



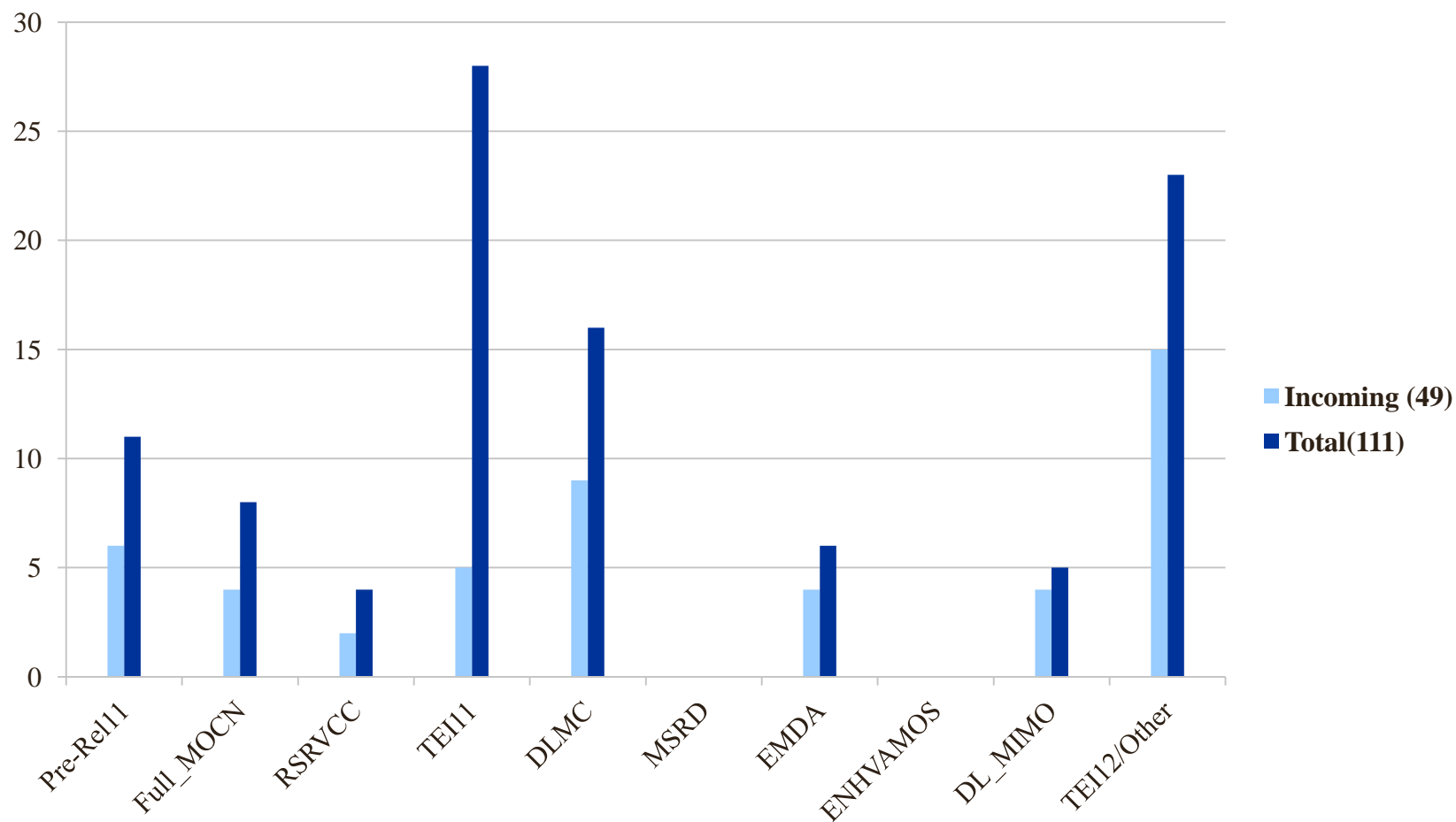
3GPP TSG GERAN WG2#60

Chairlady's Summary (GP-131128)

Chairman: Yang ZHAO (Huawei Technologies)

Secretary: Gert THOMASEN (MCC report in GP-131129)

