>THIS IS **THE WAY**

Status report of RAN WG2 to RAN #25

Denis Fauconnier

RAN WG2 Chairman

>THIS IS N**⊘**RTEL

Main activities since last RAN Plenary

> Release 99 corrections
- Occupied 1 day of last Quarter only!!!

> Release 4 corrections
- Very minor

> Release 5
- Biggest part of the correction activities

> Release 6
- MBMS
- HSUPA
- IMS
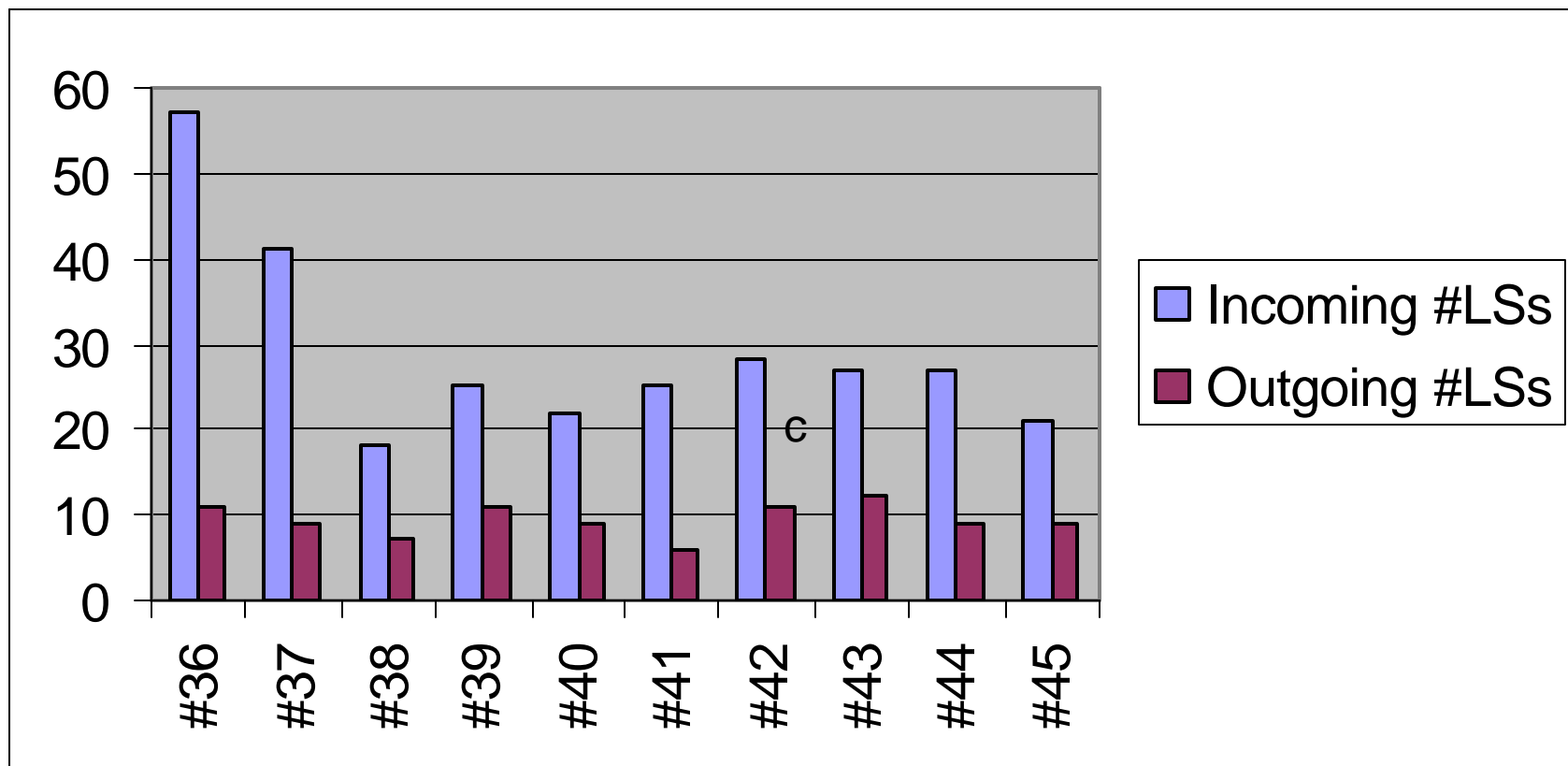- UTRAN sharing

