



Status report of RAN WG2 to RAN #13

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RP-010535

Main activities since last RAN Plenary

- **Release 99 corrections**

- still taking more than 50% of meeting time, and most of delegates bandwidth/expertise
- Still many corrections on aspects which were not described, unclear, or incorrect.
 - BUT few actual radio interface modifications, and level of importance of CRs is decreasing
- All CRs have an impact analysis
 - all have an isolated impact

- **Some Release 4 corrections**

- **HSDPA**

- progressed in RAN1, RAN2 and RAN3
- Good progress. Work on schedule

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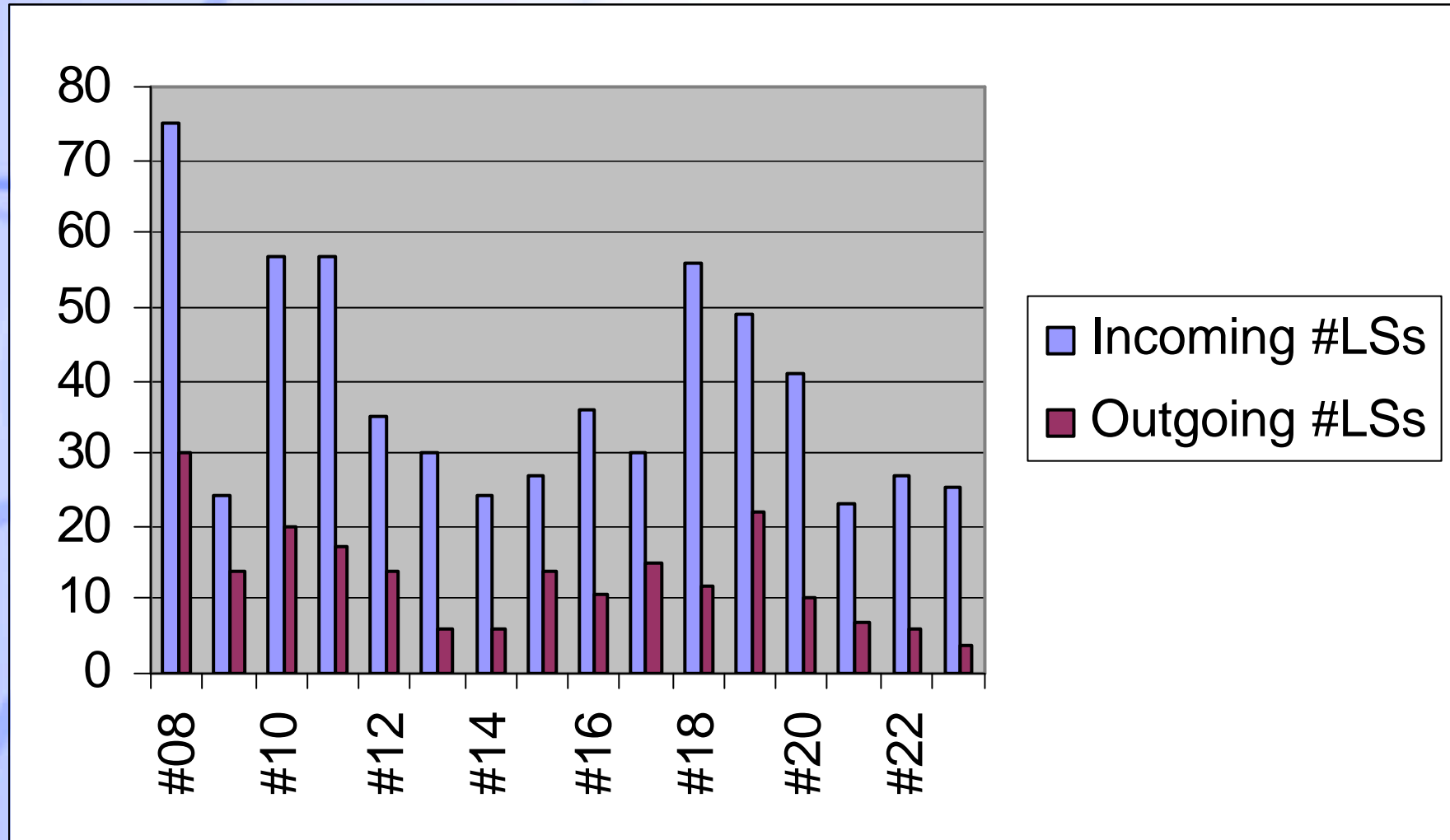
RAN WG2 statistics

