NORTEL NETWORKS



Status report of RAN WG2 to RAN #20

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Main activities since last RAN Plenary

Release 99 corrections

— Occupied 3 days of last meeting, number of CRs is stable.

Release 4 corrections

– Very few

• Release 5

- Few HSDPA corrections
- Completion of last TEIs

Release 6

- Joint meeting with RAN3 on MBMS
- RAN2 and RAN3 progressing now in parallel, well synchronised

• Other

Joint meeting with RAN1 on MBMS and some R99 corrections

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RAN WG2 statistics



Meetings held since last RAN Plenary

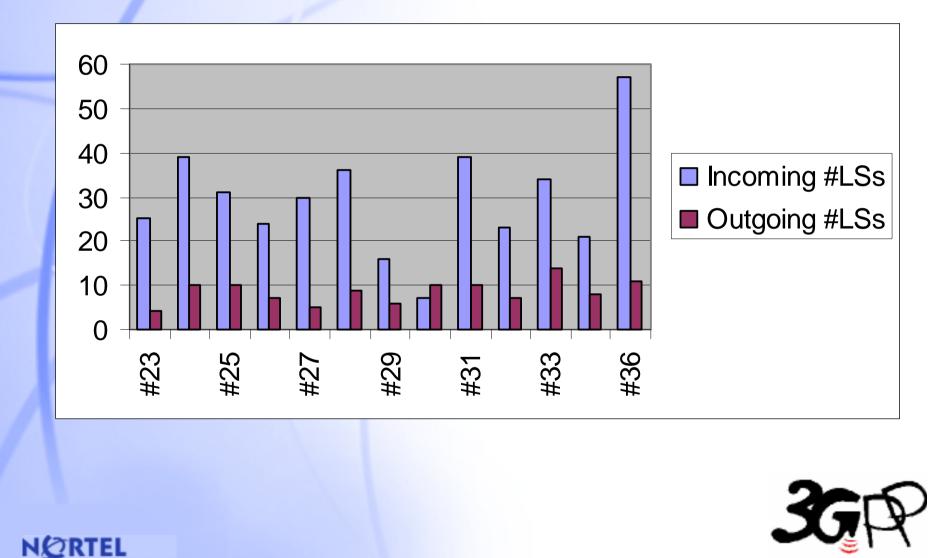
- Joint RAN2/SA2/CN1 ad-hoc on NAS/AS interactions (mainly paging and loss of coverage handling)
- Joint RAN2/RAN3 ad-hoc and RAN2 ad-hoc on MBMS in May 03, FR
- RAN WG2 #36 in May 03, FR
- Joint meeting with RAN1 on MBMS and R99 corrections



