Status report of RAN WG2 to RAN #17

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RAN WG2 Chairman

RP-020534

Main activities since last RAN Plenary

- **Release 99 corrections**
  - Occupied 60% of last meeting
  - Reason of the time spent is that RAN WG2 is more and more strict on R99 corrections
    - It takes time to reject a CR i.e. identify all impacts if not approved
    - Corrections with minimum impacts are investigated extensively
- **Release 4 corrections**
  - Very minor
  - Some are delayed corrections from R99
- **Release 5**
  - Completion of small Work Items and HSDPA
  - Beginning of work on IMS RABs
- **Release 6**
  - Progress towards MBMS architecture

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RAN WG2 statistics

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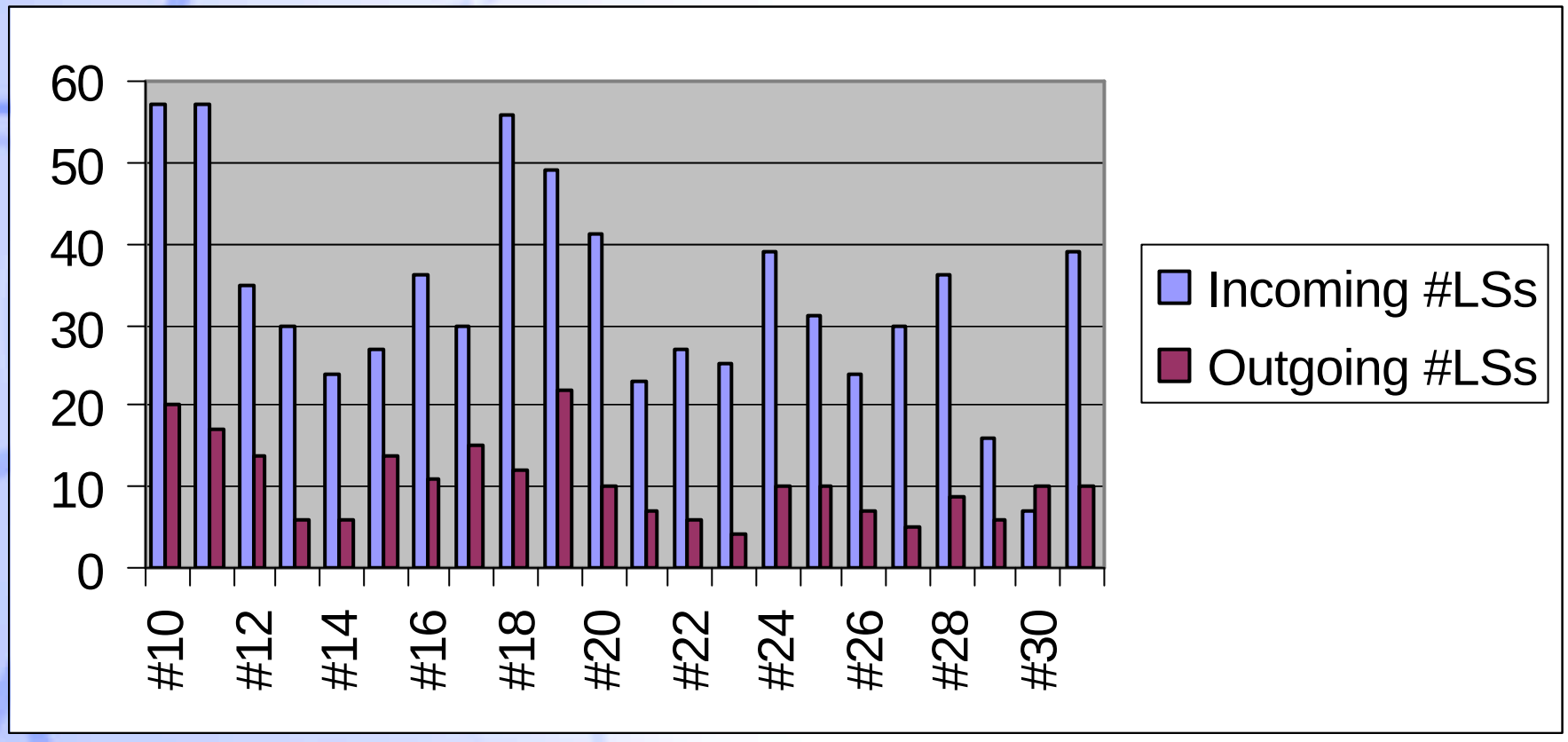
Meetings held since last RAN Plenary

