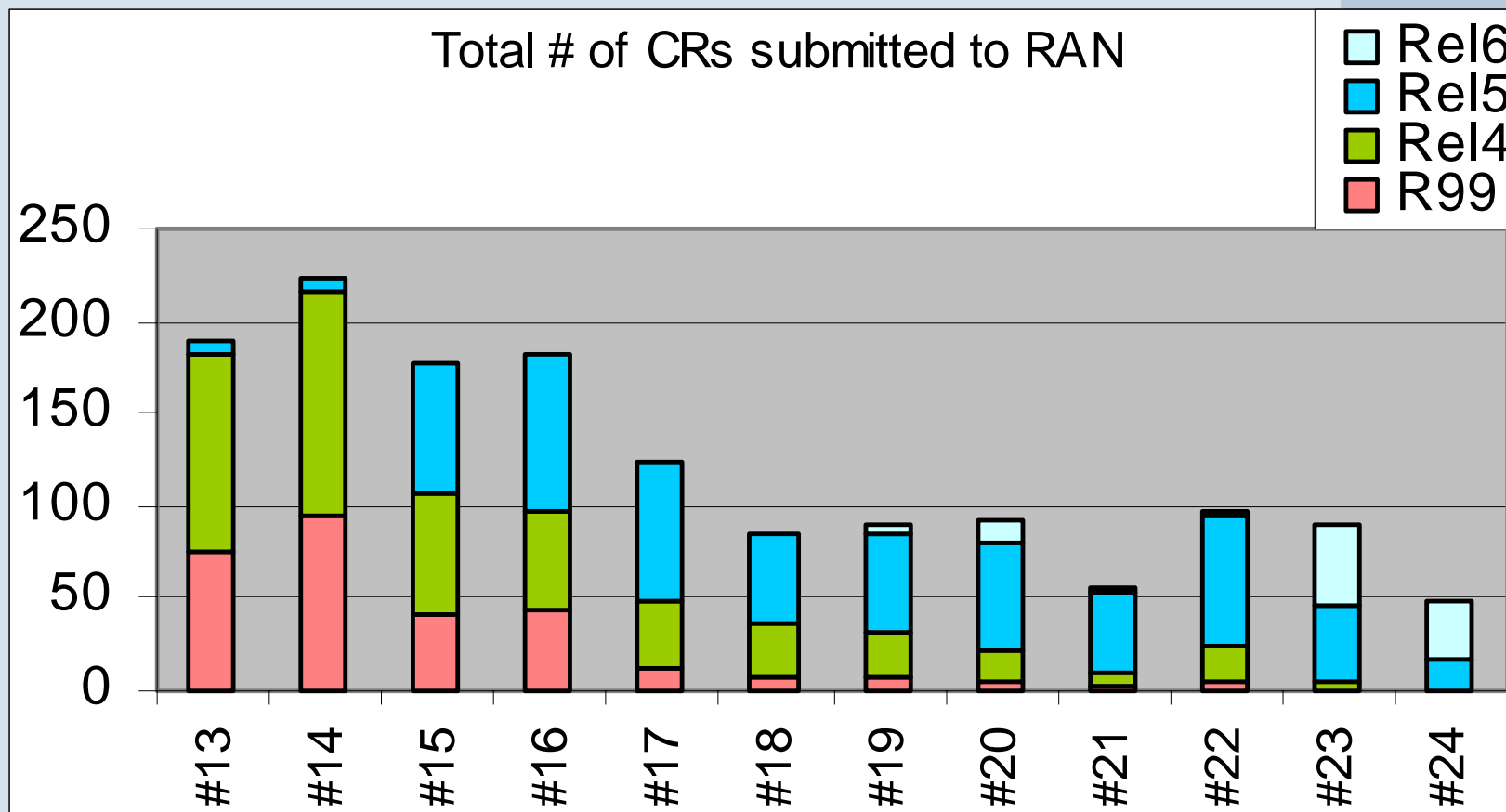
- 0 R99 CR
- 0 Rel-4 CRs
- Rel-5 correction ongoing (mainly HSDPA)
- WIs on Trace and NACC finalised
- basic agreements on RET WI
- MBMS: stage 3 work started (current status of discussions reflected in a „RAN WG3 internal“ TR)
- work on network sharing continued
- work on EUDCH WI not yet started (waiting for basic RAN1/2 agreements)
 - ⇒ especially at RAN3#42 the **progress on Rel-6 topics was excellent**

