Status report of RAN WG2 to RAN #16

Denis Fauconnier

RAN WG2 Chairman

RP-020319

Main activities since last RAN Plenary

- **Release 99 corrections**
  - Occupied 90% 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
  - Beginning of work on IMS RABs
- **Release 6**
  - Start of work on MBMS

NORTEL NETWORKS

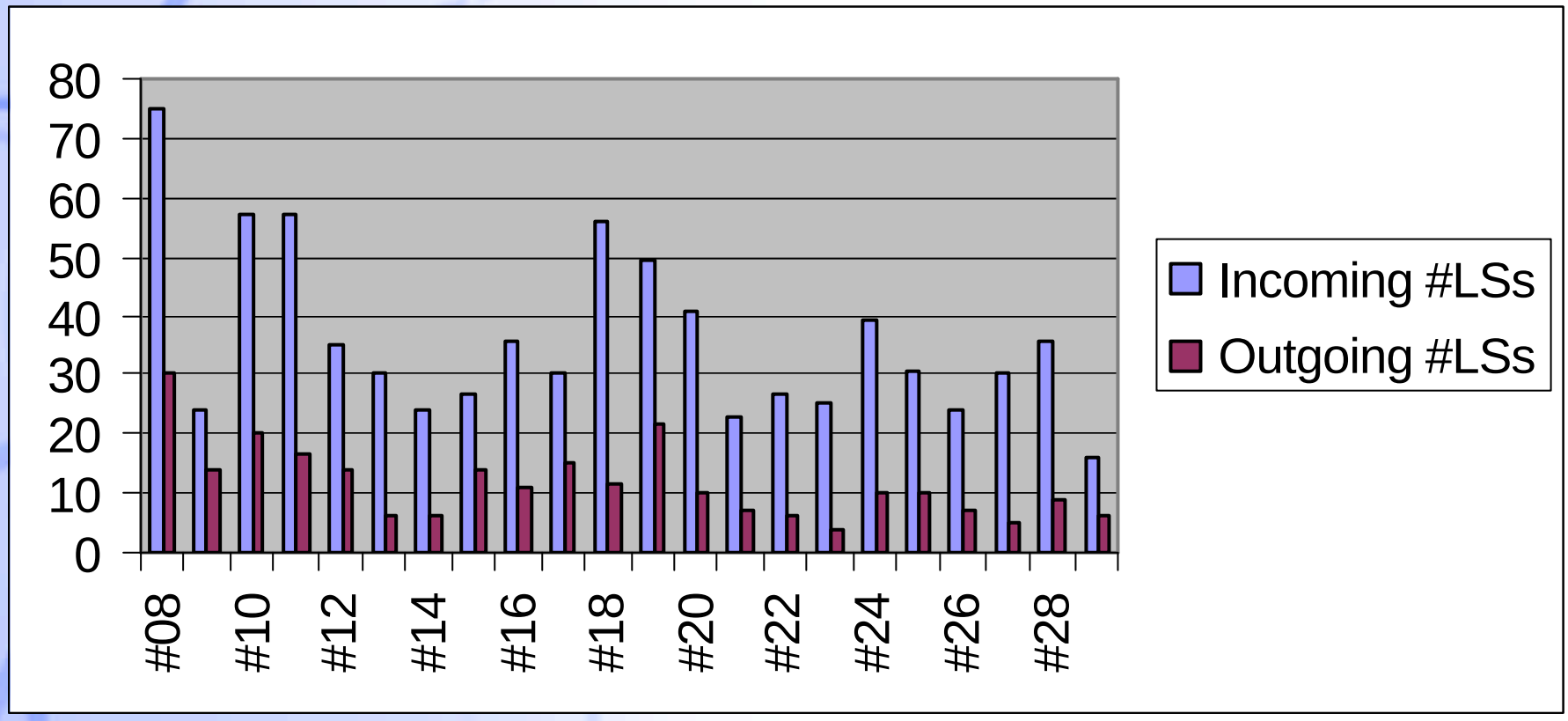
RAN WG2 statistics

RP-020319

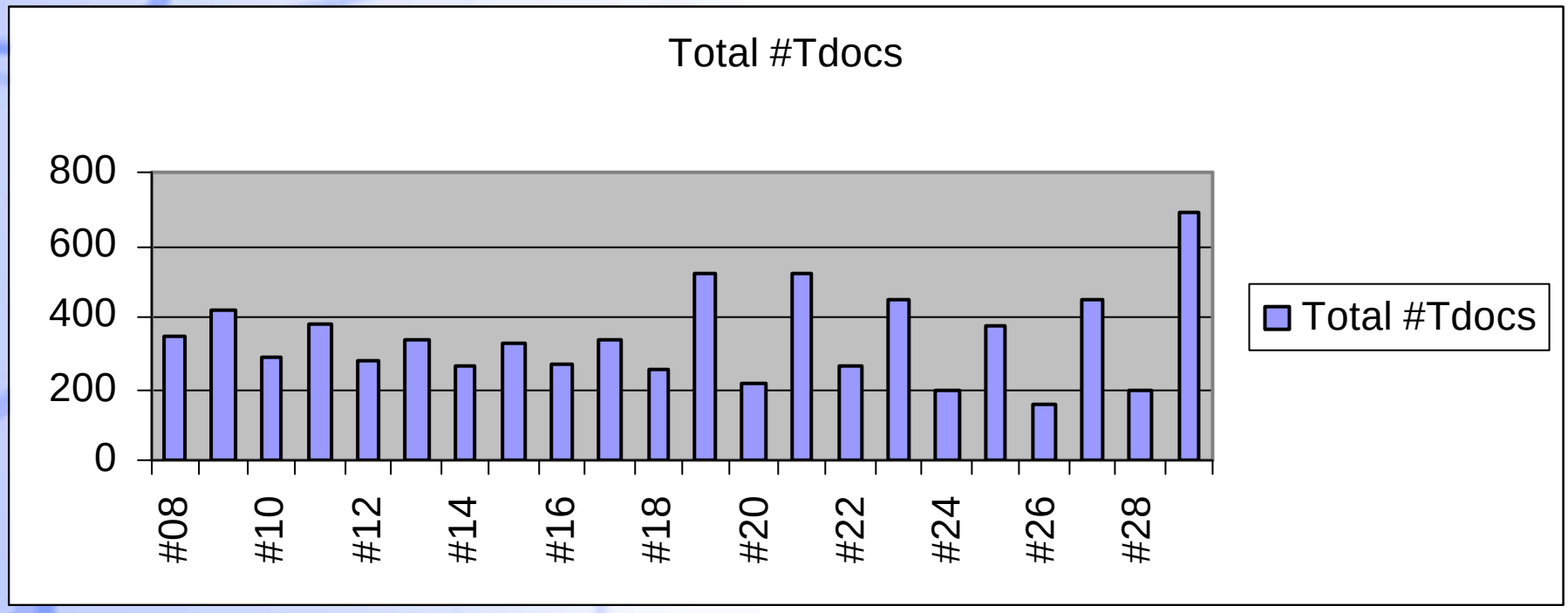
Meetings held since last RAN Plenary

