



Status report of RAN WG2 to RAN #18

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RAN WG2 Chairman

Main activities since last RAN Plenary

- Release 99 corrections
 - Occupied 2 days of last meeting, but number of CRs is down.
- Release 4 corrections
 - Increasing
- Release 5
 - Completion of HSDPA
 - Completion of some TEIs
- Release 6
 - Progress towards MBMS architecture and better understanding of radio proposals
- Finalisation of firsts version of 25.993 on RAB/RB examples
- Writing of CRs on Early UE handling









RAN WG2 statistics

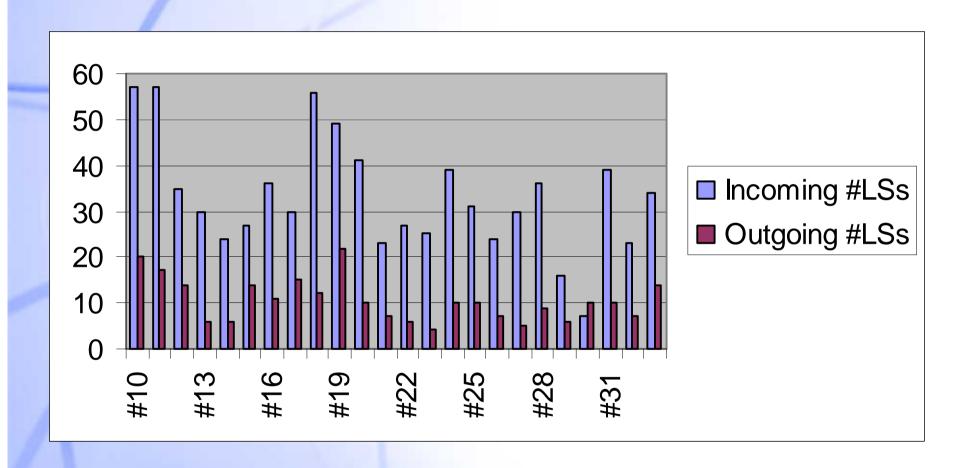
Meetings held since last RAN Plenary

- RAN WG2 #32 in September, X'ian, China
 - Joint RAN2/RAN3 organised on HSDPA and MBMS
- RAN WG2 #33 in November, Sophia Antipolis, France