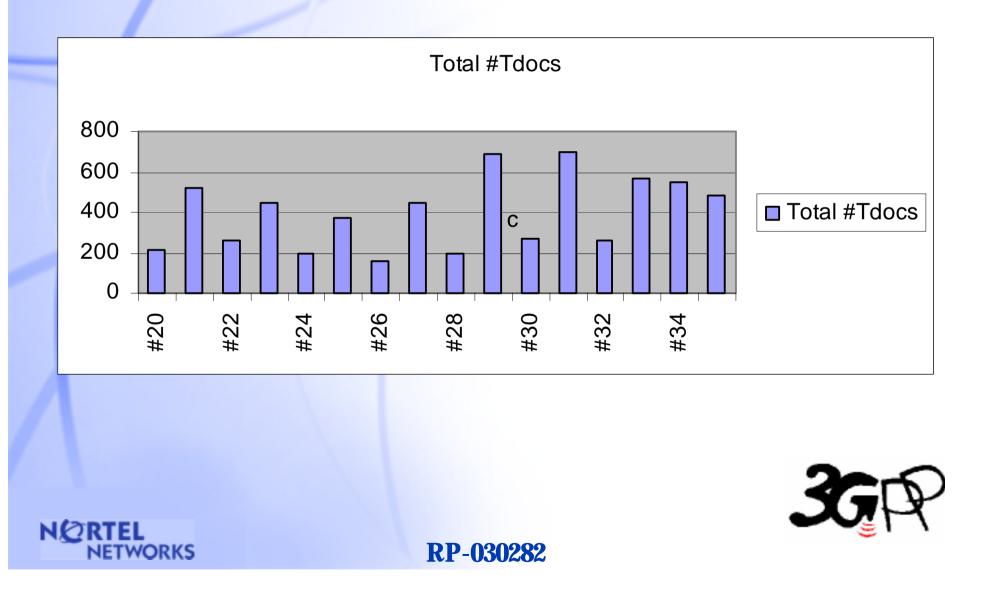


Liaison statements In/Out

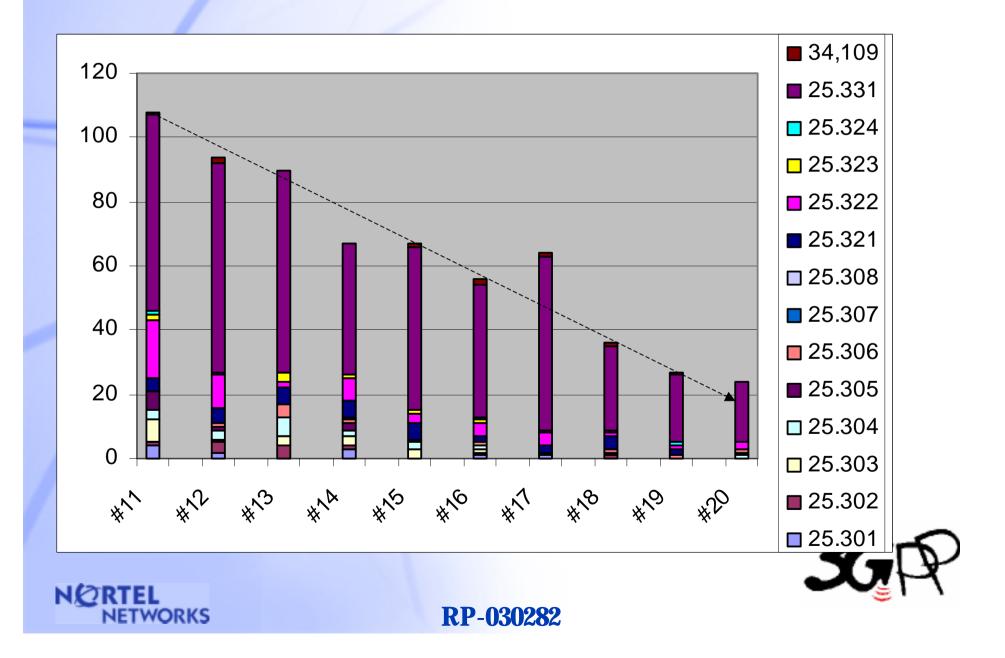
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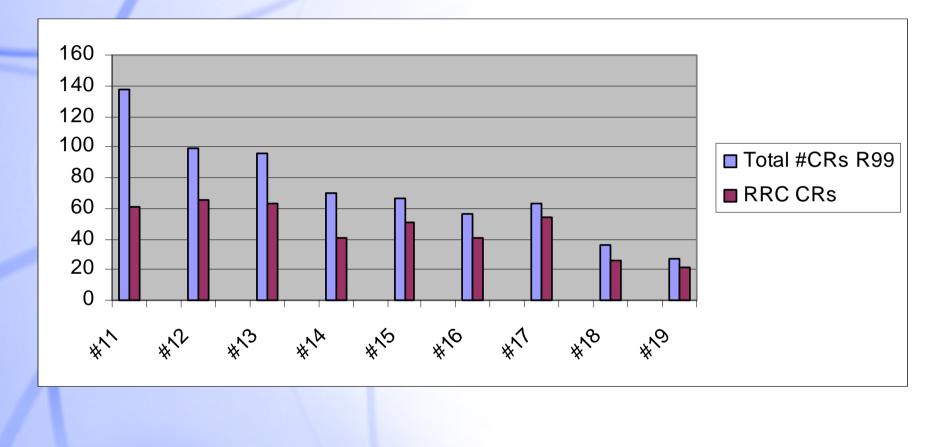
Total number of documents per meeting



Rel 99 Change Request statistics (1)



Rel 99 Change Request statistics (2)







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Release 99 activities



Change Requests on R99 specifications

• Refer to RP-0300283 for complete list of RAN WG2 CRs





PDCP/RLC/MAC/BMC

- RLC
 2 CR
 MAC
 No CR
 PDCP
 No CR
- BMC
 - No CR





Cell selection/re-selection

• 1 CR



3GP

RRC

- Number of CRs decreases slightly
- Most CRs are either:
 - Mostly worded as « UE should » in R99, « UE shall » in R4
 - Even the R99 « shall » that should not impact an educated UE implementation...
- Some difficult CRs took a long time in meeting, and more may be needed