- RAN WG2 #28 in April
- RAN WG2 #29 in May

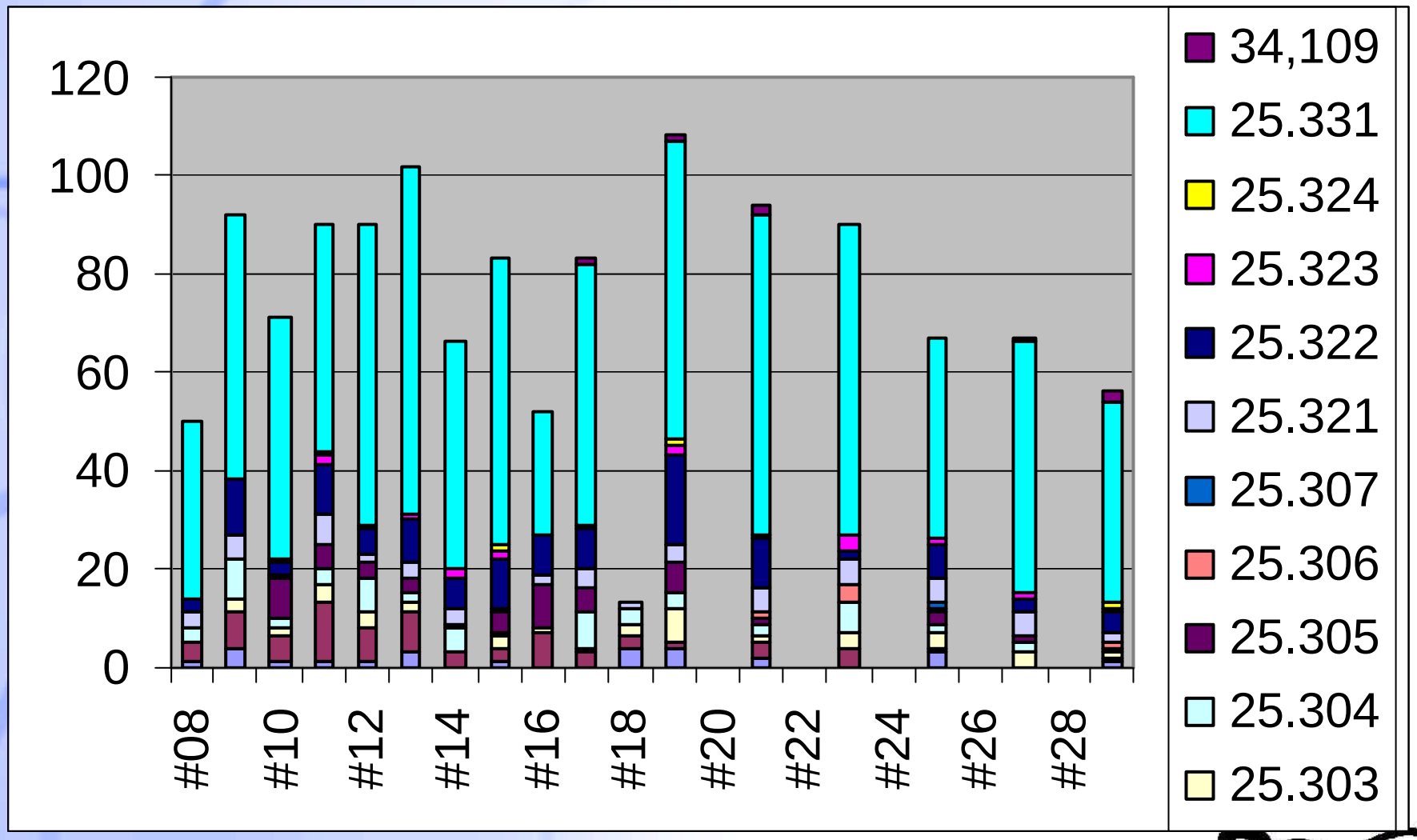
Liaison statements In/Out



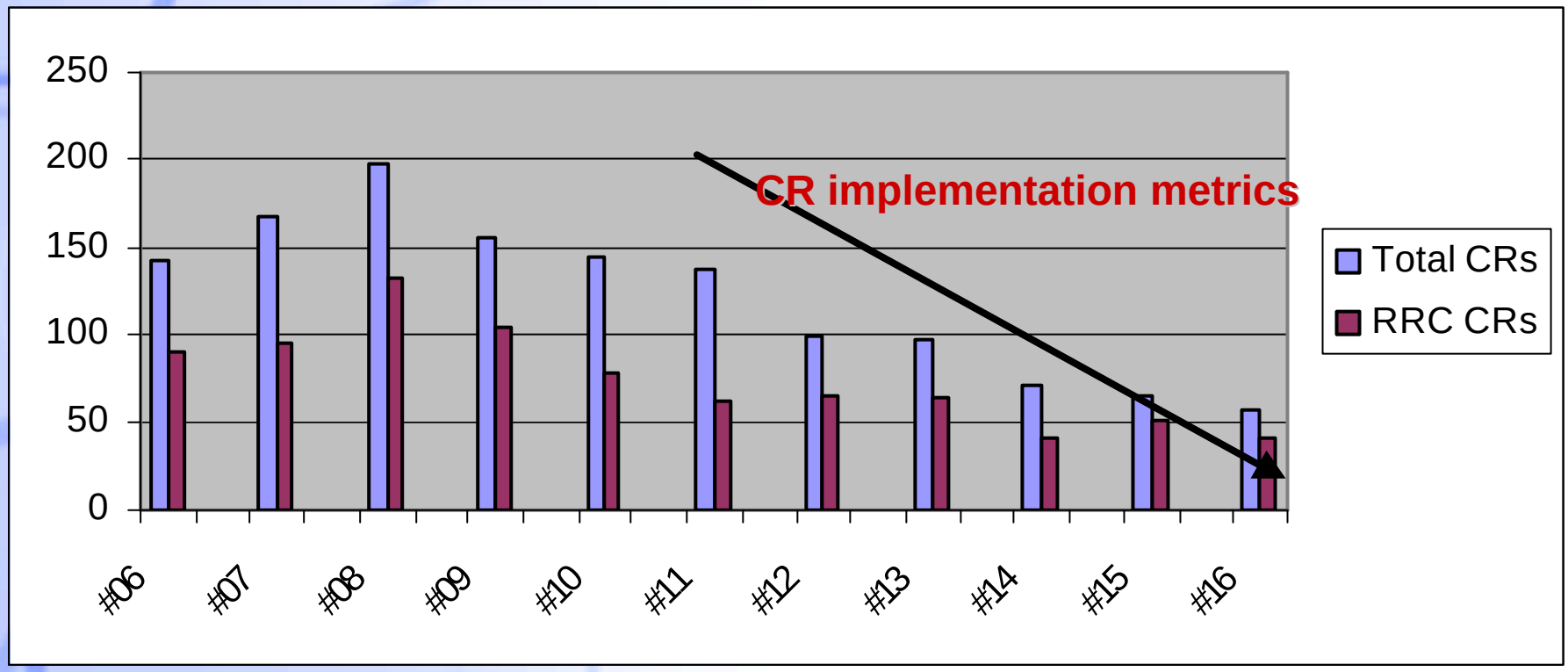
Total number of documents per meeting



Rel 99 Change Request statistics (1)