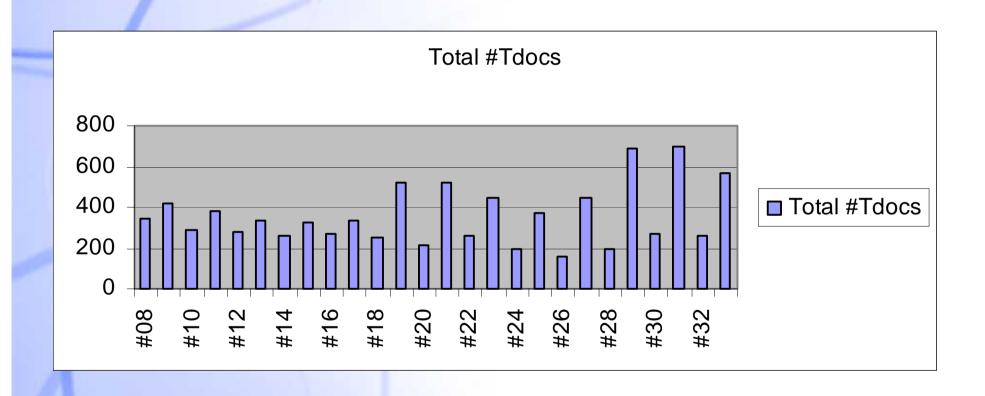
Liaison statements In/Out







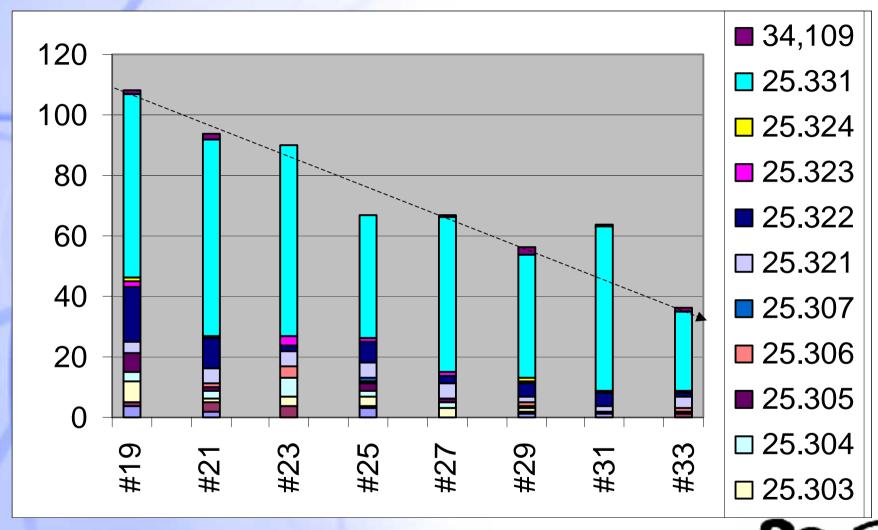
Total number of documents per meeting







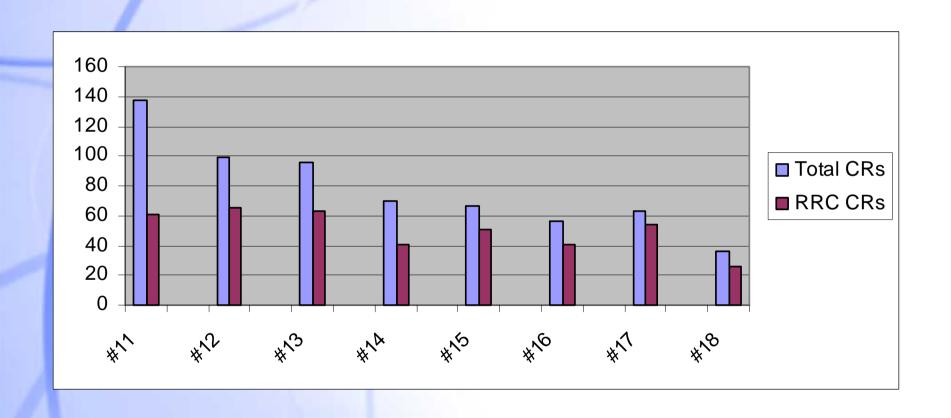
Rel 99 Change Request statistics (1)







Rel 99 Change Request statistics (2)











Release 99 activities

Change Requests on R99 specifications

 Refer to RP-020714 for complete list of RAN WG2 agreed CRs





PDCP/RLC/MAC/BMC

RLC

— 1 CR to remove an ambiguity on ciphering

MAC

- 2 CRs on TFC selection for PRACH (1 for FDD, 1 for TDD)
- 1 CR to remove an ambiguity on ciphering
- 1 CR to support AMR rate control according to discussions with SA4 and RAN4

BMC

1 CR to specify unambiguously bit ordering in BMC messages





Cell selection/re-selection

1 CR to remove a potential ambiguity or order of cell ranking





RRC

- Still many needed corrections, but 50% decrease of CRs compared to last meeting
 - Size of the corrections, and impact on actual implementations or interoperability, is decreasing
 - Smaller CRs
 - Most CRs should not impact an educated UE implementation...
- RP-020727 on Closed loop transmission diversity; 4 CRs technically correct, 3 to be approved depending on RAN1 decision





Release independant frequency bands

Complete





25.993 RAB/RB examples

- First version presented to RAN Plenary for approval.
 Version equivalent in content to current 34.108
 - RP-020814
- Proposed agreed new examples in RP-020XXX (R2-023254)
- Discussion in RAN WG2 about potential migration of certain RBs from 34.108 into 25.993, in order to decrease load of tests
 - Discussion in RAN2 about usefulness.
 - LS sent to RAN plenary, with candidate list