Meetings held since last RAN Plenary

> Two RAN2 meetings
  - Each time at least 3 days parallel sessions on MBMS and HSUPA
  - 1 day joint meeting with RAN1 on HSUPA in November

> On HSUPA, 6 conference calls prior to the November meeting, 3 conference calls after the November meeting
  - Wide involvement of RAN2 but also RAN1 experts. Showed very useful to review implementation of past agreements.

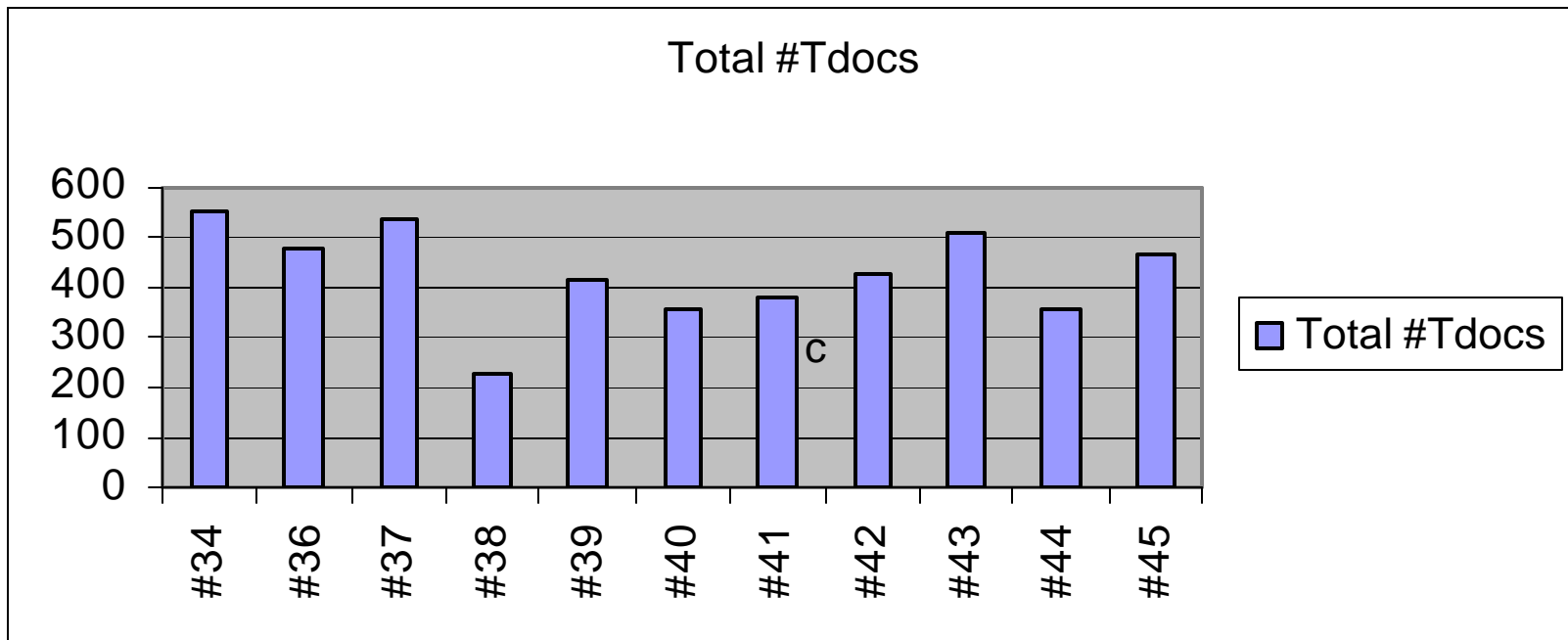> Many e-mail reflector activities to progress MBMS and HSUPA
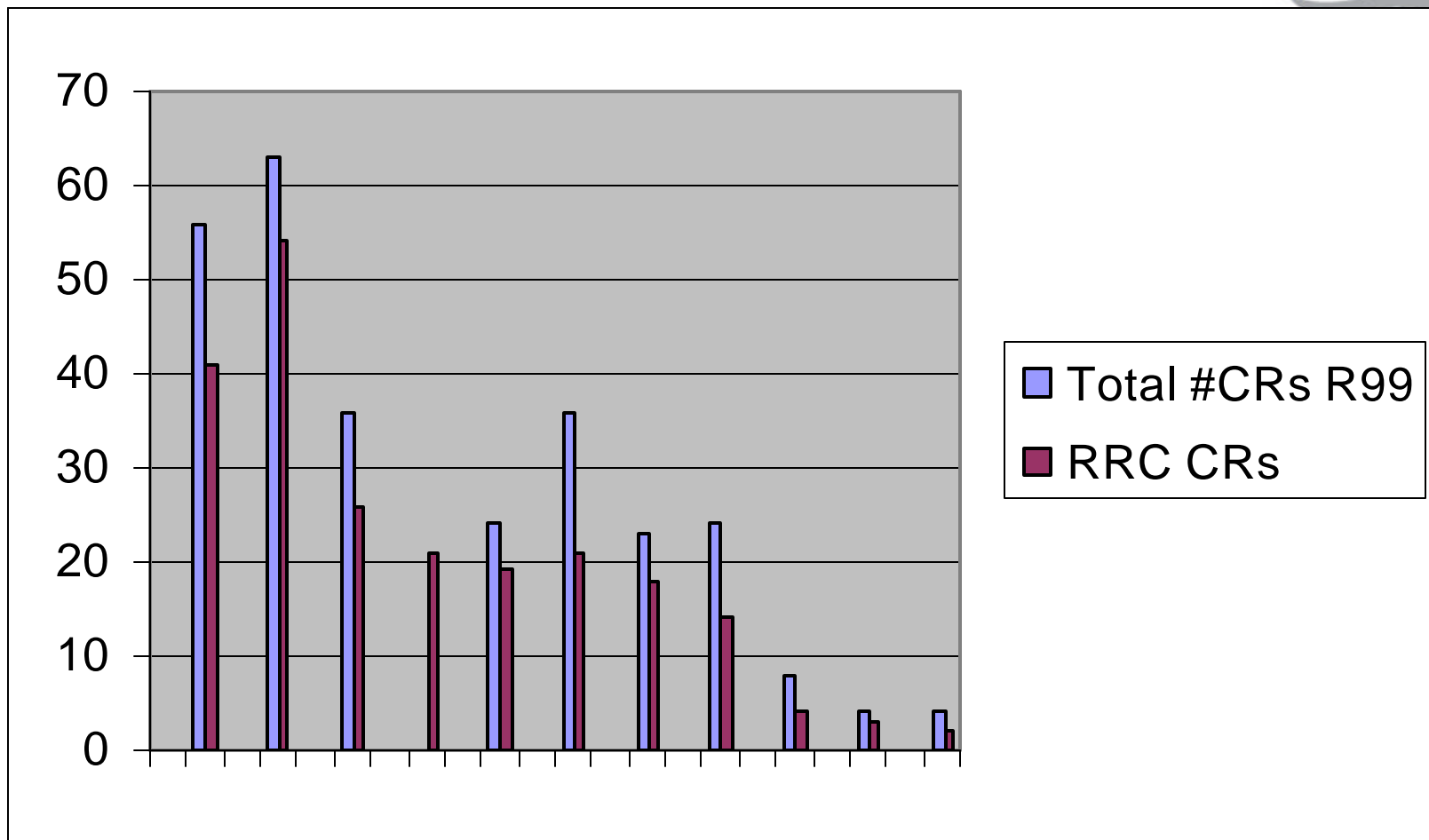
> Intense activities!!!

