

Report from WG3 chairman to TSG-RAN #18

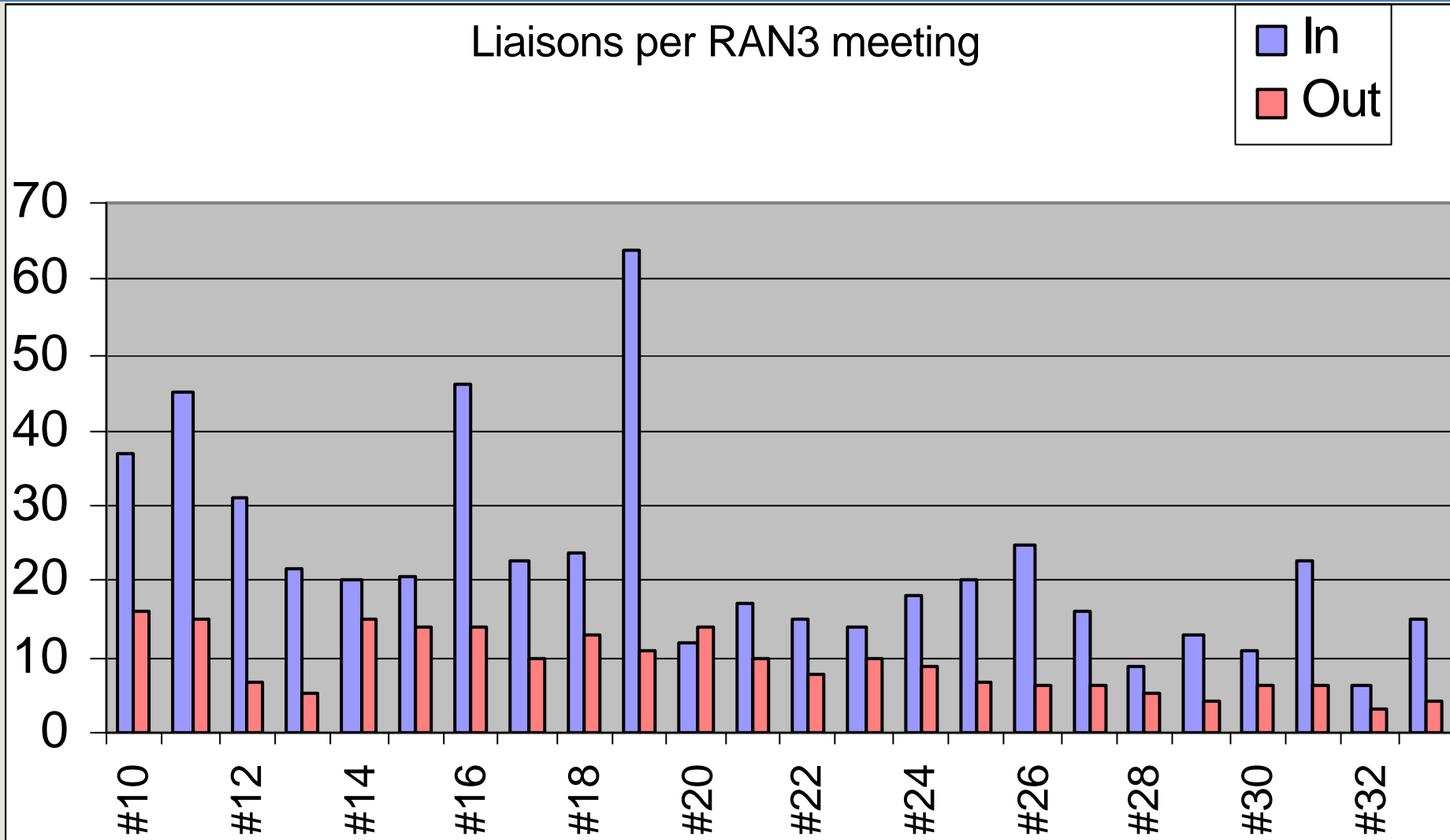
Martin Israelsson
RAN WG3 Chairman

Meetings since previous RAN Plenary

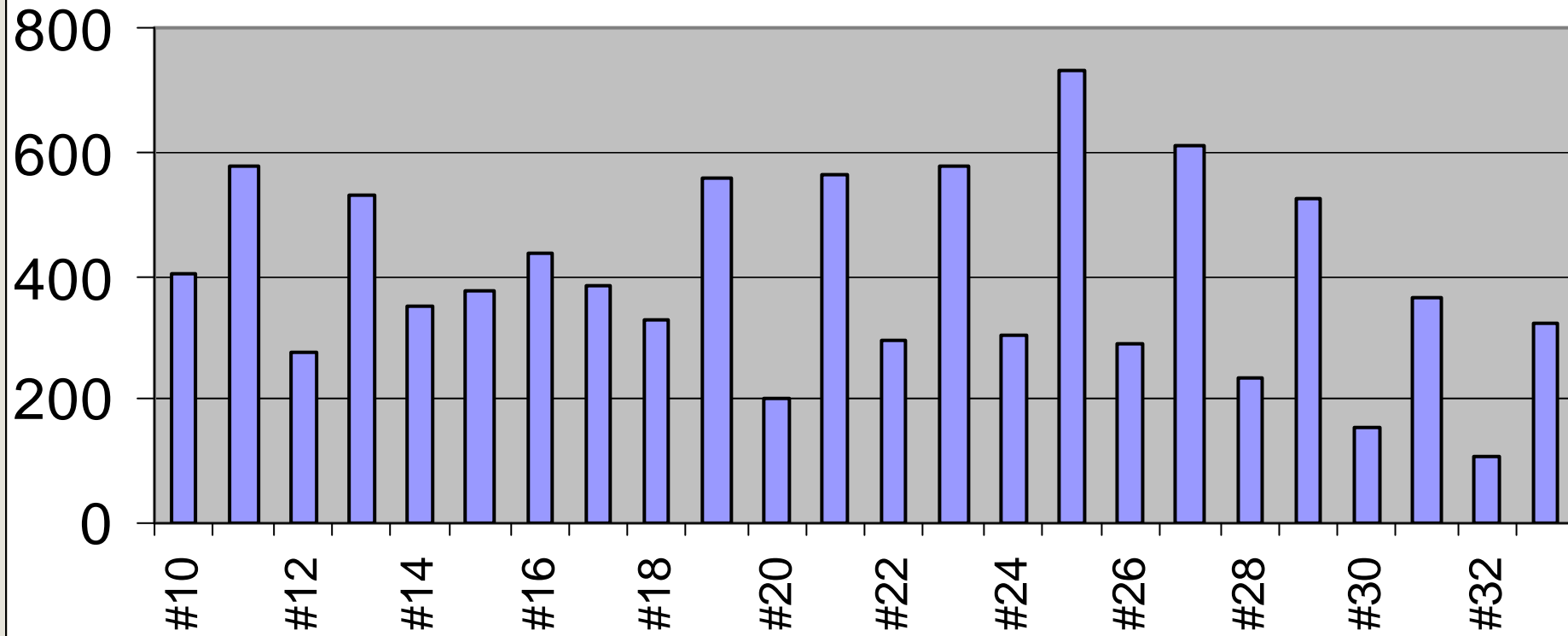
- RAN WG3#32, 23 - 27 September, Xi'an
 - Joint ½ day session with RAN2 on HSDPA
 - Joint ½ day session with RAN2 on MBMS
- RAN WG3#33, 11 - 15 November, Sophia Antipolis
 - MBMS session planned with RAN2 but neither RAN3 nor RAN2 had time for any Rel-6 topics.