- RAN WG2 #30 in June
- RAN WG2 #31 in August

Liaison statements In/Out



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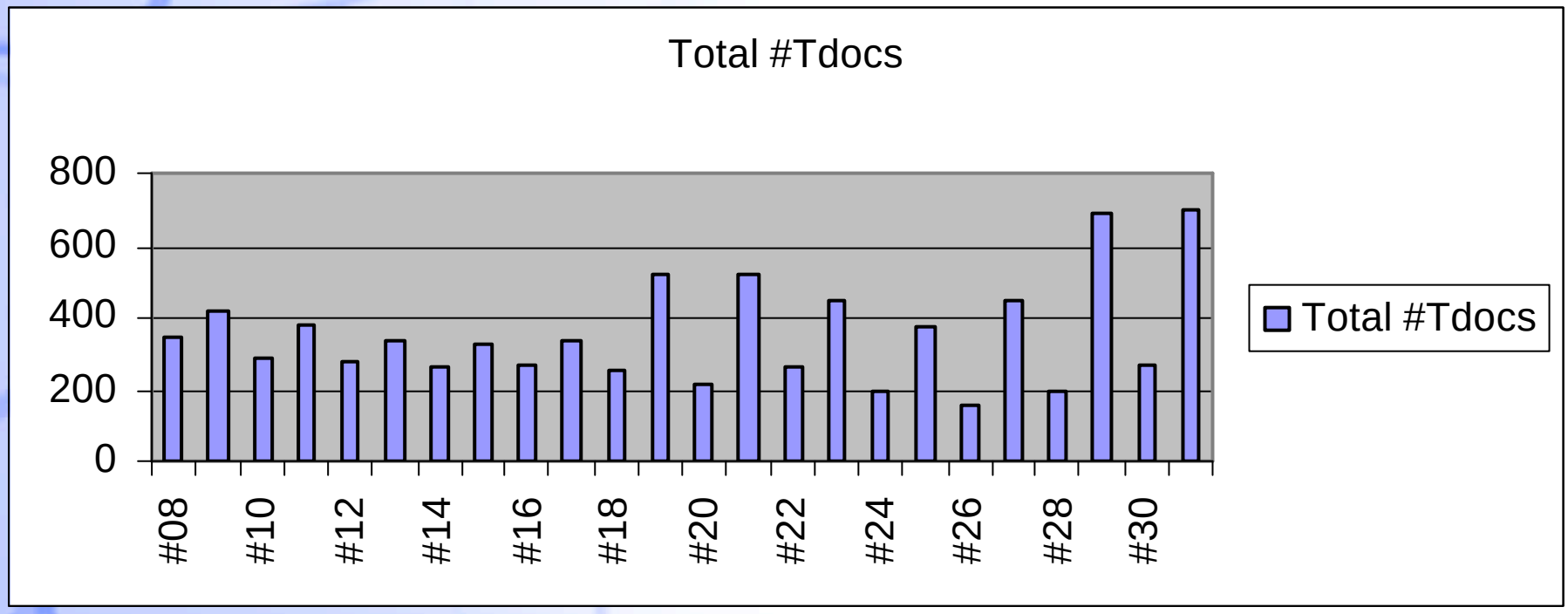
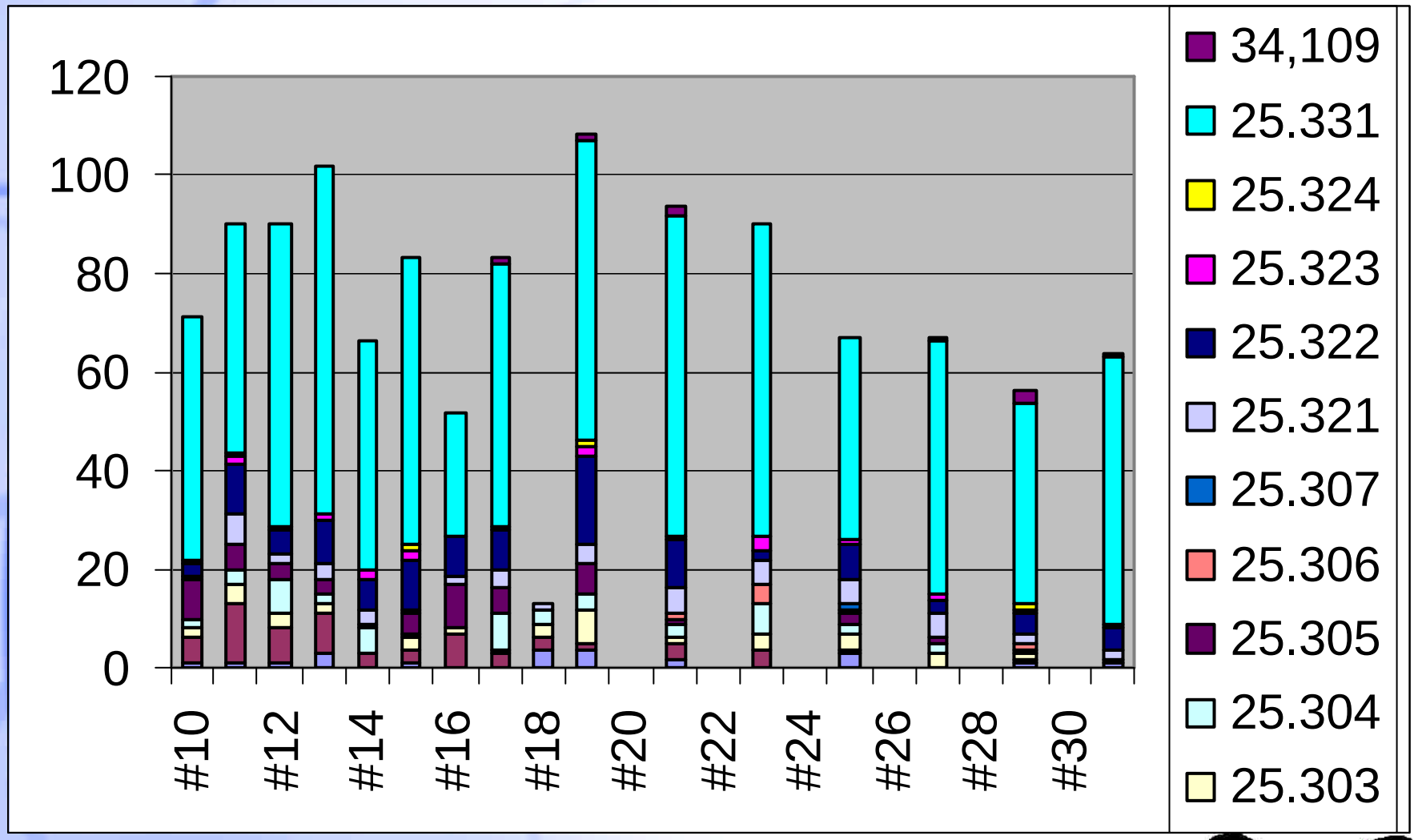
Total number of documents per meeting



Rel 99 Change Request statistics (1)