Liaison statements In/Out

Number of inputs per meeting

Release 99 activities

Rel 99 Change Request statistics

RRC CRs on R99 specifications

> Refer to RP-040525 for complete list of RAN WG2 CRs
- Set of CRs to correct SMS CB optional functionality
- One RRC CR to refer to the correct ITU version of ASN.1
  - In fact aligns on what is currently used on the Iu interface container
  - Does not affect implementations
- 3 RABs/RBs examples added in 25.993

Other

> Agreement to remove the use of TGPL2 as recommended by RAN WG4

- Received late => not finished during the Nov meeting
- Initially, a note to be added was agreed for R99, but it was revisited.
  - Which release and how to implement it in the specs (clean removal vs note) is still debated
  - Ericsson/Nokia propose to RAN Plenary a list of company CRs from R99 onwards, on RAN1, RAN2, RAN3 and RAN4 specifications, with a complete removal

Release 4 activities

Release 4 CRs

> Refer to RP-040525 for complete list of RAN WG2 CRs
> - 2 RRC CRs
>   - 1 CR to fix a problem introduced wrongly when editing ASN.1 in Sept 04
>   - 1 CR on LCR TDD
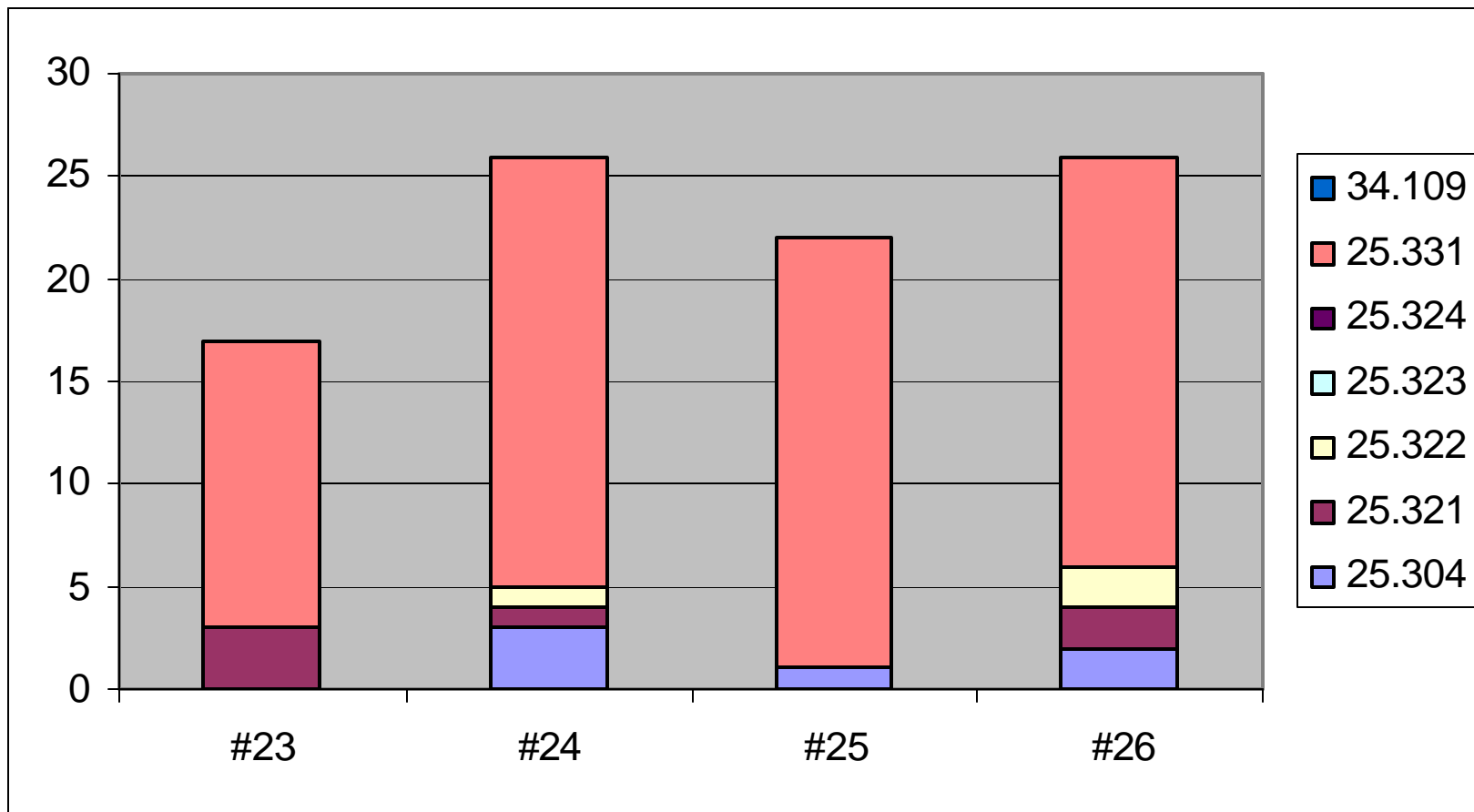
Release 5 activities

