NORTEL NETWORKS

3GPP

Status report of RAN WG2 to RAN #21

Denis Fauconnier

RAN WG2 Chairman

RP-030408

Main activities since last RAN Plenary

- **Release 99 corrections**
  - Occupied 2 (down from 3) days of last meeting, number of CRs is stable.
- **Release 4 corrections**
  - Very few
- **Release 5**
  - Few HSDPA corrections
  - Some other R5 corrections
  - Completion of GERAN Iu mode (last R5 item)
- **Release 6**
  - RAN2 and RAN3 progressing now in parallel, well synchronised
  - Many contributions on MBMS
  - Activitiy starting (slowly) on IMS, decision on Iupc, some TEIs.

NORTEL NETWORKS

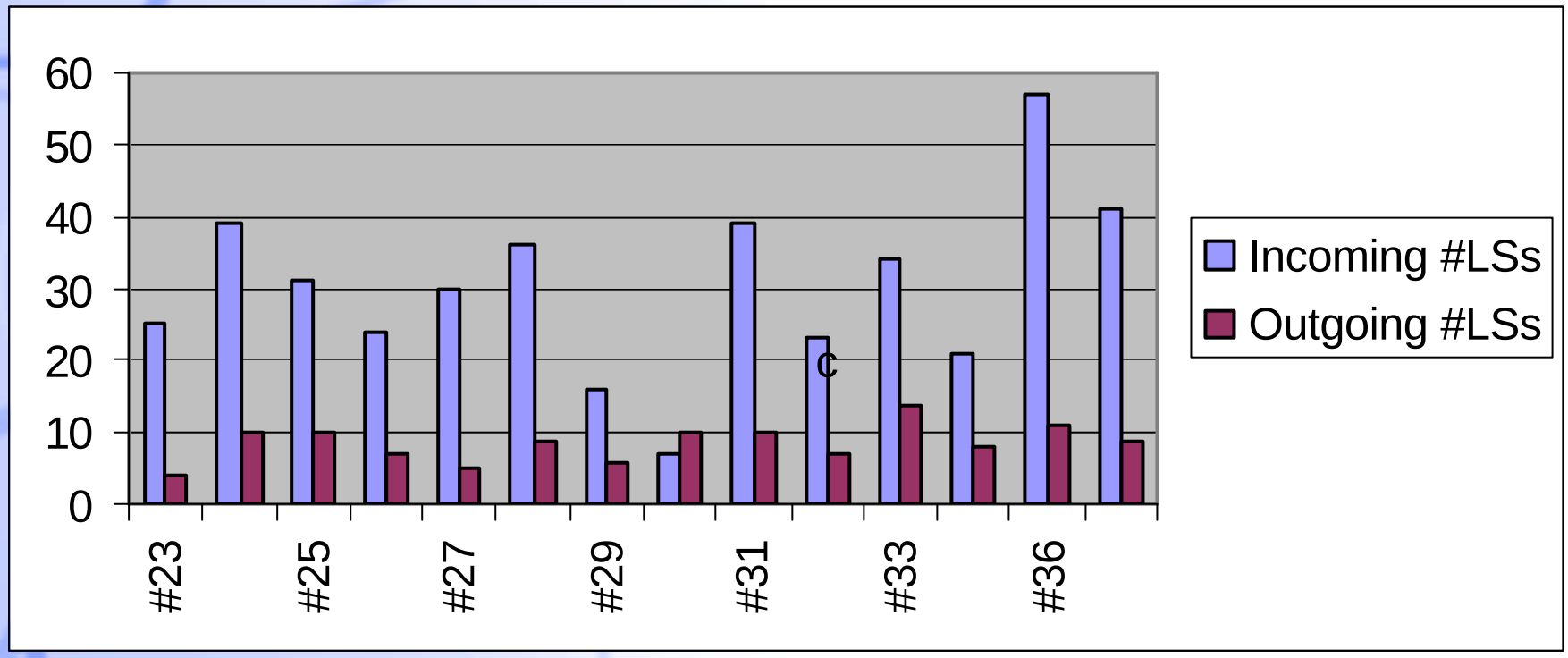
RAN WG2 statistics