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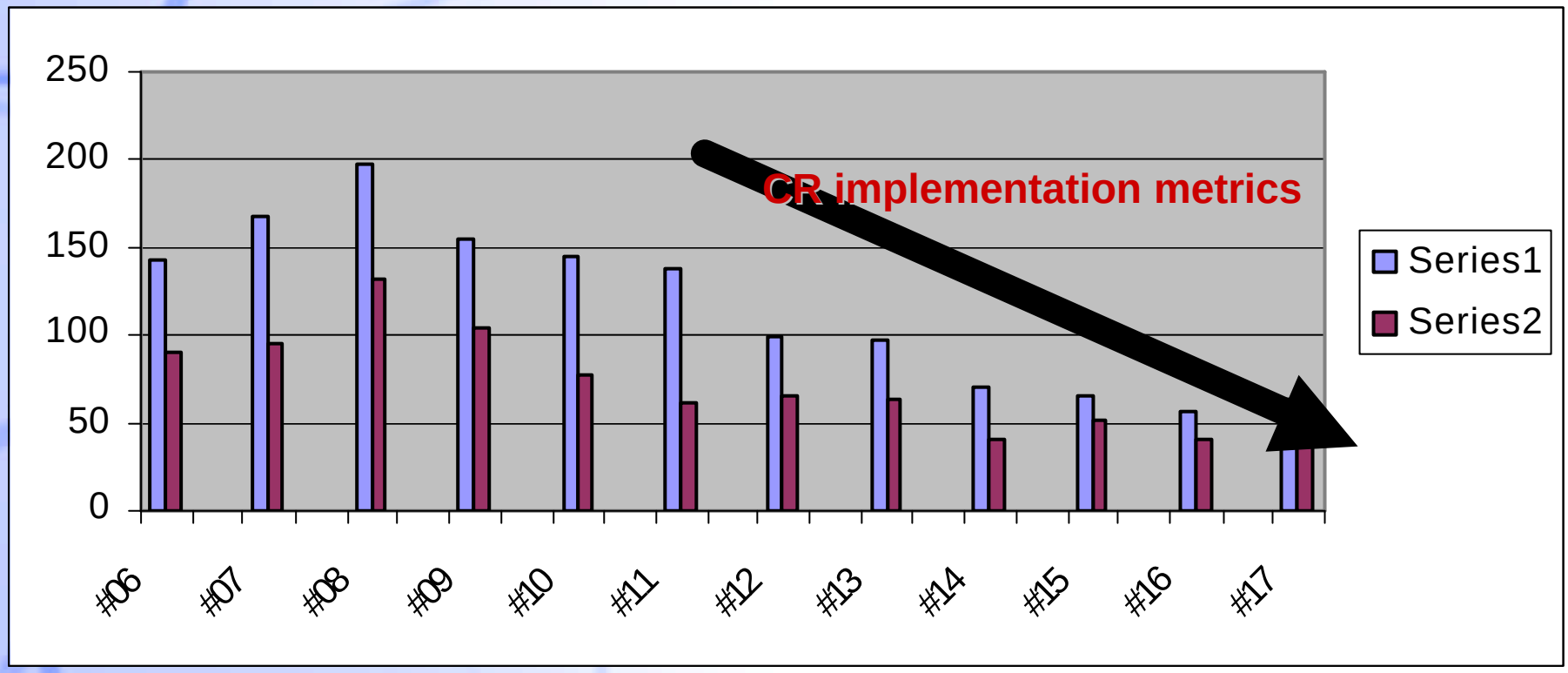
Rel 99 Change Request statistics (2)



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Release 99 activities

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RLC

- Protocol is stable
- Some minor corrections

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3GPP

MAC/BMC/PDCP

- **Stable**

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Cell selection/re-selection

- **Stable**

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3GPP

RRC

- **Still many needed corrections**
  - Size of the corrections, and impact on actual implementations or interoperability, is decreasing
    - Smaller CRs
    - Most CRs should not impact an educated implementation…
- **First item was measurements on which considerable effort was spent; security CRs drying out. Others are small corrections.**
- **Many proposed CRs were rejected (about 20)**
- **Several corrections are stating that the functionality cannot be used in R99 and that the UE bahaviour is unspecified**

Change Requests on R99 specifications

- **Refer to RP-020535 for complete list of RAN WG2 agreed CRS**
- **Other CRs submitted to the plenary**
  - RP-020564 and RP-02595: Two correctly correct CRs, none agreed. Resolution needed during RAN Plenary
  - RP-020XXX: improvement of an agreed CR. Nothing controversial (hopefully).