Release 5 CRs

> Refer to RP-040525 for complete list of RAN WG2 CRs

Release 5 CR statistics

Release 5 CRs

> HSDPA corrections
- Some of it being the removal of some features felt not useful

> Optimisations
- Correction of some R99 functions not corrected in R99 specifications
  - Chair note: I expect that this should not continue in R5 !!

> Some Rel-5 clean-up

> One addition of feature already discussed in RAN #24
- was recommended by RAN WG4
- seperate cell selection and re-reselection parameters for X_PCH and CELL_FACH
- In RP-040526

> Several revisions (was agreed in meeting, then revised) of company submitted CRs in RP-040520
- Source is RIM

other

> Some other cell re-selection enhancements proposed
> - E.g; HCS rules in High-mobility and Penalty Timer
> - To be concluded for March 05
> - Important area for operators based on field experience

Release 6 activities

List of Work Items under RAN WG2

> MBMS

> FDD Enhanced Uplink

> Radio access bearer support enhancement

> MIMO layer 2/3

> Enhancement of the support of network sharing in the UTRAN

MBMS

> Very significant progress:
  - Two RAN2 meetings spent at least 3 full days each meeting on MBMS
  - Very big activitiy in between meetings, a lot of e-mail discussions
  - Important commitment of resources from some companies, and attendance from all companies
  - Several stage 2 discussions and modifications
  - Stage 3 CRs provided to RAN Plenary for approval
    - A few subjects will be completed by March 05
  - This is a very significant milestone
  - Thank you to everyone

> See status report

FDD Enhanced Uplink (1)

> Very significant progress:
- Two RAN2 meetings spent at least 3 full days on E-DCH each time
- Very big activitiy in between meetings
  - 9 conference calls in total
  - One day joint meeting with RAN WG1
- Important commitment of resources from most companies
  - Conf calls and e-mail involved RAN1 and RAN2 experts in one joint team effort
- Work has been first focusing on progress of the Stage 2, and capturing of Stage 2 decisions in Stage 3
- Stage 3 CRs provided to RAN Plenary for approval
  - A few subjects will be completed by March 05, mainly finalisation of:
    - E-TFC selection/Scheduler and associated signalling
    - UE capability (with RAN WG1)
    - Mobility optimisations, if needed
- This is a very significant milestone
- Thank you to everyone

FDD Enhanced Uplink (2)

> 4 CRs presented to RAN Plenary on stage 2
  - CR **001** agreed in RAN WG2
  - CR **003** agreed in RAN WG2, as a delta to CR 001
  - CRs 002 and 004, both technically endorsed, as a delta to CR 001
    - CR 004 reflects the decision the way it was understood by (some) companies in the joint RAN1/RAN2 meeting. However, it was not the understanding of all companies, and when the subject was re-opened…
      - CR **002** seemed finally the CR on which consensus should be possible
        - RAN Plenary to decide

> See status report

Radio access bearer support enhancement

> Good progress in October on ROHC parametrisation, CRs were ready for review in Nov 04

- However, Ericsson came with a document questioning the vision of the ROHC RFC by RAN WG2
- Discussion needed in RAN Plenary
  - See next slide