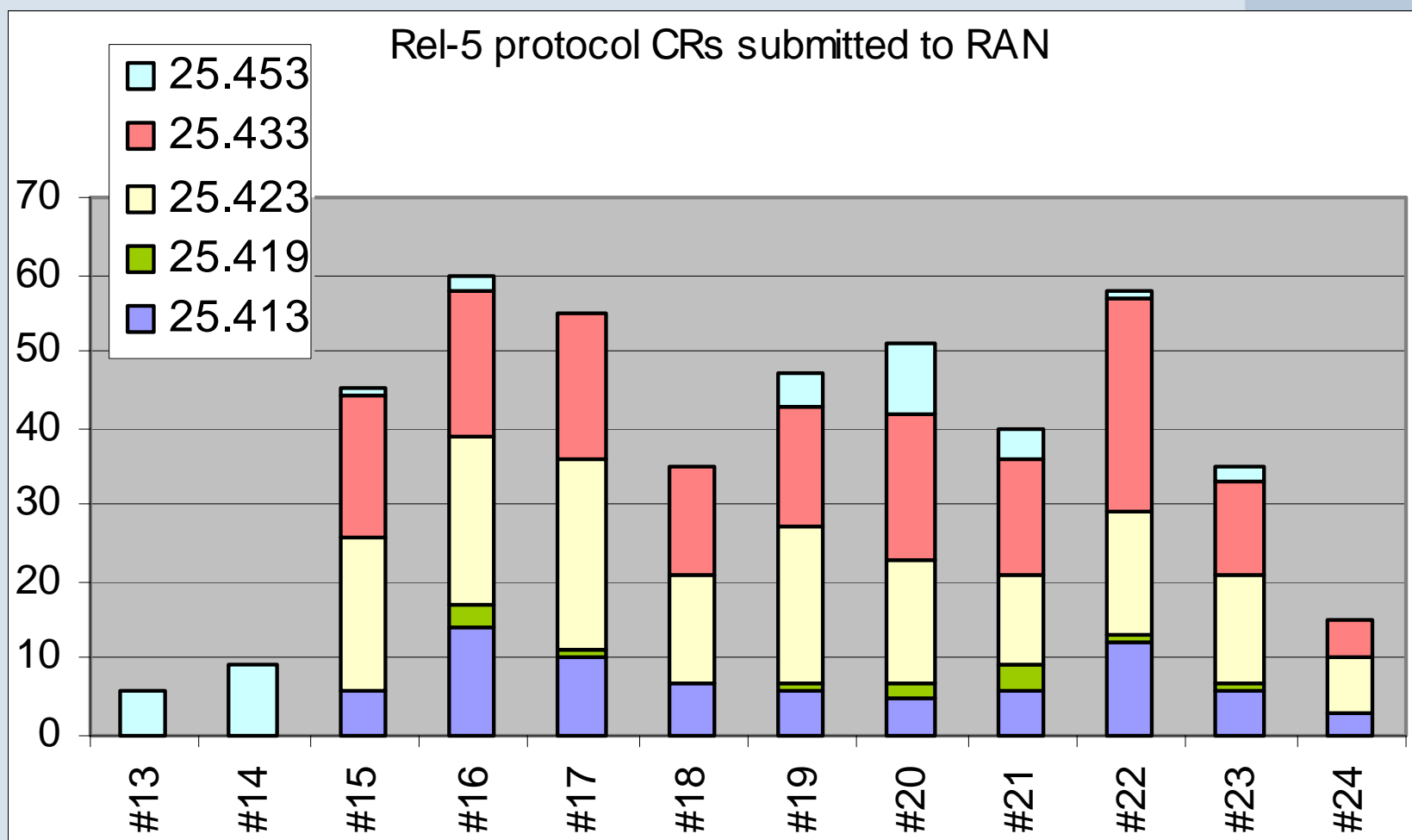


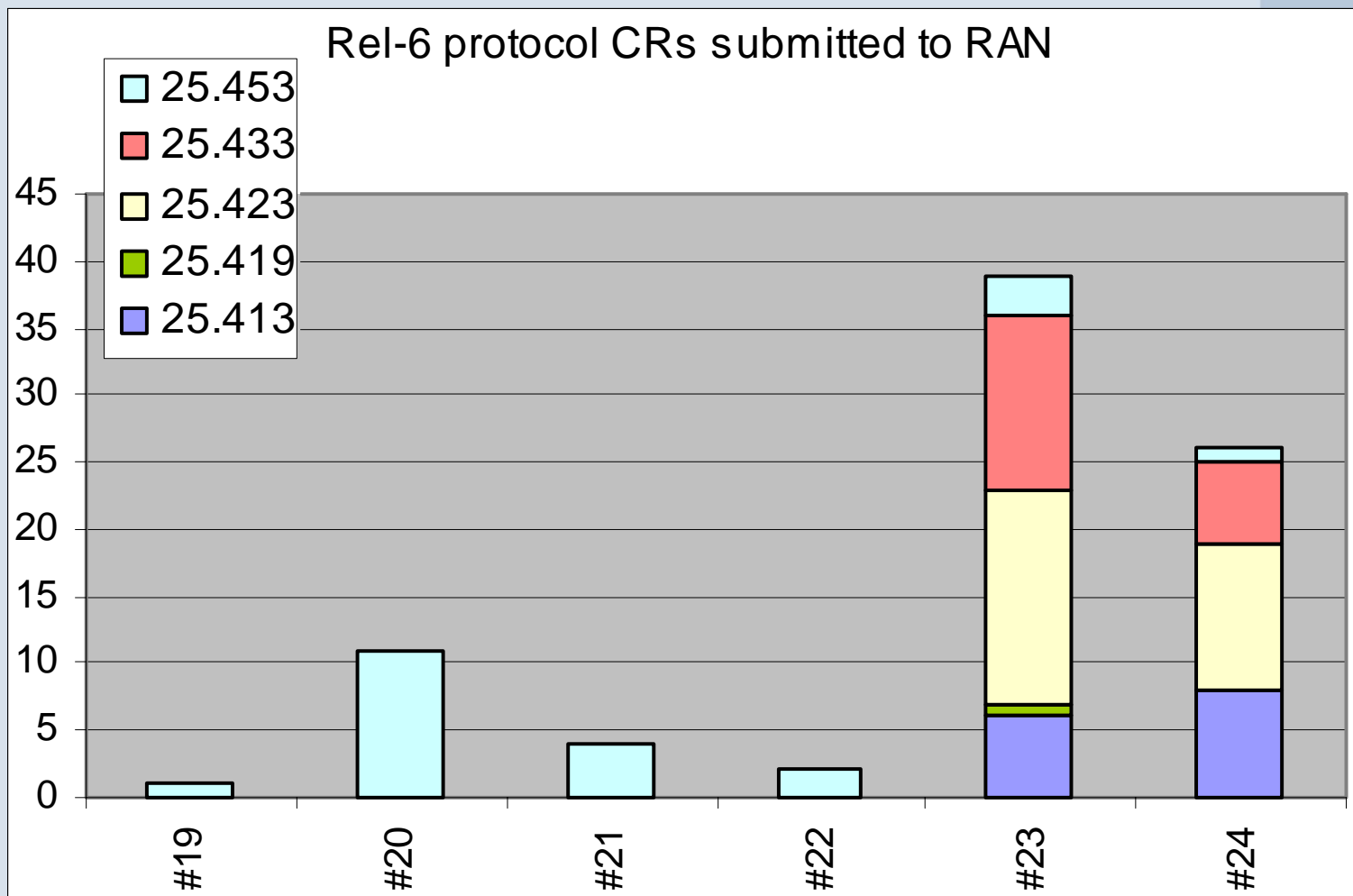
Total #Tdocs per RAN3 meeting





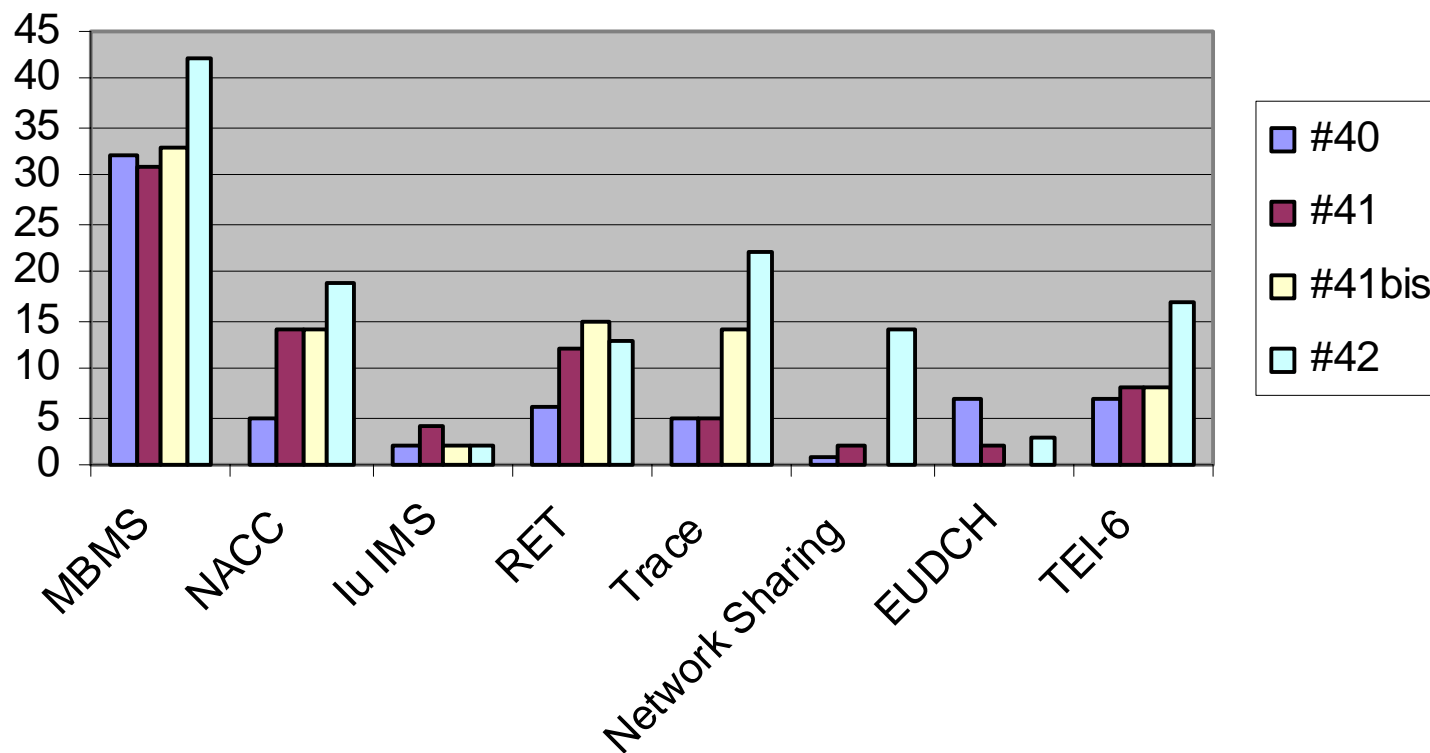








No of tdocs per Rel-6 WI/SI





Release 5 specific activities



RANAP Rel-5 issues

- Agreed CRs
 - IP transport related corrections @ RAB Assignment
 - Data Volume reporting @ RAB Modification
 - ⇒ work related LS exchange with SA2 and SA5 finalised
 - Handling of Shared Network Access Information @ Relocation
- Other topics
 - Directed Retry for 3G-3G scenarios



- **RAN3#42: 12 agreed (cat.F) CRs on HSDPA**
- **selected HSDPA topics**
 - Indicating HS-DSCH and HS-SCCH scrambling codes over Iur
 - Configuration Generation ID in Physical Shared Channel Reconfiguration procedure
 - Node B usage of MAC-hs re-ordering buffer size the Node B (for RLC UM only)
 - Correction on HS-DSCH Initial Capacity Allocation and association of Priority Queues with MAC-d flows
 - Correction of RL Setup procedure for HSDPA when reporting successful & unsuccessful Setup in one message
 - possible HSDPA enhancements for Rel-6 for frame protocols to be further discussed
 - discussion on handling loss of HFN synchronization for UM RLC radio bearers @ HS-DSCH to be continued with RAN2
- **other, non-HSDPA topics:**
 - Corrections to the Power Balancing function



Release 6 specific activities



■ Network Assisted Cell Change (NACC) from UTRAN to GERAN – Network-Side aspects

- WI finalised, mechanisms on Iu and Iur finally agreed
- complete set of CRs available in RP-040182
- WI Report in RP-040148

