



Status report of RAN WG2 to RAN #11

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RAN WG2 Chairman

RP-010017



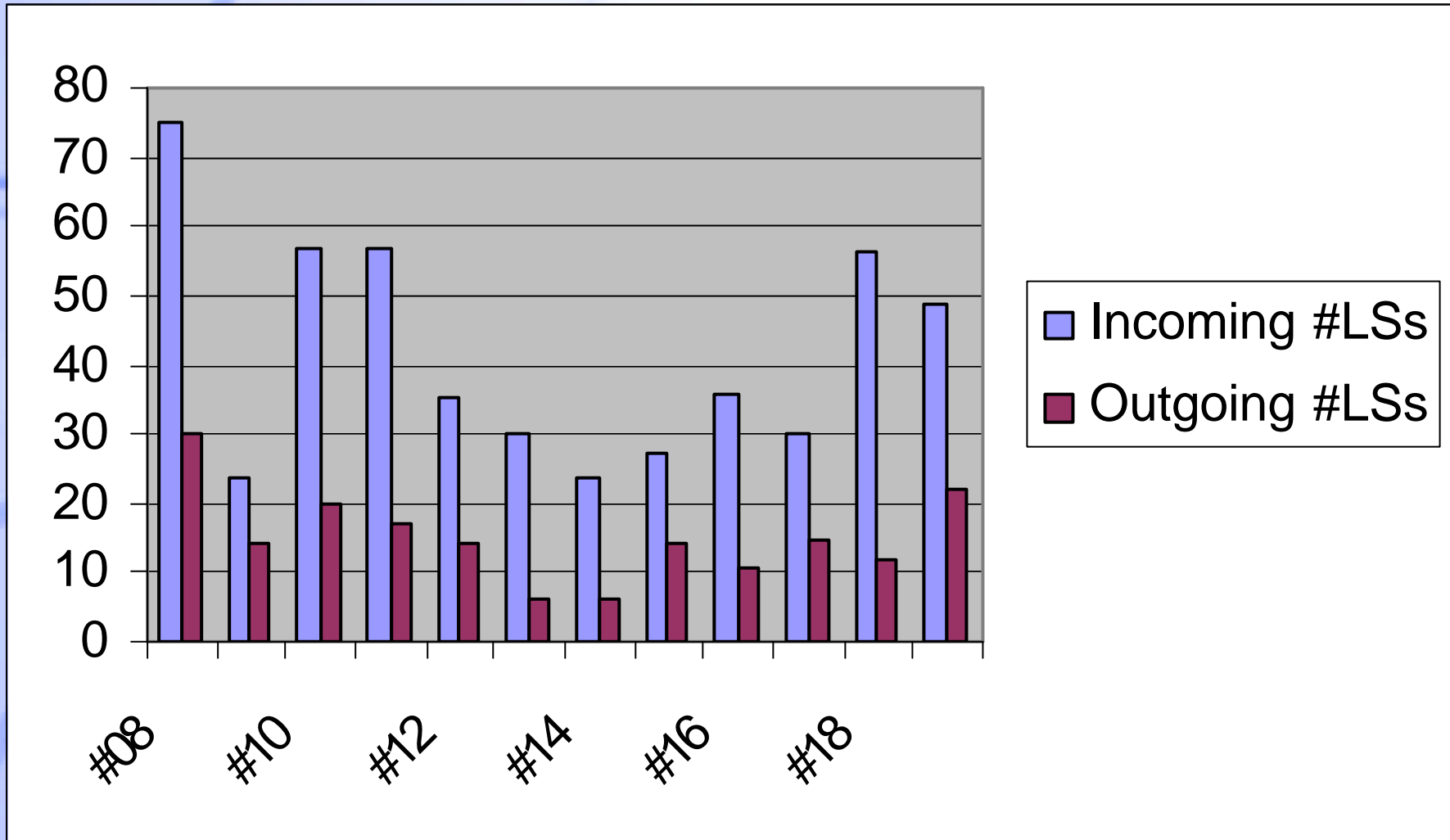
RAN WG2 statistics

RP-010017

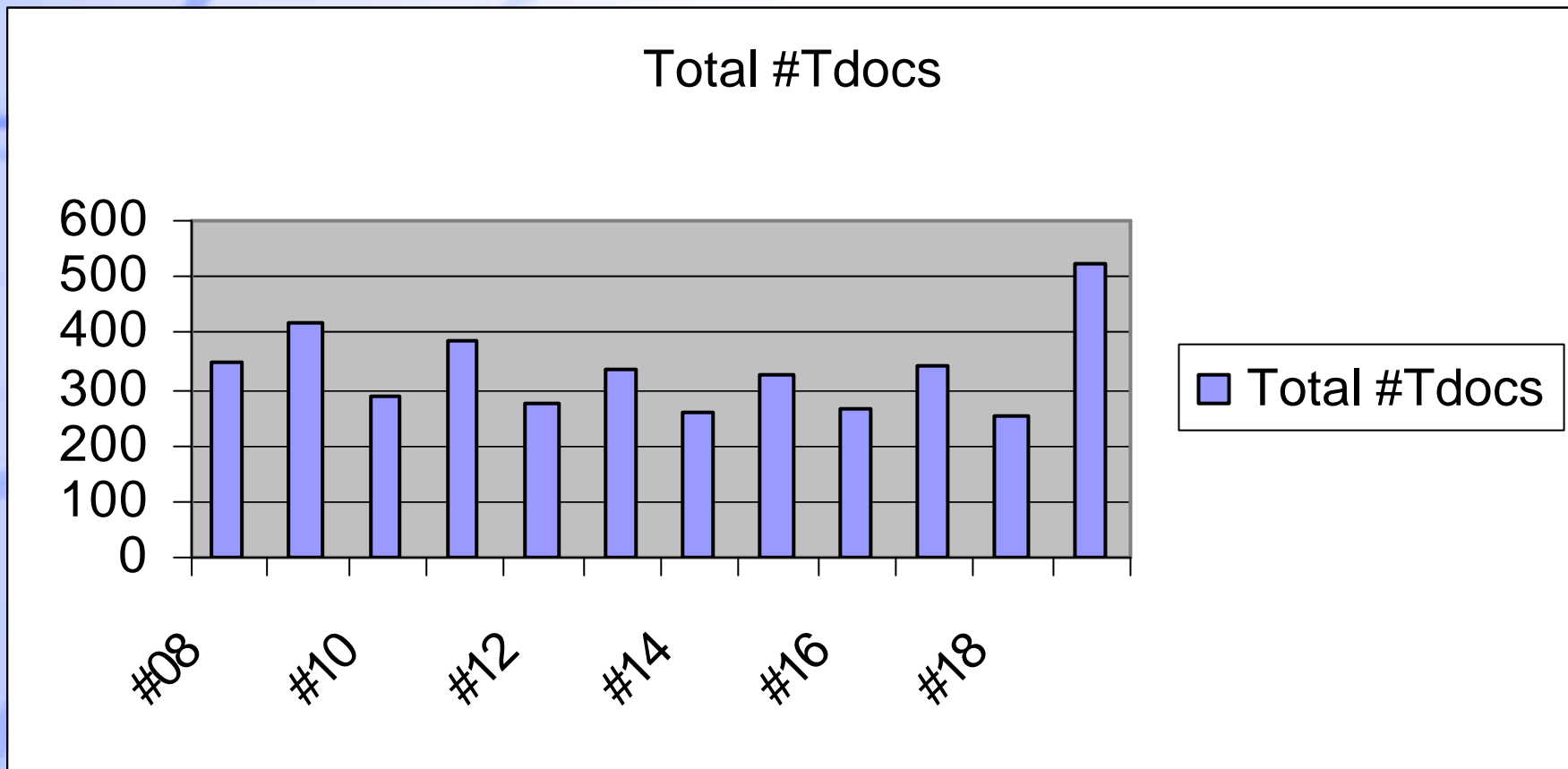
Meetings held since last RAN Plenary

- **RAN WG2#18 in January**
- **RAN WG2 #19 in February**
- **RAN WG2 ad-hoc on Feasibility Studies**
- **Some Workshop where RAN WG2 was invited:**
 - SA Workshop on Idle Mode Workshop
 - SA Workshop on LCS architecture
 - RAN Workshop on UTRAN evolution