> See status report

Discussion about ROHC for IMS

> Recap from Chairman

- RAN WG2 decided to make ROHC mandatory in Release 6 for IMS
- ROHC performance essential for capacity/voice quality
- ROHC has never been tested in 3GPP
    - In Release 4, it was answered that this is an IETF issue
- ROHC used only in WB-AMR simulations in SA4
- RAN WG2 decided to take the ROHC RFC, and to make the key parameters operator controlled in RRC
- At the last meeting, Ericsson brought a paper stating that the state machine described in ROHC RFC was only implementation guidelines, and should not constrain an implementation

> Question to RAN Plenary

- What the level of control operators need on ROHC behaviour/performance?
- Should 3GPP specify ROHC implementation? Should 3GPP test ROHC and ROHC performance?

Enhancement of the support of network sharing in the UTRAN

> Some contributions
- Many discussions, excellent progress
- However some inconsistencies on the current specifications were discovered
  - LS was sent to CN1, and reply was received
  - One CR to correct it was written, but one company asked that this is postponed until CN1/GERAN confirm RAN2 understanding
  - Therefore another LS was sent to CN, and some time may be spent this week on it to resolve issues
- As a consequence:
  - CRs on UTRAN sharing have been agreed, but part relevant to PLMN selection has been on purpose left open, leaving time for resolution of above mentioned issue
  - Agreed CRs consistent with RAN WG3 CRs
- See status report

MIMO layer 2/3

> No input

Technical Enhancements and Improvements for Rel-6

> Many contributions not treated by lack of time
  - Agreement in RAN WG2 that TEI6 is maintained open at least until March 05

Feasibility Study under RAN WG2

> Inclusion of Uplink TDOA UE positioning method in the UTRAN specifications

Inclusion of Uplink TDOA UE positioning method in the UTRAN specifications

> Some discussions in October on a draft CR on the stage 2 25.305

Release 6 Items under other WGs

> **Optimisation of downlink channelisation code utilisation for FDD**
>
> - Draft CRs were made available in RAN WG2 but not treated due to lack of time
> - LS received from RAN WG1
>   - Potential misunderstanding on what was requested
> - RAN2 CRs should be reviewed for March 05

> RAB Support enhancement: HS-DPCCH ACK/NACK enhancement
>
> - One CR agreed

Other

> LS received from GERAN on PS Handover work
> - RAN was not involved so far, and it seems there are UTRAN impacts!!
> - Companies invited to liaise internally, for a discussion in RAN2 in Jan 05

Future meetings

2005	WG2#45bis	10-14 Jan	Sophia-Antipolis	France	ETSI
	WG2#46	14-18 Feb	Scottsdale	USA	
	RAN#27	09-11 Mar	Tokyo	Japan	
	WG2#46bis	04-08 April	Beijing	China	Huawei
	WG2#47	09-13 May	Greece (TBC)	EU	
	RAN#28	01-03 June	Quebec	Canada	
	WG2#48	29 Aug – 02 Sep	London	EU	
	RAN#29	21-23 Sep	Tallinn	EU	
	WG2#49	07-11 Nov	Asia	Korea	
	RAN#30	30 Nov – 02 Dec	EU	EU	

RAN2 Terms of reference

> Proposal to add the responsibility for the testing requirements

- No comment received on this proposal in RAN WG2

> + some minor corrections needed

Conclusions

Chairman's concluding remarks

> Very few R99 corrections, and none impacting Early UEs

> HSDPA corrections

> Very significant MBMS progress
  - Stage 2 and Stage 3 CRs presented for approval to RAN Plenary

> Very significant HSUPA progress
  - Stage 2 and Stage 3 CRs presented for approval to RAN Plenary
  - Plan for next 2 meetings already clear

> 2 meetings planned for 1Q05 and 2 meetings planned for 2Q05

> IMS (VoIP) optimisations slipped and now targeted at March 05

> Future work should be mainly on MBMS, HSUPA, IMS support, TEI6

Release 99 stable, Release 5 stabilising

MBMS and HSUPA have been making key progress

Meetings are very busy, and in-between meetings also; companies have been very active and quarter was very demanding to all

Please sustain efforts and keep experts active in RAN WG2