■ Iu enhancements for IMS support in the RAN

- no activity, no relevant input from SA2
- WI Report in RP-040144



■ Remote Control of Electrical Tilting Antennas

- without the necessity to go for a vote the following topics were agreed
 - modulation, bitrates, addressing, ...
- ⇒ so a more or less complete solution for lu-ant was agreed with only a few details left open for ffs
- finalisation in September '04 becomes realistic
- TR 25.802 provided for information in RP-040185
- WI Report in RP-040147

■ MIMO lub/lur Aspects

- no contributions



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

- consensus decisions were finally possible on remaining issues for management based trace activation
- complete set of CRs available in RP-040183
- WI Report in RP-040153
- one possible open issue during inter-MSC Relocation communicated to CN4

■ **FDD Enhanced Uplink: UTRAN Iub/Iur Protocol Aspects**

- no contributions treated
- waiting for basic RAN1/RAN2 concepts
- WI Report in RP-040157



- **(R1 WI) Improvement of inter-frequency & inter system measurements**
 - LS exchange with RAN1
 - signalling impacts on lub discussed
- **(R2 WI) Enhancement of the support of network sharing in the UTRAN**
 - several approaches for the „MOCN“ scenario as communicated by SA2 and contributed by companies analysed and discussed.
 - RAN3 recommended the „RAN centric“ approach for redirecting mechanism
 - Indication of CN-id in „GWCN“ scenario discussed
- **(R1 WI) UE Positioning Enhancements – other methods**
 - soft IPDL proposal discussed and feedback provided



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

- stage 3 well prepared to be in agreeable condition for CR approval at RAN#25
- level of detail on Iu and Iur as high as expected
- no remaining blocking issue
- LS exchange with SA2, SA4 and RAN2 on several issues



- **(R3 SI) Evolution of the UTRAN architecture**
 - on hold

- **(R4 SI) UTRA Wideband Distribution Subsystems (WDS)**
 - no RAN3 activity

- **(R1 SI) Uplink Enhancements for UTRA TDD**
 - No contributions



■ agreed CRs (selected)

- "Introduction of an indication of achieved accuracy in Location Report procedure over lu interface"
 - ⇒ related to a CR approved for TS 23.271 at SA#23.
- CRs related to enhancements of Common and Dedicated Measurement Procedures on lur/lub
- one PCAP correction on Initial UE Position



■ (SA2 WI) Circuit Switched Video and Voice Service Improvements

- SA2 is seeking guidance (see LS in R3-040696) whether UTRAN provides indications so that the CN is able to trigger a fallback from voice+video to voice-only.
- It was clarified that no indication is available so far to indicate "degradation of RL quality" to the CN in order to trigger a service switch in time.



■ **(R1 WI) Beamforming Enhancements**

- Proposal for indicating a Maximum Transmission Power per Cell Portion to Node B needs further discussion.
- Proposal to introduce mechanisms to allocate HSDPA Resource per Cell Portion or to perform HSDPA specific measurements per Cell Portion needs to be discussed in RAN1 first.

Meetings 2004

RAN WG3 #41bis	30 March - 01 April 2004	Budapest, Hungary	European Friends of 3GPP
RAN WG3 #42	10 -14 May 2004	Montreal (tbc), Canada (with RAN WG1&2)	North American Friends of 3GPP
TSG RAN#24	02 - 04 June 2004	Korea	
RAN WG3 #43	16 - 20 August 2004	Prague (tbc), Czech Republic (with all WGs)	European Friends of 3GPP
TSG RAN#25	08 - 10 September 2004	Palm Springs, USA	North American Friends of 3GPP
RAN WG3 #44	04 - 08 October 2004	Sophia Antipolis, France (co-located with RAN WG2)	ETSI
RAN WG3 #45	15 - 19 November 2004	Shin-Yokohama (tbc), Japan (all WGs)	NEC
TSG RAN#26	08 - 10 December 2004	Athens, Greece	European Friends of 3GPP



Summary

- Rel-6 work with excellent progress
 - ⇒ thanx to all involved parties for being well-disposed for compromises

- Individual Members should consider increasing number of experts in RAN WG3 in order to keep protocol specification quality

Thanks to all RAN3 delegates for their excellent work