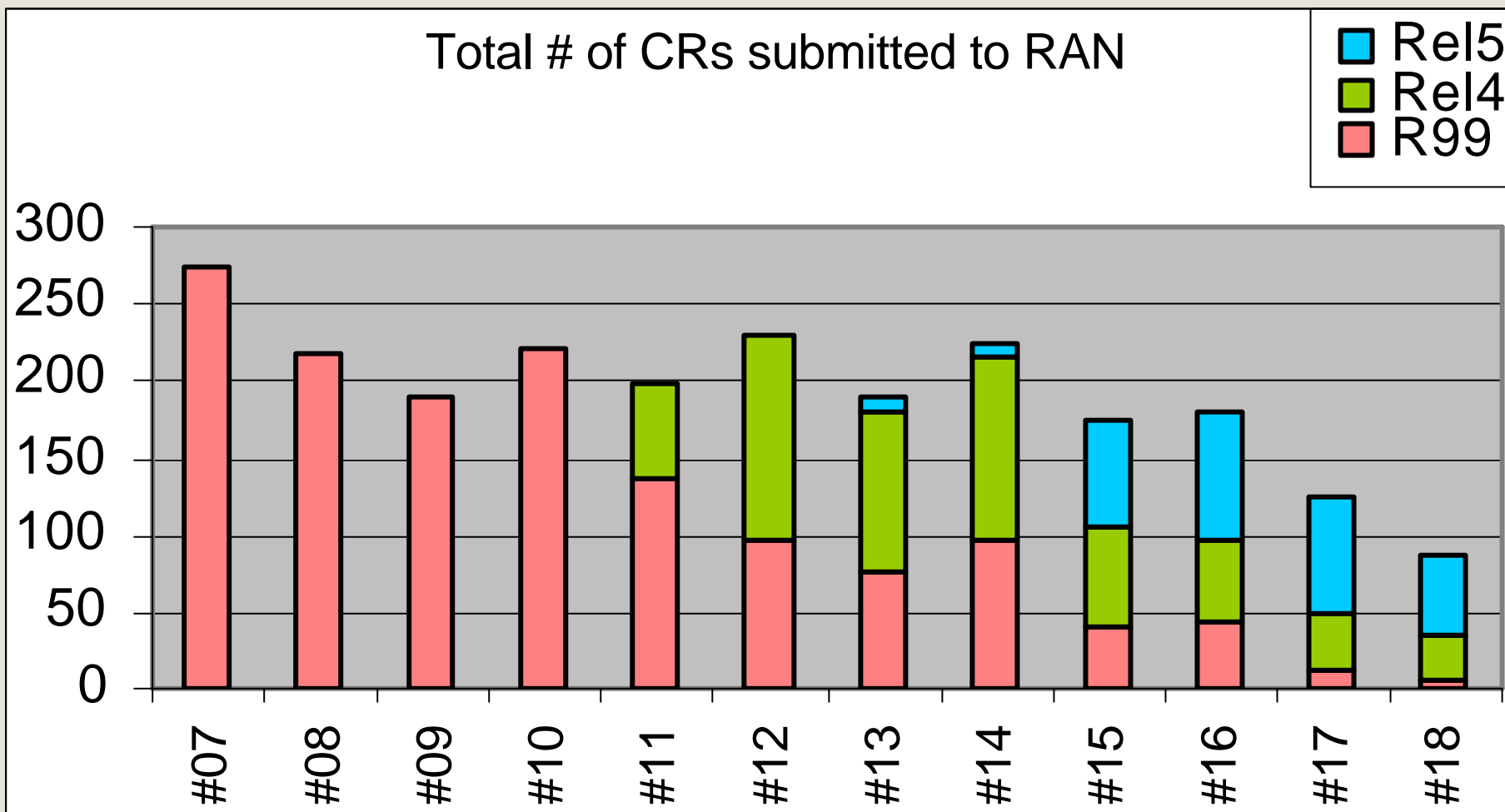
Executive summary

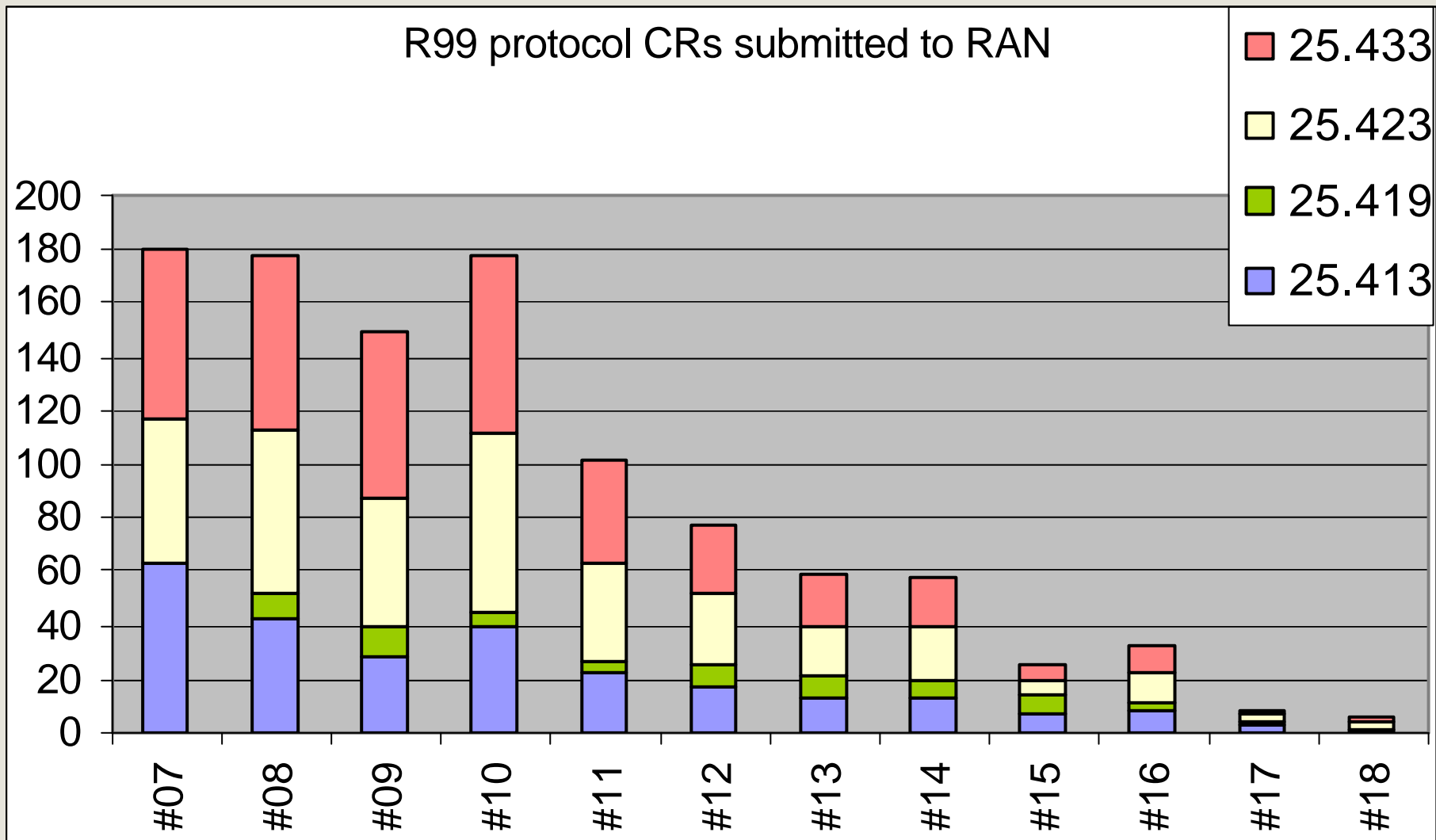
- The amount of R99 & Rel4 CRs continue to decrease.
 - 7 R99 + Rel-4 and Rel-5 mirror CRs
 - 22 Rel-4 + Rel-5 mirror CRs (majority TDD)
 - 25 Rel-5 only CRs (majority HSDPA)
 - Complete list of CRs (R99, Rel-4 & Rel-5) in RP-020740
- R99 +mirror CRs occupies about 20% of meeting time.
- RANAP Rel-4 review performed during RAN3#32, resulted in a few CRs. One particular ASN.1 issue was found in the Rel-4 LCS additions.
- Discussions on early UE handling CRs.
- No time to handle Rel-6 during RAN3#33.