Release independant frequency bands

- **Complete**

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New RABs in 34.108

- **Discussion took place in RAN WG2 following a proposed addition of new RABs/RBs in 34.108**
- **Two opposing objectives**
  - Willingness to stabilise 34.108 to avoid load in T1. 34.108 is a test specification to build test equipments.
  - Willingness to add RABs/RBs in 34.108 because of the belief that « this is the best way to ensure that something works in mobiles». Therefore many RABs added in 34.108 do not add test coverage, but rather a reference used e.g. in IOTs, commercial discussions, etc, much before actual RAB is validated in TTCN language.
- **Discussion took place in RAN WG2 on how to reconcile these two opposing objectives.**

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Release 4 activities

RP-020534

Release 4 CRs TBD

- Some corrections, mainly functions pushed from R99
- Refer to RP-020535 for complete list

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Release 5 activities

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Release 5 CRs

- Some corrections, mainly on HSDPA
- Refer to RP-020535 for complete list

HSDPA

- **Usefulness of flow control mechanisms on radio interface to cope with congestion of UE external interfaces e.g. Bluetooth, was recognised. However no acceptable solution yet.**
- **Discussions on proposed enhancements to MAC-hs operation. No decision since need for the enhancements are not agreed**
- **Signalling finalised on TB size**
- **Alignment with latest RAN WG1 decisions**
  - 16QAM optional for low UE classes

Small Technical Enhancements and Improvements for Rel-5

- **NACC for 3G -> 2G HO should be finalised at the next meeting**
- **Compression of RRC signalling**
  - For UTRAN: proposal to discuss
  - For 2G/3G: proposal to discuss
- **RNC reset: discussion ongoing**
- **Event 1b retransmission: principle agreement**
- **Dedicated pilots mandatory in R5: CR agreed**

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Release 6 activities

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List of release 6 Work Items under RAN WG2

- MBMS
- Improved usage of downlink resource in FDD for CCTrCHs of dedicated type
- Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods
- Radio access bearer support enhancement
- UE positioning enhancements
- Terminal power saving

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MBMS

- Joint meeting with RAN WG3 on UTRAN architecture aspects
- Important progress in understanding various proposals for MBMS
- Conclusion on way forward planned for next meeting

Small Technical Enhancements and Improvements for Rel-6

- **No activity.**

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3GPP

Feasibility Study under RAN WG2

- **Enhancements to OTDOA Positioning using advanced blanking methods**

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Enhancements to OTDOA Positioning using advanced blanking methods

- **Progress on understanding one proposal**
  - UE assisted network based method found feasible from a signalling/network standpoint
    - RAN WG1 can proceed on the actual signal processing technique
  - UE based network assisted method seem to incur important delay on radio interface
    - On hold

Release 6 Items under other WGs

- No activity

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Conclusions

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Chairman's concluding remarks

- R99
  - **R99 still took most of RAN WG2 meeting time (60% of last meeting) because every CR is screened extremely extensively:**
    - **Many CRs have started being rejected**
    - **Many functionalities have been decided NOT to be corrected in R99, after intense analysis of the consequences**
      - **All this takes time!!!**
  - **Assistance to T1 has been organised**
- HSDPA completed
- Several TEI5 proposed
- Future work should be mainly on:
  - **R99 corrections (still), HSDPA, IMS RABs, MBMS**

Past work has been paying off
release 99 changes decrease, quality increases.

Please sustain efforts and keep experts active in RAN WG2