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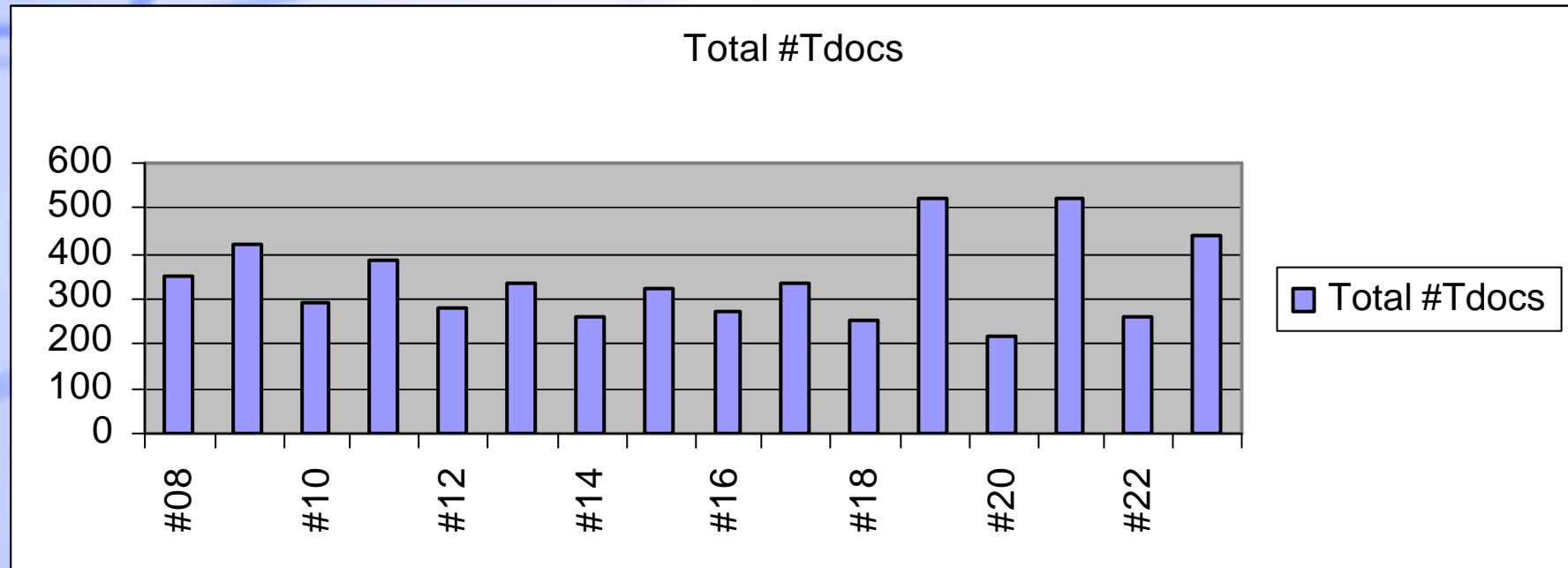
Meetings held since last RAN Plenary

- RAN WG2#22 in July
- RAN WG2 #23 in August
- One joint meeting with RAN4, mainly on UP
- One joint meeting with RAN4 and T1-RF
- One joint meeting with RAN3 on HSDPA