Rel 99 Change Request statistics (2)



NORTEL NETWORKS

Release 99 activities

RP-020319

RLC

- Protocol is stable
- Some minor corrections

NORTEL NETWORKS

RP-020319

3GPP

MAC/BMC/PDCP

- **Stable**

NORTEL NETWORKS

RP-020319

3GPP

Cell selection/re-selection

- **Stable**

NORTEL NETWORKS

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…
- **Many proposed CRs were rejected (about 20)**
- **Many corrections are stating that the functionality cannot be used in R99 because the UE bahaviour is unspecified**

Change Requests on R99 specifications

- **Refer to RP-020320 for complete list of RAN WG2 agreed CRS**
- **Other CRs submitted to the plenary**
  - RP-020363 on measurement validity, on which e-mail approval took longer than planned
    - Last version was distributed on RAN WG2 reflector Thu, 30th of May.
  - RP-020381, revision of CRs 1484, 1485 and 1486 which were agreed by e-mail, but on which further comments were received on overlooked corrections
  - RP-020382 on measurements, is a revision of an agreed CR with one correction removed and proposed to be treated separately in RP-020383.
  - RP-020383 complementing RP-020382. Discussions expected on how to finalise this particular point.

Release independant frequency bands

- **Complete**

NORTEL NETWORKS

RP-020319

3GPP

NORTEL NETWORKS

Release 4 activities

RP-020319

Release 4 CRs

- Some corrections, mainly functions pushed from R99
- Refer to RP-020320 for complete list

NORTEL NETWORKS

Release 5 activities

RP-020319

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
- 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
- Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN

NORTEL NETWORKS

Radio access bearer support enhancement

- **Proposal for enhancement of IP header compression in case of SRNS relocation was made**
  - Proposed for approval in the Plenary
  - See RP-020343, RP-020344, RP-020345

NORTEL NETWORKS

3GPP

High Speed Downlink Packet Access

- **Was completed in March 02.**
- **Main activities:**
  - TB size signalling (significant progress but still open)
  - L2 buffer sizes (some progress but still open)
  - Usage of UM for high bit rate (discussed. Closed)
  - QoS - handling of delay attribute as t relates to MAC-hs operation and support on NBAP - some initial discussion - not concluded.
  - Call Admission Control support - need for more discussion and conclusion
  - Usage of MAC-hs signalling vs. L1 signalling - LS from RAN3 - some early discussion. More discussion in next meeting.
  - Minor procedural text related to MAC-hs operation, radio link failure and operation of HSDSCH, power control fro TDD, etc. - concluded - CRs agreed for 25.331.
  - Alignment of specifications with RAN WG1 and WG3 - concluded (but still ongoing based on RAN1 work) - CRs agreed on for RAN#16 for 25.331

Small Technical Enhancements and Improvements for Rel-5

- **No time available.**

NORTEL NETWORKS

3GPP

Other

- Proposal made to open a TR on IMS RABs
- Review of 34.123 organised informely with RAN WG2 experts
- Impacts on test specifications taken into account

Feasibility Study under RAN WG2

- None

NORTEL NETWORKS

RP-020319

3GPP

Release 5 Items under other WGs

- All completed as requested by responsible WG

NORTEL NETWORKS

Release 6 activities

RP-020319

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
- UE positioning enhancements
- Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods
- Terminal power saving
- Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN

Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN

- **Some work and list of questions sent to MBMS Workshop**
- **Broad RAN representation in MBMS Workshop**
  - RAN2 is asked to work on a TR on Radio Requirements for MBMS
- **Work to be continued**
  - Next step is on studying/defining the UTRAN functionalities for MBMS i.e. start the stage 2
  - Planned to involve RAN WG3 in August (co-located meetings)

NORTEL NETWORKS

Conclusions

RP-020319

Chairman's concluding remarks

- R99
  - **R99 still took most of RAN WG2 meeting time (90% 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**
- Still some work needed for HSDPA full completion
- Other small R5 work items completed as planned
- 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

A very last conclusion…

Thank you Hans

NORTEL NETWORKS