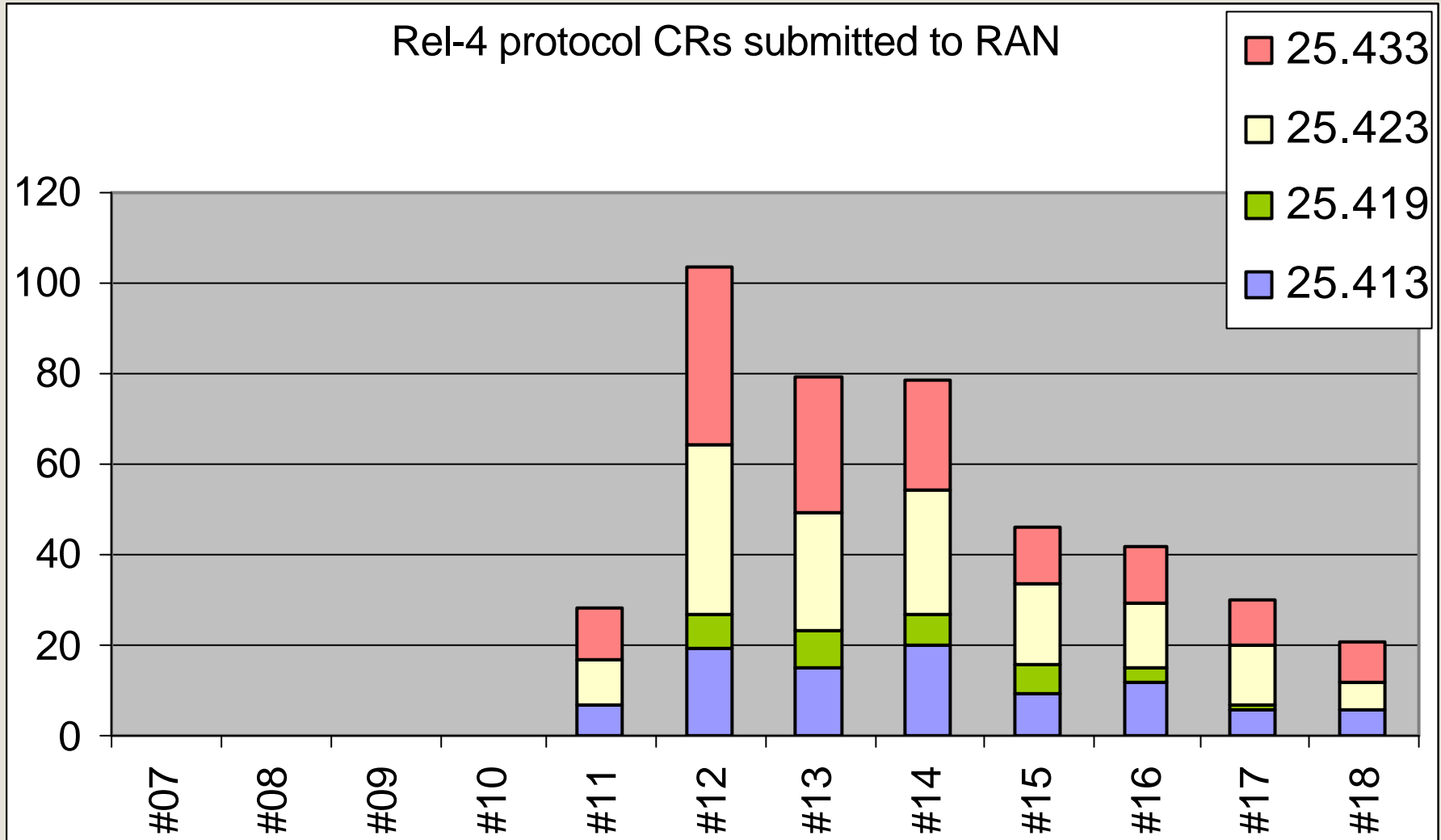


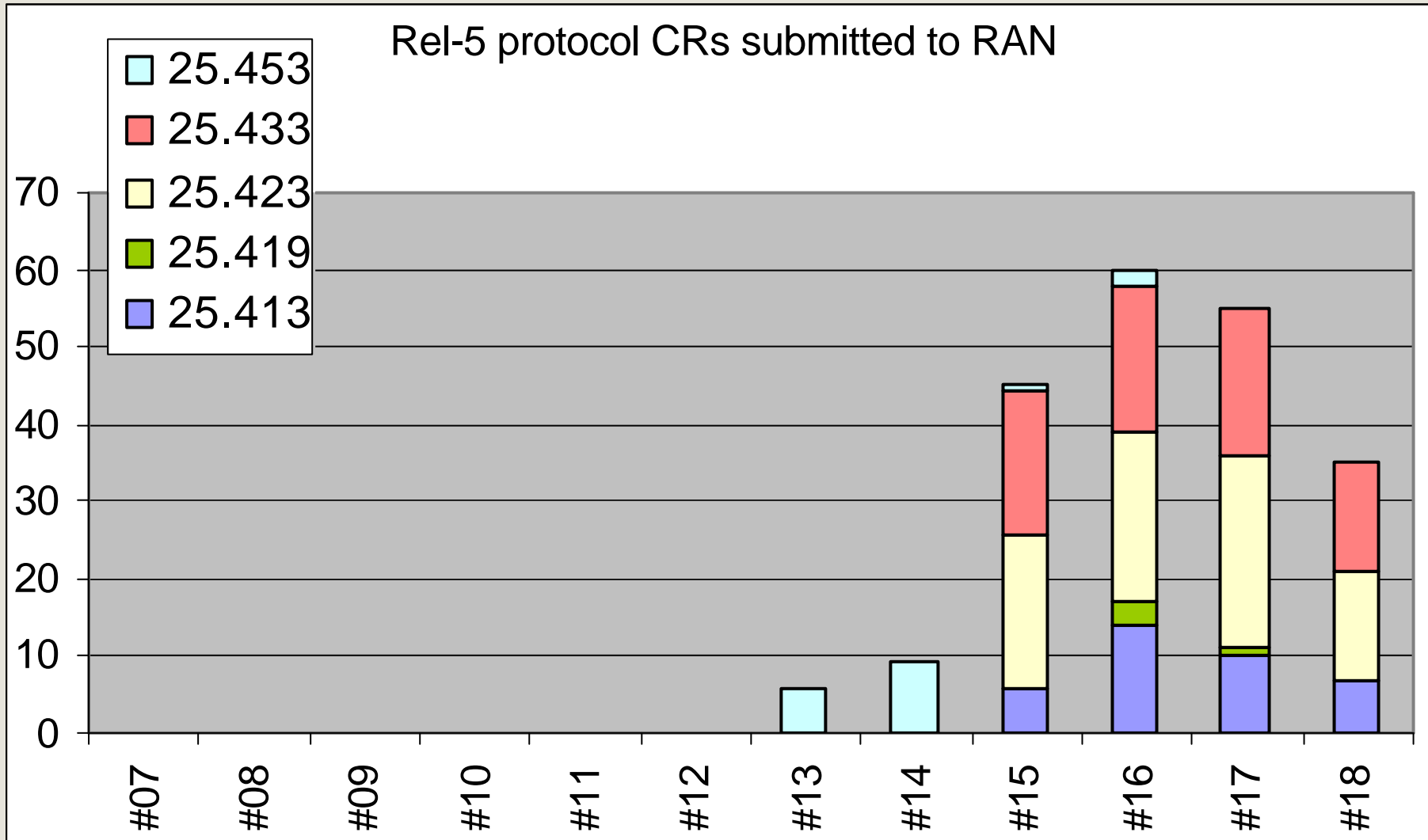
Total #Tdocs per RAN3 meeting












Actions on WG3 from TSG RAN #17

To consider the impact in WG3 specifications of the removal of configuration D of the AMR-WB speech codec approved in SA WG4 (sec. 6.2 doc. RP-020463).

