



Status report of RAN WG2 to RAN #20

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RP-030282

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





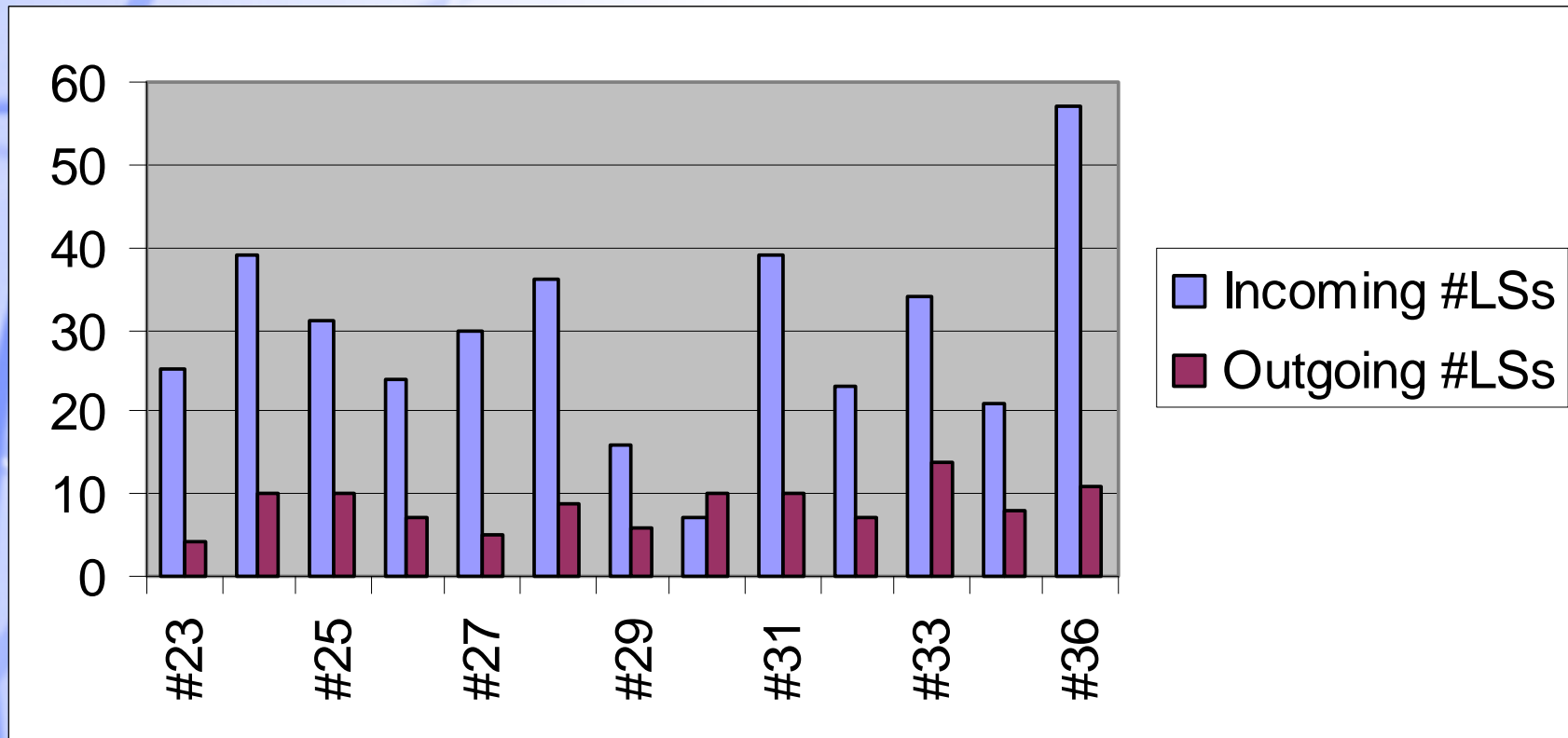
RAN WG2 statistics

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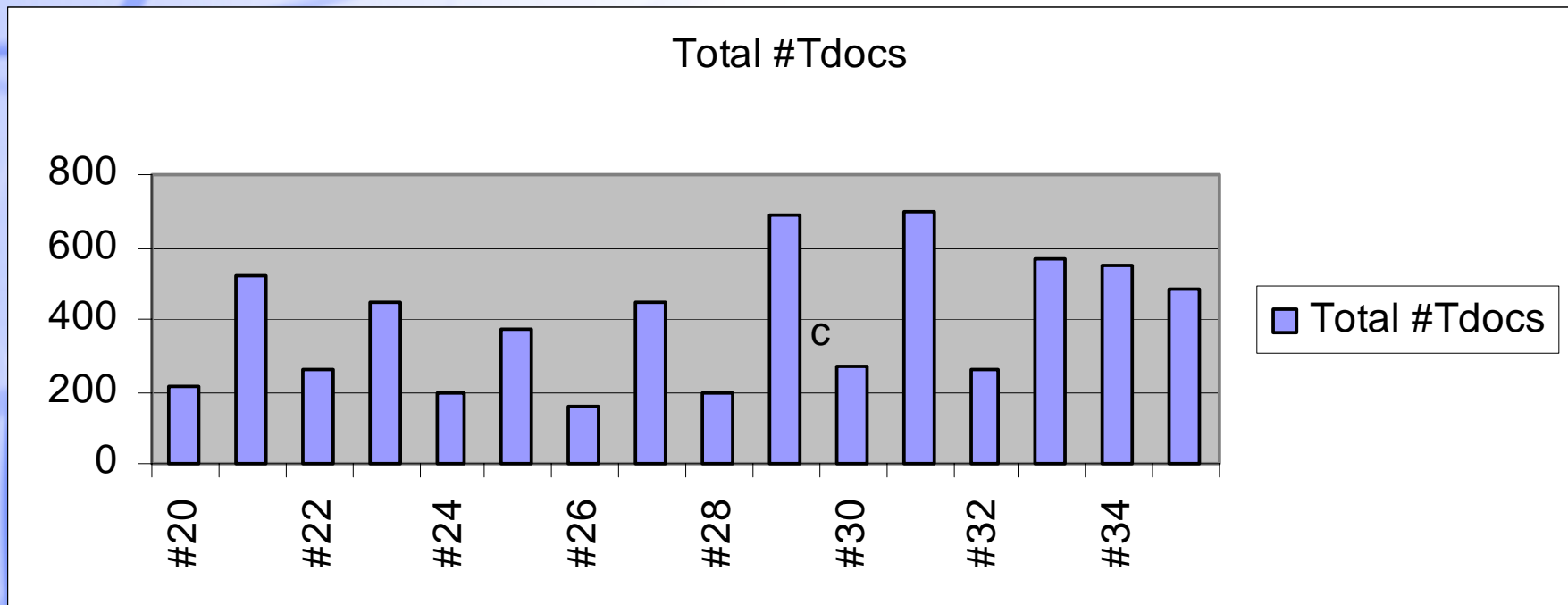
Meetings held since last RAN Plenary