RP-030408

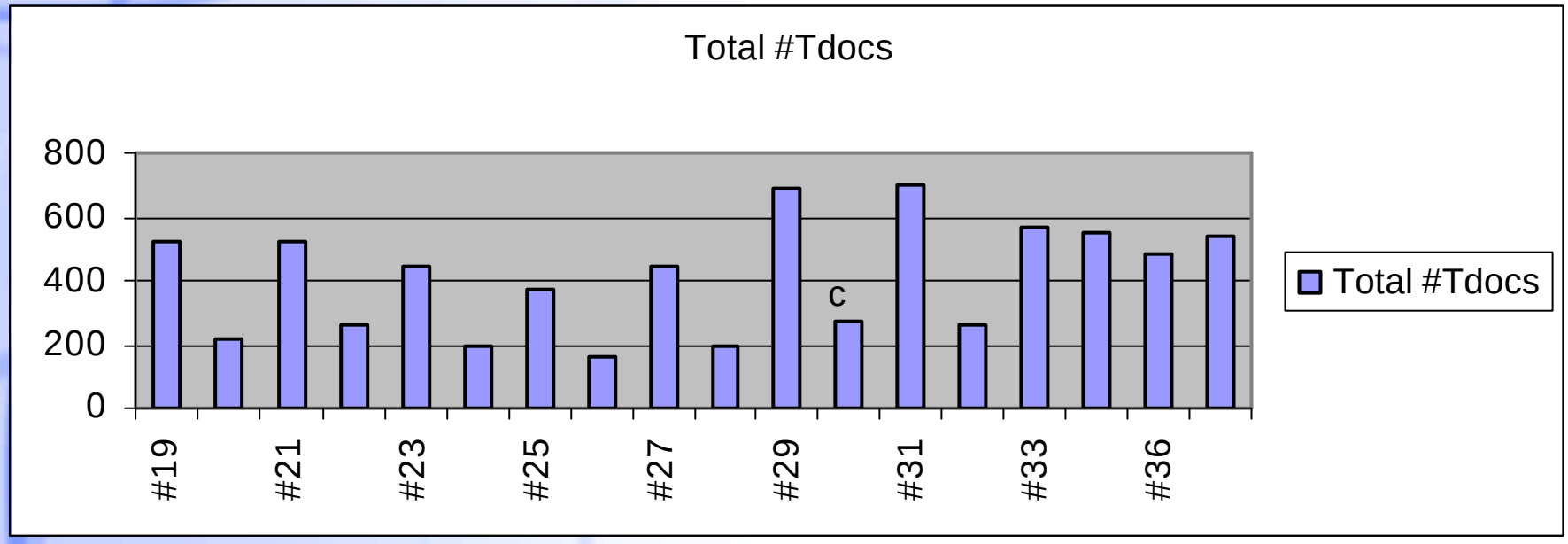
Meetings held since last RAN Plenary

- **RAN WG2 #37 in August 03, Budapest, Hungary**

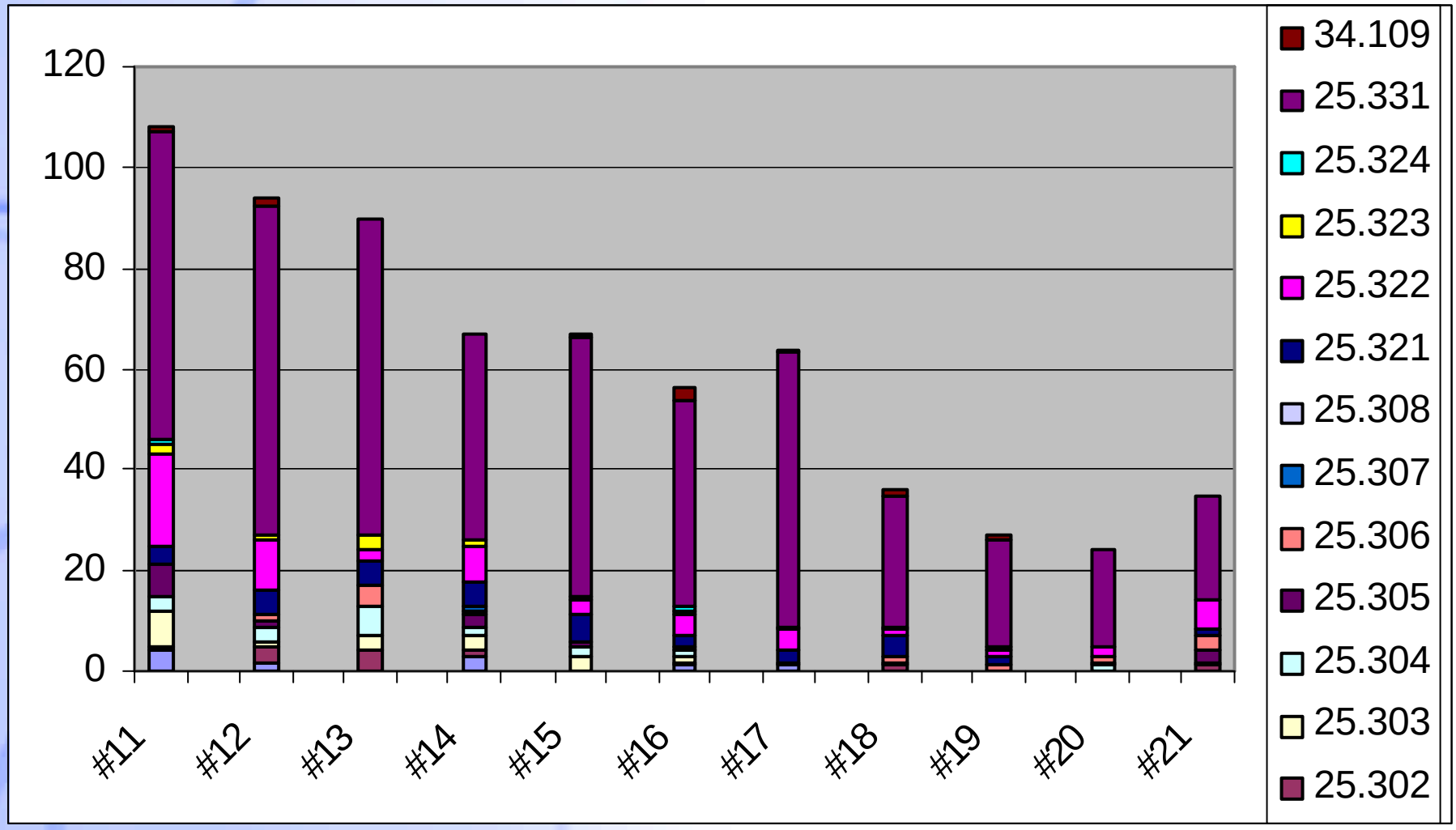
Liaison statements In/Out



Total number of documents per meeting

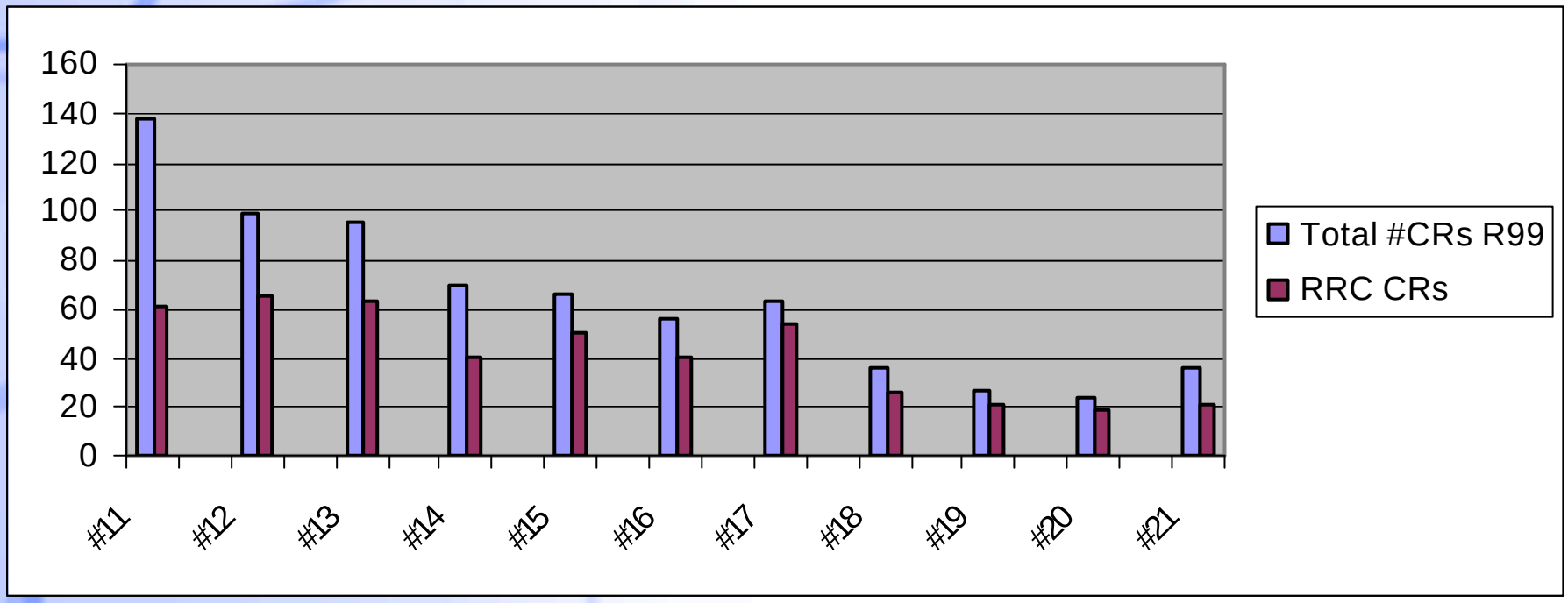


Rel 99 Change Request statistics (1)



NORTEL NETWORKS

Rel 99 Change Request statistics (2)



NORTEL NETWORKS

Release 99 activities

RP-030408

Change Requests on R99 specifications

- **Refer to RP-030409 for complete list of RAN WG2 CRs**

PDCP/RLC/MAC/BMC

- **RLC**
  - 6 CR
- **MAC**
  - 1 CR
- **PDCP**
  - No CR
- **BMC**
  - No CR

NORTEL NETWORKS

3GPP