 Outcome: the proposal in the LS has no impact on the RAN3 specifications.

To report back to RAN any difficulty met when studying the isolated impact analysis and backward compatibility of Rel-4 CRs. (sec. 7, doc RP-020642).

 No particular problem except that RAN3 has agreed to allow some Rel-4 isolated impact TDD CRs with non backwards compatible ASN.1 changes within Rel-4. Will however enforce backwards compatible ASN.1 changes also for TDD after RAN#18.

R99, Rel-4 and Rel-5 activities

Topics for the R99 CRs

- Missing RAB mapping added for Relocation with UE not involved, (25.413).
- Encoding details for GSM IEs clarified for inter-rat handover, (25.413).
- Specification of the protocol stack to be used in case VC/IP-addresses association via O&M, (25.414).
- DL DPDCH transmission correction to avoid unnecessary stopping of the DL DPDCH when DL user plane already is synchronised, (25.423, 25.427, 25.433).
- Addition of DSCH-RNTI in RADIO LINK SETUP FAILURE in order to support all mobility scenarios, (25.423).

RANAP review Rel-4 ASN.1 issue

- Interworking issue found between R99 and Rel4 as a result of Rel-4 CR introducing support of extended positioning in RANAP (approved in Sep 2001).
 - Solved with RAN3 approved “isolated impact” Rel-4 (Rel-5) RANAP CR525r2 (526r2).
 - Additional discussions after the RAN3 meeting on the reflector resulted in a revised CR.
 - Company contribution RP-020860 contains proposed revisions of the RAN3 approved CR525r2 (526r2) in RP-020751.

Early UE discussions

One initial discussion document at RAN3#32, followed by some email discussions on the reflector.

Several draft CR proposals at RAN3#33, relating to the different solutions outlined in the SA2 TR on Transfer of UE Specific Behaviour Information.

The following Iu related solutions has been discussed and technically correct CRs are available:

- UESBI transfer via CN to RAN ([Architecture 1](#) and [2 according to SA2 TR](#))
 - **Note: dependant on CN CRs (29.060, 09.08 & 49.008).**
 - RP-020745 (R99 only), Transfer of Faults Bitmap over Iu for the handling of early mobiles
Note: open issue "seize constraint" for bitmap.
 - RP-020746 (R99 only), Transfer of IMEISV over Iu for the Handling of Early Mobiles

- UESBI transfer from UE to RAN ([Architecture 3 according to SA2 TR](#))
 - Alternative transport of UESBI using RANAP containers between RAN nodes. **Note: corresponding RRC CR has not been agreed in RAN2, also dependant on 08.08 changes.**
 - RP-020747 (R99 only), Inclusion of IMEI-SV based “UE Specific Behaviour Information” in “Source RNC to Target RNC Transparent Container” for handling of early mobiles.
Note: reason for change would be same as CR below.
 - RP-020749 (R99 only), Inclusion of RRC bitmap-based UE Specific Behaviour Information in RANAP containers as an alternative of RRC transparent container.
Note: if selected then final crosscheck against “bitmap“ in RRC CR needed before implementation.
 - Alternative transport of UESBI using RANAP containers between RNC and GSM-BSS. **Note: corresponding RRC CR has not been agreed in RAN2, also dependant on 08.08 changes. Could be applicable for both the “bitmap” and IMEI-SV solution.**
 - RP-020748 (R99 only), Inclusion of UE Specific Behaviour Information in RANAP containers for usage by GSM-BSS.

Release 5 specific activities

HSDPA Iub/Iur protocol aspects

- The request from RAN1 to provide signalling to transfer “DTX_mode” to Node B was not seen necessary by RAN2 and RAN3 did thus not agree any RNSAP and NBAP CRs for this. (No LS reply sent to RAN1).
- More HSDPA related CRs are expected for the next meeting (s?), some known issues are dependant on agreements in other RAN groups.
- Company contribution RP-020855 “MAC-hs Window Size” contains revisions of RAN3 approved CR757r1 (25.423) & CR764r1 (25.433) in RP-020769. The revisions are based on RAN2 CRs approved by email.