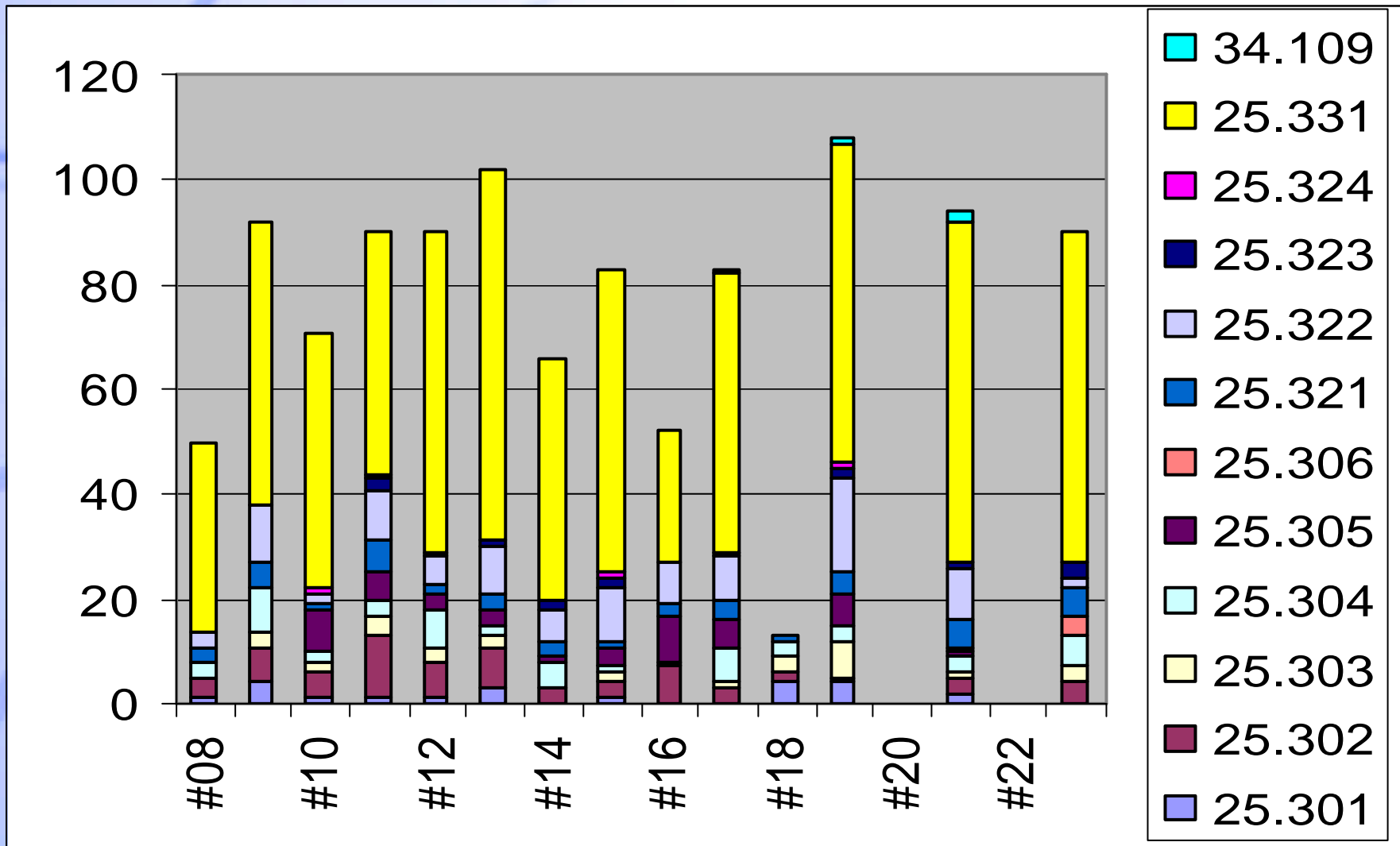
Liaison statements In/Out



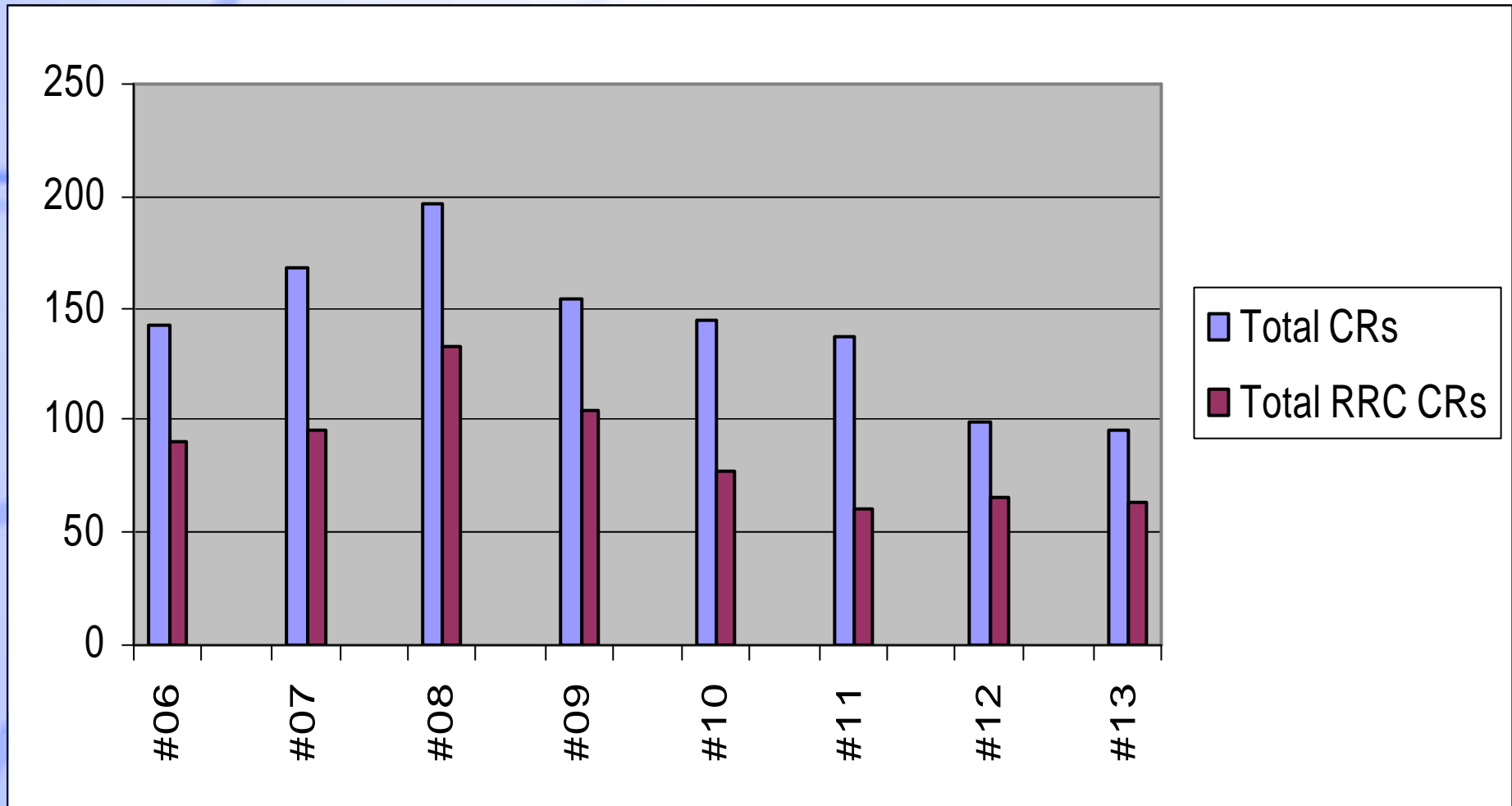
Total number of documents per meeting



Rel 99 Change Request statistics (1)



Rel 99 Change Request statistics (2)





Release 99 activities

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RLC

- **Protocol is stable; description is improved to ease interoperability and cover all cases unambiguously**
 - One major + one minor clarification CR

MAC/BMC

- Stable protocols for many meetings



PDCP

- **Some corrections on lossless SRNS relocation**
- **One major + some minor clarification CRs**