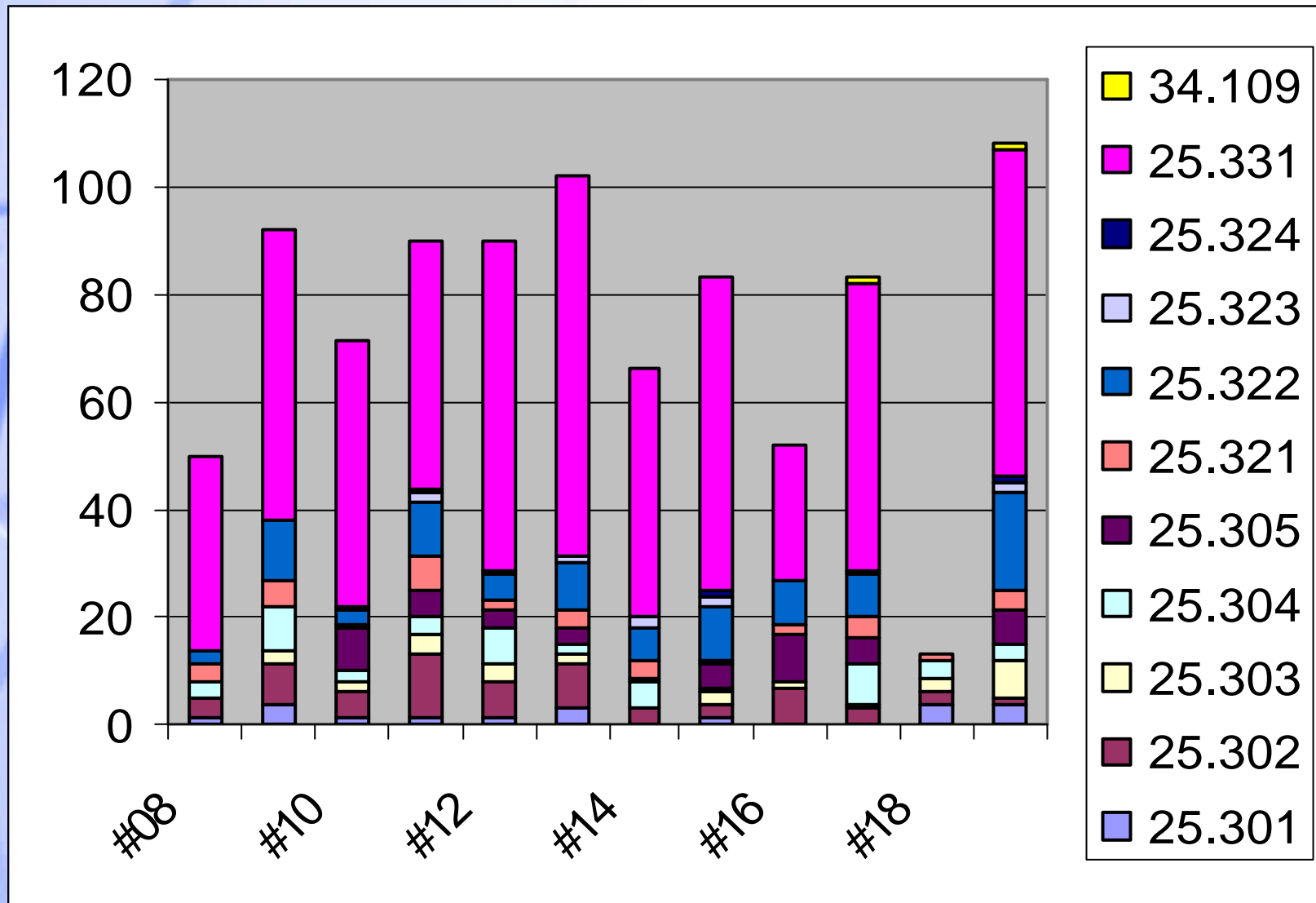
Liaison statements In/Out



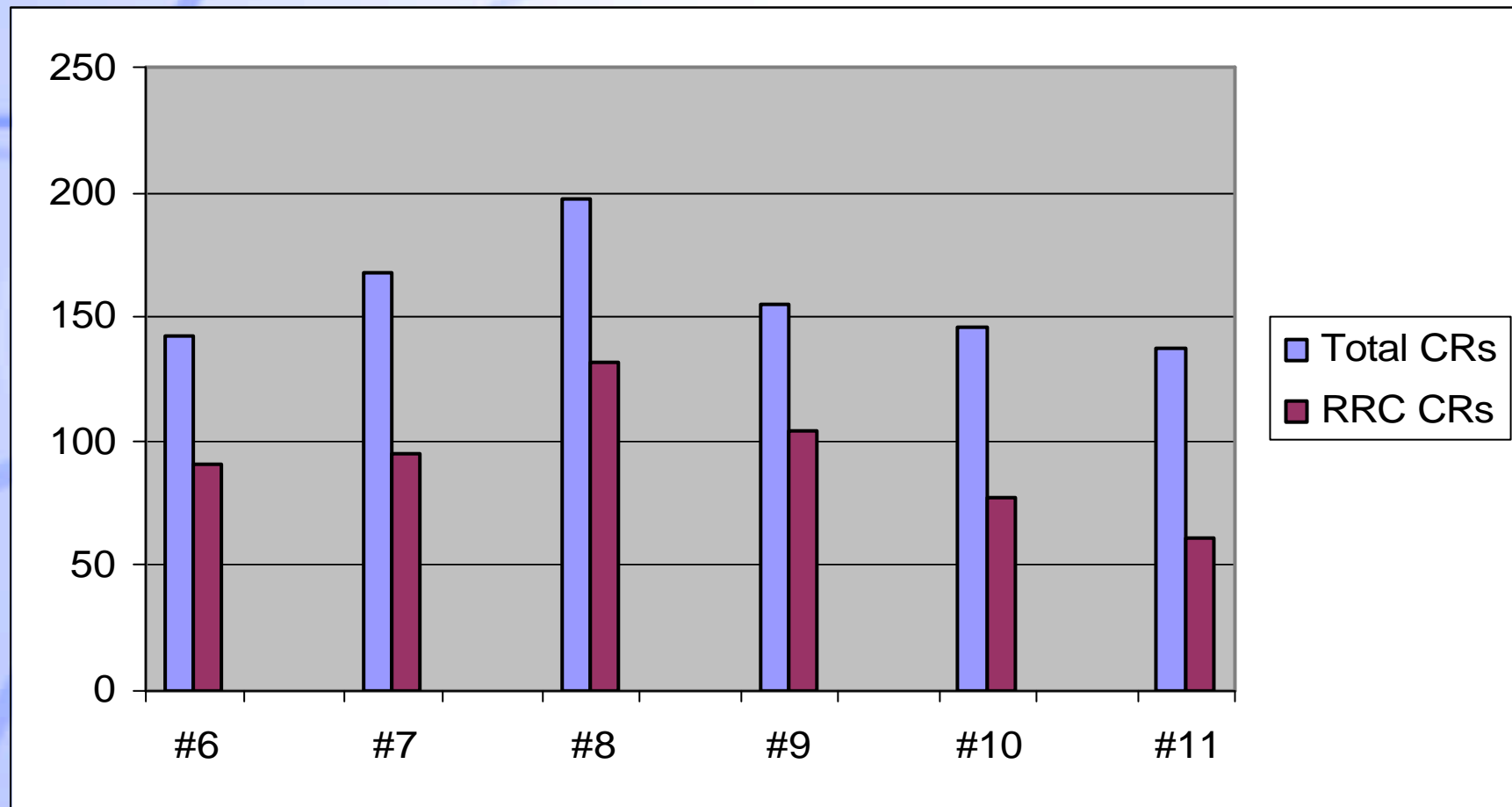
Total number of documents per meeting



Rel 99 Change Request statistics (1)



Rel 99 Change Request statistics (2)





Release 99 activities

RP-010017

General

- **Release 99 corrections**
 - Most corrections are describing aspects which were insufficiently described or unclear
 - Few actual radio interface modifications
- **All release 4 Work Items under RAN WG2 are completed**
- **Release 99 still occupying more than 50% of meeting time, and most of delegates activities**

RLC

- **Many detailed clarifications but few actual changes**

PDCP/MAC/BMC

- Not much, stable protocols for many meetings



Cell selection/re-selection

- **Stable since last meeting**
 - Few corrections, some which were identified in Idle Mode Workshop
- **One agreed CR needs to be revised based on latest CN1 meeting**
 - CR 064 rev 2 on 25.304 needs to be revised. Revision is on NAS functionality in model, no AS impact.

RRC

- All open issues identified at the last meeting have been closed
- Still many CRs, but they are less and less impacting, and more and more detailed.



Change Requests on rel 99 specifications

- Refer to RP-0010018 for complete list
- CRs are in RP-010019 to RP-000036



Identified areas for next meetings

- **Potentially more hard coded pre-configurations**
 - Request from operators for more pre-configurations => some may be added until June; joint activity with RAN WG1.

Other

- **All specifications and reports were reviewed prior to be moved to release 4**
 - Some editorial CRs were made
 - All specifications and reports will be moved to release 4 except 25.925
- **One contentious CR on a new security feature that may be requested by SA3**
 - LS was sent.