Support for IPv6 (IP UTRAN)

- SA2 has made updates to 23.060 that does not contradict the current wording used in the RAN3 specifications. Case closed.

Discussions on QoS requirement for “IMS signalling RABs”

- During past meetings several contributions has proposed additional RAB parameters that would enable UTRAN to apply specific handling of “IMS signalling RABs”.
- At RAN3#32 the discussions focused on QoS requirements for signalling RABs, an email discussion was also initiated. No time was available for this topic during RAN3#33.

Release 6 specific activities

Improvement of RRM across RNS and RNS/BSS

- Work progressed during RAN3#32 but no time available during RAN3#33.
- One solution described but more solutions are expected.
- Status report RP-020701

Evolution of UTRAN Architecture

- Initial skeleton TR25.897 agreed during RAN3#32.
- Several contributions but no time available during RAN3#33.
- Status report RP-020711

Progressed non RAN3 Rel-6 WIs/SIs

(R1 WI) Improvement of inter-frequency & inter system measurements, RAN3 concerns provided to R1

(R2 WI) Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN, Joint session with R2 on architecture aspects at RAN3#32, no time at RAN3#33.

Not progressed non RAN3 WIs/SIs (1)

- ✍ (R2 WI) Improved usage of downlink resources in FDD for CCTrCHs of dedicated type [R3.007]. **No contributions.**
- ✍ (R2 WI) Open SMLC-SRNC interface within the UTRAN to support UTRAN Rel'4 positioning methods [R3.001], **Contribution submitted for RAN3#33, but no time.**
- ✍ (R1 WI) Beamforming Enhancements, **No contributions so far, but expected for next meeting.**
- ✍ (R1 SI) Fast Cell Selection (FCS) for HS-DSCH, **No contributions.**

Not progressed non RAN3 WIs/SIs (2)

- ✍ (R4 SI) UTRA Wideband Distribution Subsystems (WDS),
No contributions.
- ✍ (R4 SI) viable deployment of UTRA in additional and diverse spectrum arrangements. No contributions.
- ✍ (R1 SI) Improvement of inter-frequency & inter system measurements for 1.28 Mcps TDD [R3.011]. No contributions.
- ✍ (R2 SI) Enhancements to OTDOA Positioning using advanced blanking methods. No contributions.
- ✍ (R1 SI) Uplink Enhancements for Dedicated Transport Channels.
No contributions.

Summary

- Less R99 and Rel-4 CRs.
- Several corrections made to HSDPA but additional CRs are foreseen.
- Long discussions on Early UE handling CRs and handling of signaling RABs.
- Some activity on Rel-6.
- Meetings prior to RAN are still quite busy.

Meetings 2002-2003

Meeting	Dates	Venue, host
WG3#32	23 - 27 September 2002	Xian, China, CATT (with R2)
WG3#33	11 - 15 November 2002	Sophia Antipolis, France, ETSI (with R2)
TSG RAN#18	03 - 06 December 2002	New Orleans, LA, USA, NA Friends of 3GPP
WG3#34	17 - 21 February 2003	Sophia Antipolis, France, ETSI (with R2)
TSG RAN#19	11 - 14 March 2003	Birmingham, UK, UK Friends of 3GPP
WG3#35	7 - 11 April 2003	Seoul, Korea, Samsung, (With R2)
WG3#36	19 - 23 May 2003	Paris, France, EF3 (All RAN groups)
TSG RAN#20	3 - 6 June 2003	tbd, Finland, Nokia
WG3#37	25 - 29 August 2003	<i>Tbd, Europe, EF3 (With R2)</i>
TSG RAN#21	16 - 19 September 2003	Tbd, Germany, Tbd
WG3#38	6 - 10 October 2003	Sophia Antipolis, France, ETSI (With R2)
WG3#39	17 - 21 November 2003	<i>San Diego (tbc), USA (tbc), (collocated with R2)</i>
TSG RAN#22	09 - 12 December 2003	tbd, HI, USA, ARIB/TTC/NA Friends of 3GPP