Cell selection/re-selection

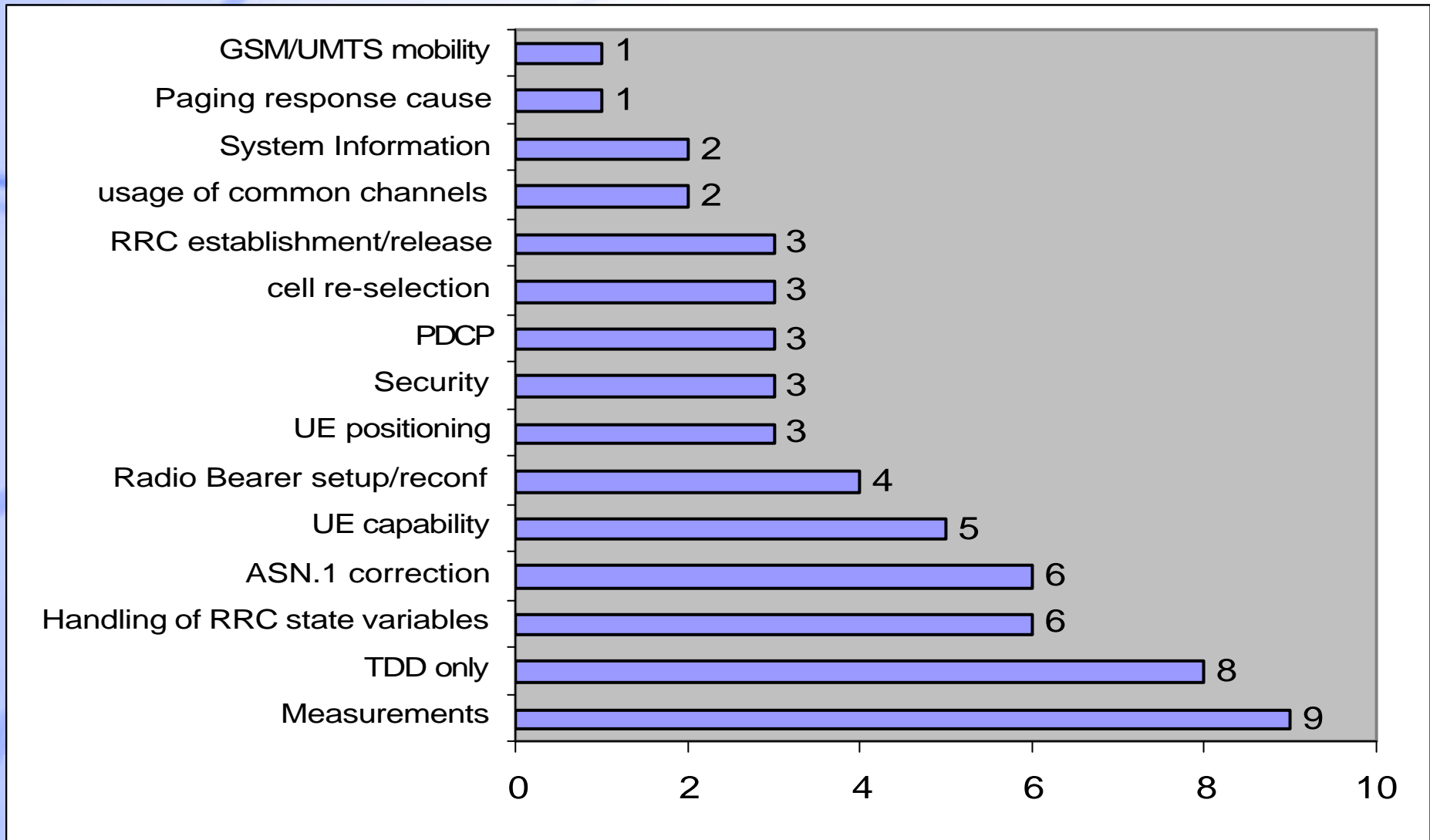
- **Document has become stable**
- **Some corrections**
 - Cell access restrictions
 - Correction of misalignments with MM



RRC

- **Still many corrections**
 - Some are real corrections
 - Some are clarifications => may not impact implementations
 - E.g. measurement procedures have been corrected for completeness => no change in functionalities, but previous description was far from clear and complete
- **CR 942 is on dedicated pilots to become a UE capability in R99**
 - Need for RAN confirmation

RRC CRs per function/category



Change Requests on rel 99 specifications

- Refer to RP-0010536 for complete list
- CRs are in RP-010537 to RP-000552
- Revision of CR 925 (shadow 926) is submitted seperately in RP-000671

Release independent frequency bands

- **25.307 Requirements on UEs supporting a Release Independent Frequency band**
- **In a joint meeting with RAN WG4, it was decided that 25.307 would be a shared responsibility, and that each band would be subdivided in two sub-sections:**
 - one on signalling requirements, source R2
 - One on RF and RRM requirements, source R4
- **25.307 v2.1.0 in RP-010557 is presented to RAN Plenary for information since the related Work Items are not completed in RAN WG4**

UE Positioning (UP)