Cell selection/re-selection

- 1 CR

NORTEL NETWORKS

RP-030408

3GPP

RRC

- **Number of CRs is stable**
- **Most CRs are either:**
  - Mostly worded as « UE should » in R99, « UE shall » in R5
  - Even the R99 « shall » that should not impact an educated UE implementation…
- **Request from some companies to split CRs in even smaller units => the number or CRs is stable, but the size of each is smaller and smaller…**

Release independant frequency bands

- **No CR, since RAN4 does not submit UMTS800**

34.109

- No CR

NORTEL NETWORKS

RP-030408

3GPP

25.993 RAB/RB examples

- **some CRs**
- **Recap on how this TR is handled:**
  - It is a release independant TR. Actual release from which a Radio Bearer applies is specified in the text
  - The current TR on which CRs are made is Release 6
  - CRs are handled in RAN WG2 under the Agenda Item of the applicable release

CRs for approval to RAN Plenary

- **List of agreed CRs in RP-030409**

NORTEL NETWORKS

3GPP

CRs that need to be discussed

- **Agreed CR 1998 to 25.331 (and shadows) in RP-030504**
  - Further off-line discussion after agreement, revision from Qualcomm in RP-030506
  - If revision not approved, then RAN has to considere agreed CR 2010 to 25.331 (and shadows)
- **Technically endorsed CR in RP-030478**
  - elimination of the EPC mechanism: 25.322 and 25.331