Early UE handling

- Technically correct CRs were written for the the following features:
 - Indication on IMEISV
 - In RRC
 - On Iu
 - Indication of UE Specific Behaviour info
 - Few bits in early messages
 - More bits potentially in less size critical messages
 - In lu container, to cover relocation and 2G/3G handover cases
- This is a R5 Work Item
 - no TR created





Company CRs submitted to Plenary

RP-020XXX

 on Integrity Protection: issue presented at the end of the last RAN2 meeting, CR presented based on results of e-mail discussions

RP-020XXX

 MAC specification on ciphering discovered leading to many implementations not in line with SA3 requirements, and creating potential security breach. CR proposed to align with SA3.

Revision of CR 1714-15-16 on RRC in RP-020722

- Bit ordering of CM2 and CM3 IEs in RRC
- Others?









Release 4 activities

Release 4 CRs TBD

- Number of corrections increases
 - 1 CR on 25.306, 10 CRs on 25.331
- Refer to RP-020714 for complete list









Release 5 activities

Release 5 CRs

- Corrections mainly on HSDPA
- Some CRs incorporating R5 TEIs
- Refer to RP-020714 for complete list





HSDPA

- Conclusions on proposals for enhancements to MAC-hs;
 Most enhancements felt not necessary in R5
- Some corrections
- Alignment with latest RAN WG1 decisions
- HSDPA complete from RAN2 point of view
- LS sent to RAN,RAN1 following request for opinion from RAN1.
 - On PRE/POST scheme





Small Technical Enhancements and Improvements for Rel-5

- NACC for 3G -> 2G HO should have been finalised but no input
- Compression of RRC signalling
 - Principle agreement. Finalisation expected at the next meeting.
- RNC reset
 - Two technically correct CRs in RP-020738, one to be approved depending on SA3 decision on level of security for group release
 - Should be CR 1800
- Event 1b retransmission: CR was agreed
- Expansion of CPICH RSCP range: CR was agreed
- Handover UTRAN/GERAN lu mode
 - Need for RAN2 to analyse/discuss the stage 2









Release 6 activities

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





MBMS

- Some agreements on the stage 2, captured in a revision of the TS.
- Good discussions, some convergence on UTRAN architecture; better understanding of radio proposals
- Some of the work was done in joint meeting with RAN WG3
- LS sent to RAN1 with a list of feature to study; LSs sent/received to/from SA2.
- Time was missing at the last meeting; many contributions on MBMS, RAN2/RAN3 ad-hoc planned 15-16th Jan 2003 (probably in London)



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

- Input on the stage 2
- Work also done in RAN3 about PCAP modifications
- Converging towards keeping current architecture split
- Could be finalised at the next meeting, depending on RAN3 progress





Small Technical Enhancements and Improvements for Rel-6

Long list of LSs on subscriber and equipment trace.
 Likely to have joint sessions RAN2/RAN3/SA5 in Feb 03 to understand RAN aspects.





Feasibility Study under RAN WG2

 Enhancements to OTDOA Positioning using advanced blanking methods





Enhancements to OTDOA Positioning using advanced blanking methods

Work now in RAN WG1.





Release 6 Items under other WGs

No activity









Conclusions

Chairman's concluding remarks

- R99 is still an important part of RAN2 activity, but size and complexity of CRs is decreasing
- Resolving R99 problems takes time but corrections least (or not) affecting UEs are often found
- HSDPA complete. All proposals for enhancement were closed
- Significant increase in MBMS activity
- Some small R5 TEIs completed as planned, some (last?) to be completed at the next meeting.
- RAN WG2 moving towards 6 meetings a year
 - Some ad-hoc may be needed depending on workload
- Future work should be mainly on:

NETWORKS

R99 corrections (still), IMS support, MBMS, Release 6 TEIs

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

Please sustain efforts and keep experts active in RAN WG2

RP-020713