Release 00 activities

RP-010017

Introduction

- All WIs under RAN WG2 responsibility are completed
- Some CRs on « Small Technical Enhancements and Improvements for Rel-4 »
- New WI proposed « Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning »
- Other WIs
 - Node B synchronisation
 - Terminal power saving
 - DSCH power control improvement in soft handover



List of release 4 Work Items under RAN WG2

- Low chip rate TDD layer 2 and layer 3 protocol aspects
- Low Chip Rate TDD UE Radio Access Capability
- Radio access bearer support enhancement
- UE positioning enhancements

List of Feasibility Study under RAN WG2

- High Speed Downlink Packet Access
- Improved Common DL Channel for Cell-FACH State



Low chip rate TDD

- **TRs were approved at RAN #10**
 - Low chip rate TDD layer 2 and layer 3 protocol aspects, TR 25.834
 - Low Chip Rate TDD UE Radio Access Capability, TR 25.843
- **CRs are completed for both WIs**
 - Status report in RP-010052 and RP-010053
 - CRs in RP-010037 and RP-010038

UE Positioning (UP) enhancements

- **Work done in UP ad-hoc that meets in parallel to RAN WG2, with results approved in RAN WG2**
- **TR 25.847 v2.0.0 presented for approval**
 - OTDOA -IPDL for TDD : completed
 - Almanac corrections: not in release 4
 - Positioning elements: not in release 4
- **Status report in RP-010045**
- **CRs in RP-010040**
- **TR in RP-010046**
- **WI proposed to be continued for release 5**



Radio access bearer support enhancement

- **TR 25.844 v2.0.0 presented for approval**
 - IP header compression (ROHC) for RT services (VoIP, streaming...): completed
 - IP header removal (speech optimised bearer) studied in TSG GERAN: not in release 4
- **Status report in RP-010047**
- **CRs in RP-010039**
- **TR in RP-010048**
- **WI proposed to be continued for release 5**

High Speed Downlink Packet Access

- TR 25.950 v2.0.0 presented for approval
- Work completed
- The following techniques are proposed for inclusion in release 5:
 - new Transport Channel, HS-DSCH, terminated in Node B
 - new MAC at the Node B with HARQ and scheduling of HS-DSCH
 - Adaptive Modulation and Coding
- The following techniques were studied but are not proposed for inclusion in release 5:
 - fast cell selection
 - MIMO
 - Stand-alone DSCH
- Status report in RP-010049
- TR in RP-010050

Improved Common DL Channel for Cell-FACH State

- **A new proposal was made:**
 - probing UE prior to actual FACH transmission to improve power control of FACH
 - a LS was sent to RAN WG1 for opinion on feasibility
 - No conclusion

Small Technical Enhancements and Improvements for Rel-4

- **Agreed CRs in RP-010043**
 - DSCH status vs UE capability
- **One CR to be discussed in RAN Plenary**
 - CPCH status vs UE capability
 - See LS from RAN WG2 RP-010013

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

- **NOT YET a Work Item in RAN. It was proposed at SA Workshop in January.**
 - Purpose is to introduce optional interface between RNC and A-GPS positioning calculation server, so as to allow delocalisation function from RNC. No impact on other interfaces.
 - WI sheet to be submitted by supporting companies
 - See RP-010081
- **Activity has started according to SA Workshop conclusions:**
 - Stage 2 completed in 25.305. CRs in RP-010044
 - Stage 3 in RAN WG3: not completed.

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

- No activity; this is a release 5 Work Item

Terminal Power Saving (RAN WG1 responsible)

- **Discussions on DPCCH gating**

- When considering radio interface, CELL_FACH from release 99 is superior to DPCCH gating from terminal saving point of view
- Proponents claim that DPCCH gating has important gains on Iub/Iur (signalling load and transition delay) compared to transitions to CELL_FACH
- LS was sent to RAN WG3 to validate Iub /Iur aspects
- Response from RAN WG3 needed prior to continuation
- Proposed to be extended until June 01

Node B synchronisation (RAN WG1 responsible)

- CRs were agreed.
- CRs are in in RP-010041.



DSCH power control improvement in soft handover (RAN WG1 responsible)

- CRs were agreed.
- CRs are in in RP-010042.

Other

- **Proposed WI on Broadcast/multicast services was reviewed**
 - Low impacts expected in RAN specifications; Work should first proceed in SA2 to define system aspects.

Conclusions

Chairman's concluding remarks

- Rel 99 CRs are mostly clarifying uncomplete descriptions. Good progress on RRC, other protocols are stable.
- Standard quality has already made significant progress. More needed to achieve interoperability level.
- Release 4 was completed in time, but majority of delegates is still busy with release 99. This now means more work with duplication of specifications, and maintenance of two releases.

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