- **Work continued on definition of tests for R99 radio interface**
 - Good progress
 - Meeting with T1 in July
 - Work handed over to T1
- **Joint meeting with RAN WG1**
 - Work now proceeds in RAN WG4 on performance requirements

Other

- **joint R2/R4/T1 ad-hoc group on tests for RRM**
 - Most issues were internal to T1, or between T1-RF and RAN4



Release 4 activities

RP-010535

Release 4 CRs

- **Some corrections on:**
 - Low Chip Rate TDD
- **Some clarifications on:**
 - PDCP
- **Refer to RP-0010536 for complete list**
 - CRs are in RP-010553 to RP-000555





Release 5 activities

RP-010535

List of release 5 Work Items under RAN WG2

- Radio access bearer support enhancement
- Improved usage of downlink resource in FDD for CCTrCHs of dedicated type
- Hybrid ARQ II/III
- High Speed Downlink Packet Access (HSDPA)
- High Speed Downlink Packet Access (HSDPA) - layer 2 and 3 aspects
- UE positioning enhancements
- UE positioning enhancements for 1.28 Mcps TDD
- Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning
- Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods
- Terminal power saving
- Pending Stage 1 and Stage 2: Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN



Radio access bearer support enhancement

- **Proposal for enhancement of IP header compression in case of SRNS relocation was made**
 - Current R4 functionality has some issues that need to be addressed
- **More work expected**

Improved usage of downlink resource in FDD for CCTrCHs of dedicated type

- No activity

Hybrid ARQ II/II

- No activity
 - HARQ progressed under HSDPA Work Item.

High Speed Downlink Packet Access

- **One joint meeting with RAN WG3**
- **Good progress, according to Work Plan**
 - Stage 2 almost complete, few open issues left.
- **TR 25.855 v2.0.0 which capture progress made on HSDPA is presented for approval**
 - See RP-010562
- **Detailed status report in RP-010561**
- **Proposal to replace the HSDPA TR by a TS [25.308]. Draft TS provided for approval, based on TR. Document in RP-010643**
 - TS without annexes can then be provided to ITU

UE Positioning (UP) enhancements

- No work on new positioning methods as per RAN request

UE positioning enhancements for 1.28 Mcps TDD

- **Activities on Angle of Arrival (for TDD)**
 - Questions sent to other WGs
- **Status report in RP-010559**
- **TR presented for information to RAN Plenary:**
 - See RP-010560

Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning

- **Work on Signalling Transport finalised in RAN WG3**
 - Work Item is completed
- **See RP-010639 for detailed status report**

Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods

- **Proposed CR on 25.305 that allows to extend the lupc interface to any positioning method in SMLC**
 - CR 060r1 to 25.305 was agreed for release 5, in RP-010556
- **Discussion on scope of Work Item**
 - A proposal to change the functionality of SMLC as compared to A-GPS SMLC was made, but this was felt to be out of the scope of the Work Item which is to extend the work done for A-GPS to other positioning methods
 - RAN to discuss this
- **See RP-010669 for detailed status report**

Terminal Power Saving

- No activity



Small Technical Enhancements and Improvements for Rel-5

- A discussion document on CPCH additions was presented.



Feasibility Study under RAN WG2

- **Improved Common DL Channel for Cell-FACH State**
 - Little activities from previous RAN meeting.
 - A LS from RAN1 was received in reply to a LS sent in May, but more information is needed prior to continuation of work.
- **See RP-010670 for detailed status report**

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3GPP

Release 5 Items under other WGs

RP-010535

UMTS1800 and UMTS1900 (RAN WG4)

- **Work completed in RAN WG2**
 - No CR submitted since WI is not completed in RAN4

USTS

- **Presentation of USTS was made**
 - Limited signalling impacts
 - Questions on system scenarios



Enhancement on the DSCH hard split mode

- RAN2 impacts were studied

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Conclusions

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Chairman's concluding remarks

- Rel 99 CRs are mostly clarifying uncomplete or ambiguous descriptions. Good progress on RRC, other protocols are stable.
- Standard quality has already made significant progress. More needed to achieve interoperability level.
- HSDPA on schedule. Hard and excellent work from all companies.

Past work has been paying off, release 99 quality improves, and stability is increasing. Please sustain efforts and keep experts active in RAN WG2