- **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**

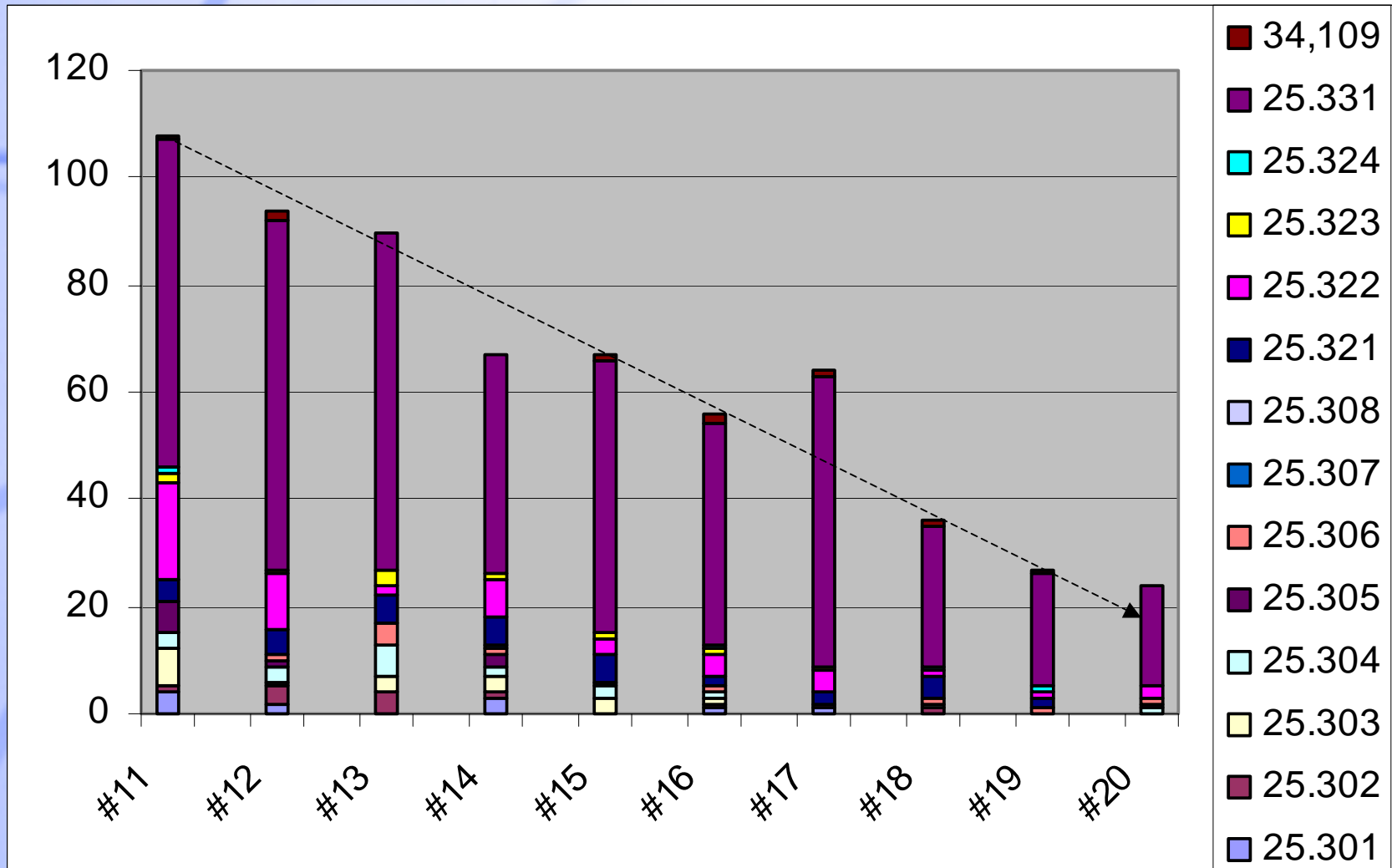
Liaison statements In/Out



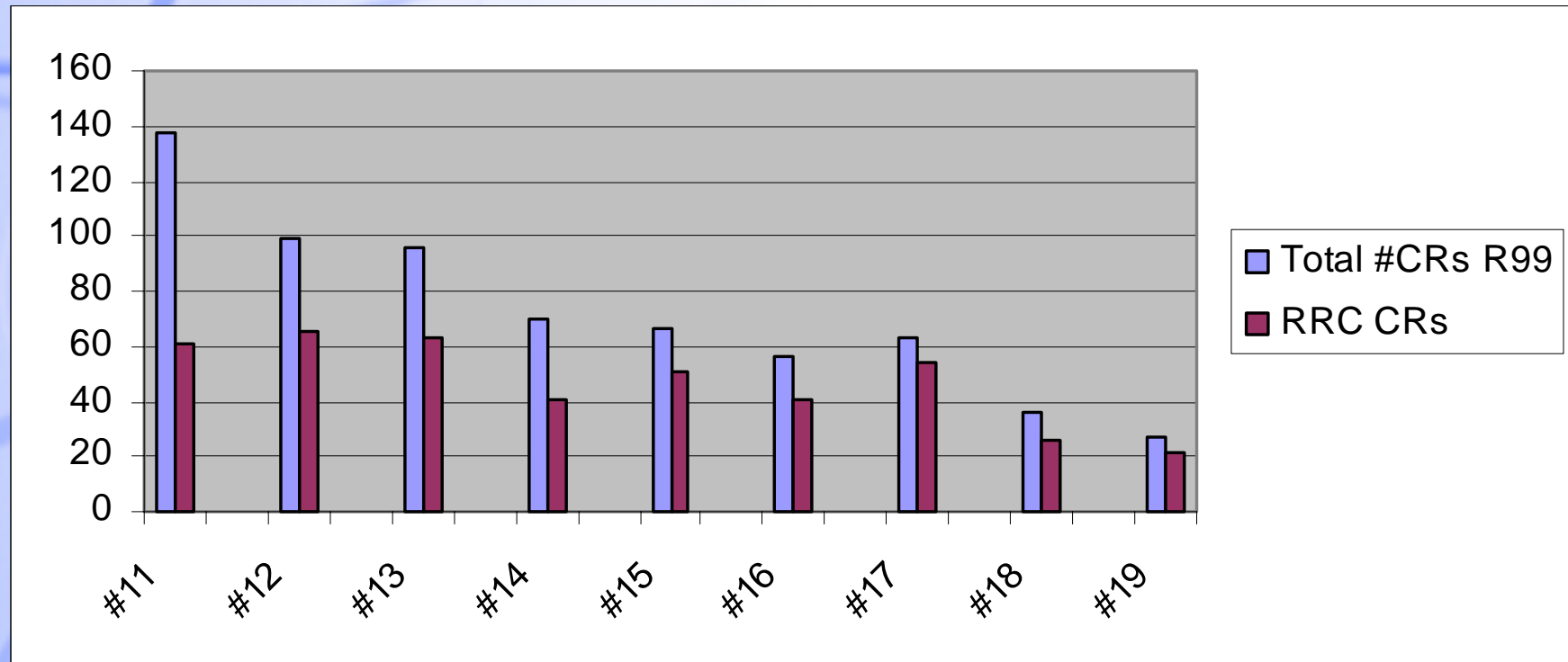
Total number of documents per meeting



Rel 99 Change Request statistics (1)



Rel 99 Change Request statistics (2)





Release 99 activities

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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



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

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.

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 particular 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 de-synchronisation with network
 - And 3 **alternate** CRs, fixing the problems linked to loss of coverage of RRC connection, with variants:
 - RP-030285, UE maintains RRC connection while emergency camping, best technically but more impact on UE
 - RP-030286, 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 technical solution for R5



Release 4 activities

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Release 4 CRs

- **Number of corrections is low**
- **Refer to RP-030283 for complete list**





Release 5 activities

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Release 5 CRs

- **Very few corrections on HSDPA**
 - HSDPA is stable
- **R5 TEIs completed on:**
 - Reducing the size of the "Inter RAT Handover Info" message in GERAN cell
- **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 Iu 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?



Release 6 activities

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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





Conclusions

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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