NORTEL NETWORKS

Release 4 activities

RP-030408

Release 4 CRs

- Number of corrections is low
- Refer to RP-030409 for complete list

NORTEL NETWORKS

Release 5 activities

RP-030408

Release 5 CRs

- **Very few corrections on HSDPA**
  - HSDPA is stable
- **Some corrections**
- **Last R5 TEIs completed on:**
  - GERAN Iu handover
- **Refer to RP-030409 for complete list of CRs**

Technically endorsed R5 CRs

- **Technically endorsed RP-030479**
  - Release 5 “out of service” CR in line with RAN request in view of a potential voting
- **Technically endorsed RP-030502**
  - CR linked with another CR from RAN1 on HSDPA
  - If not approved, then agreed CR in RP-030503 is proposed for approval

HSDPA

- Very few CRs
- HSDPA stable in RAN WG2

NORTEL NETWORKS

RP-030408

3GPP

Small Technical Enhancements and Improvements for Rel-5

- **Handover UTRAN/GERAN Iu mode**
  - Reply received from GERAN
  - Handover CR was agreed

NORTEL NETWORKS

RP-030408

3GPP

Other

- **25.893 is proposed to be closed; content has been migrated in 25.993 in CR 012 (IMS…)**

NORTEL NETWORKS

Release 6 activities

RP-030408

List of release 6 Work Items under RAN WG2

- MBMS
- 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
- MIMO layer 2/3

MBMS

- **Some progress, but little time available**
  - 3 days on release 6 at the next RAN2 meeting
- **Key progress on UE capability**
- **See status report**

NORTEL NETWORKS

3GPP

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

- Split opinions on whether pathloss is beneficial on Iupc.
- Decision is to allow it (to be applied in RAN3 CR on PCAP)
- See status report

NORTEL NETWORKS

RP-030408

3GPP

Radio Access Bearer support enhancement

- Several contributions on IMS support on the radio
- More contributions invited at the next meeting

NORTEL NETWORKS

3GPP

Technical Enhancements and Improvements for Rel-6

- **Some first inputs**
  - IMS contributions
  - Some new TEIs

NORTEL NETWORKS

RP-030408

3GPP

Feasibility Study under RAN WG2

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

NORTEL NETWORKS

RP-030408

3GPP

Enhancements to OTDOA Positioning using advanced blanking methods

- Should it be closed?
- See status report

NORTEL NETWORKS

RP-030408

3GPP

Release 6 Items under other WGs

- **DS-CDMA Introduction in the 800 MHz Band (RAN WG4)**
  - RRC CRs were available, but withdrawn since RAN4 does not submit its own CRS
- **Uplink Enhancements for Dedicated Transport Channels (RAN WG1)**
  - Still no information from RAN WG1!
  - One proposal on Node-B DCH set-up
- **Viable deployment of UTRA in additional and diverse spectrum arrangements (RAN WG4)**
  - Principle on how to bar cells agreed. Will be captured in RAN WG4 TR.

NORTEL NETWORKS

Conclusions

RP-030408

Chairman's concluding remarks

- **R99 is still an important part of RAN2 activity**
- **Resolving R99 problems takes a lot of time to find acceptable corrections least (or not) affecting current UE implementations**
- **HSDPA stable, few CRs**
- **R5 TEIs completed as planned.**
- **Need to increase MBMS activity, 3 days on Rel 6 at the next meeting.**
- **RAN WG2 moving towards 6 meetings a year in 2004**
  - 4 plenary, 2 preparatory meetings.
- **Future work should be mainly on:**
  - R99 corrections (still), IMS support, MBMS, Release 6 TEIs

Release 99 changes decrease, quality increases,

but corrections more and more time consuming

Please sustain efforts and keep experts active in RAN WG2