Release independant frequency bands

• 1 CR, linked to 25.101





34.109

• No CR





25.993 RAB/RB examples

• 6 CRs

• Recap on how this TR is handled:

- It is a release independent 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
- It was requested that in RAN Plenary, all CRs are under Release 6 on the RAN Agenda Item





CRs for approval to RAN Plenary

• List of agreed CRs in RP-030283





CRs in RP-030306

• Ciphering Mode info IE in 2G-3G Handover

- CR was agreed by e-mail

- revision by E///, Nokia in RP-030349





CRs in RP-030307

security procedures in case of SRNS Relocation

- CR was dicussed at length in RAN WG2
 - CR was completed by e-mail, and agreed
 - Final version produced by at least E///, Motorola, Nortel
- However due to some company and experts holidays, this needs to be confirmed.

- Small revision by E///, Motorola in RP-030350





CRs in RP-030296

stopping RLC entities at SRNS relocation

- CR was dicussed in RAN WG2
 - CR was sent by e-mail
 - However due to some company and experts holidays, and lack of commenting, this needs to be confirmed.





CRs are in RP-030305

• Linked to 25.101





And last but not least

- Long discussions, started in joint RAN2/SA2/CN1 on paging. In short (for a long story):
 - UE can go to Idle while Nw still sees the UE as PMM/RRC connected
 - UE RRC connected losing coverage does search for another PLMN
 - UE should emergency camp in case of lost coverage of last PLMN in particuliar in home country, but is RRC connected from home Nw viewpoint...

• Several CRs technically endorsed and presented to RAN Plenary

- RP-030284: allows a new value to T317 allowing to alleviate UE desynchronisation with network
- And 3 alternate CRs, fixing the problems linked to loss of coverage of RRC connection, with variants:
 - RP-030286, UE maintains RRC connection while emergency camping, best technically but more impact on UE
 - RP-030285, UE releases RRC connection while emergency camping, less impact on UE but more impact on NW load
 - RAU on return to last PLMN; operators asking control of this. CN Plenary should be consulted. Also question on Timer value to start PLMN search.

- RP-030287, combination of both for R99/R4, and best technic

NORTEL for R5

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Release 4 activities



Release 4 CRs

- Number of corrections is low
- Refer to RP-030283 for complete list
- Category C CR on "inter-RAT handover info".





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Release 5 activities



Release 5 CRs

- Very few corrections on HSDPA
 - HSDPA is stable
- Refer to RP-030283 for complete list of CRs





HSDPA

- Very few CRs
- HSDPA stable in RAN WG2





Small Technical Enhancements and Improvements for Rel-5

Handover UTRAN/GERAN lu mode

- Reply received from GERAN
 - List of comments was sent to GERAN, suggesting to align principles to « source adjusts to target ».
- Draft stage 2 captured in a CR on 25.922
 - Should be incorporated in R5 or R6 version of TR?





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Release 6 activities



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

- Important progress was made on architecture aspects
- Subject attracting more and more contributions
- Joint ad-hoc with RAN WG3
- Discussed with RAN WG1
- Radio stage 3 work has begun
 - Paging, notification
 - UE capability
- Stage 2 presented for approval
- See status report





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

See status report





Technical Enhancements and Improvements for Rel-6

Some first inputs





Feasibility Study under RAN WG2

 Enhancements to OTDOA Positioning using advanced blanking methods





Enhancements to OTDOA Positioning using advanced blanking methods

See status report





Release 6 Items under other WGs



3GP

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Conclusions



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
- Significant increase in MBMS activity, stage 3 has begun, stage 2 proposed for approval
- **R5** TEIs completed as planned.
- **RAN WG2** moving towards 4 meetings a year in 2004
 - + some ad-hocs (hopefully with MCC support).
- **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 RP-030282 NETWORKS

Proposed way forward on OOS

 Approve RP-030284: allows a new value to T317 allowing to alleviate UE de-synchronisation with network

- Take RP-030287 as a basis for the RANN Plenary approval
 - RP-030287 requires a UE to maintain RRC connection on emergency camping, while allowing also to release it in R99/R4.
 - Points to be addressed:
 - Value of timer for PLMN search. Suggestion:
 - Write default value of 30s in R99/R4/R5 RAN specifications
 - Send a LS to CN so that they can discuss whether they want to make it a variable.
 - Note allowing RAU on operator control. Suggestion:
 - Delete the Note from the CR
 - Send a LS to CN so that they can discuss whether they want to make it a variable.
 - Maintain RRC connection is a shall in R5. Suggestion:
 - Discuss...