Incoming Contributions



Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00		LSs	DLMC	New TSC/ UL MIMO	
10:30		Pre-Rel11			
11:00		Coffee Break	Coffee Break	Coffee Break	
		FULL_MOCN	DLMC	Revisions	
12:30		Lunch	Lunch	Lunch	
14:00		RSRVCC	MTC power reduction	Revisions	
15:30		Coffee Break	Coffee Break	Coffee Break	
16:00		TEI11/TEI12 /OTHER	EMDA/ DL MIMO	Revisions	
18:30					

Contents



Pre-Rel11 Corrections



Rel-11 Work



Rel-12 Work

7.2.5.1 Pre Rel-11

➤ Additional Cause code #17 for redirection in MOCN

➤ GERAN#59:

- LS sent from CT1 in 0633: change starts since Rel-11
- Concerns raised on backward compatibility for Rel-10 BSC supporting MOCN
- 0695, 0696, 0734, 0735, 0829, 0830 CRs on 48.008/48.018 postponed: more time needed to check backward compatibility
- LS sent back to CT1/RAN3 in 0801 to highlight the above issue

➤ GERAN#60:

- LS from CT1 in 0951: acknowledgement of backward compatibility problem and suggest to start change since Rel-10
- 1066, 1067 CRs on 48.008 and 1068, 1069, 1070 on 48.018 agreed since Rel-10: to add cause#17 in Reroute Command
- Reply LS in 1062 agreed: to inform CT1 that GERAN has started change of adding cause#17 in Reroute Command since Rel-10

Contents



Pre-Rel11 Corrections.....●



Rel-11 Work.....●



Rel-12 Work.....●

7.2.5.2.1 FULL_MOCN

➤ 3G Neighbor Cells reporting

➤ GERAN#59:

- 0703 addressed the issue that SI23 does not provide 3G Neighbor cell info and thus no measurement reporting can be sent
 - G2 agreement: The UTRAN information provided in the SI23 message cannot be used for measurement reporting
 - Further clarification is required on how to build up 3G NCL in network sharing case
- 0827 CR 44.018, 0828 CR 44.060 postponed: to report 3G Neighbor cell based on the cell info sent by Measurement Information/Packet Measurement Order

➤ GERAN#60:

- **1011**: update of 0703
- G2 agreement: to change the normative text in order to clearly reflect the requirements on how to construct 3G Neighbor Cell List in FULL_MOCN case
- **1090**, **1092** CRs on **44.018** and **1093** CR on **44.060** postponed: pending on companies review
- **1094** Draft CR on **45.008** for information **noted**: corresponding change on SI23_3G_BA_IND/ SI23_3G_BA_IND_USED, pending on companies review

7.2.5.2.3 RSRVCC(1/2)

➤ Handling of UE E-UTRA Capabilities in CS domain

➤ GERAN#56

- Alt1: 1320 propose to define a short E-UTRA Capabilities
- Alt2: 1301 proposal not to send the capabilities, but instead to inform some supported E-UTRA freq/bands via source BSS to target eNB container
- Alt3: 1326 proposal for the BSS to obtain the information from the SGSN

➤ GERAN#57

- Alt3a: 0179: proposal to update 1326

➤ GERAN#58

- LS from RAN2 in 0417 to limit capabilities to 255 octets (the same issue exists for PS Handover to E-UTRA as of Rel-8)
- 0391: Update of Alt2
- 0400/0477: Impact on call set-up delay and speech quality can be significant

➤ GERAN#59

- 0715: update of 0179
- GP-130740: update of 0400
- G2 agreement: SA2 is in charge of the discussion

7.2.5.2.3 RSRVCC(2/2)

➤ Handling of UE E-UTRA Capabilities in CS domain

➤ GERAN#60

- LS from RAN2 in 1038 and LS from SA2 in 0958 recommend to
 - Disable UE E-UTRA capability delivery from source BSS and define a minimum UE E-UTRA capability in RAN2
 - inform supported E-UTRA freq/bands instead of sending the capabilities (see MFBI discussion)
- 1024: update of 0715
- G2 agreement:
 - not sending E-UTRA capability in CS domain
- 1117 Draft CR on 24.008 Endorsed: to specify that for the MS supporting SRVCC, it shall support the minimum UE E-UTRA capability requirements as defined in 3GPP TS 36.306
- 1119 LS to RAN2/SA2/CT1 agreed: to inform RAN2/SA2/CT1 that the GERAN has decided not to send UE E-UTRA capability for RSRVCC Handover.

7.2.5.2.4 TEI11(1/2)

➤ Correction of E-UTRAN Cell Reselection Parameter

- 1082, 1083, 1084 CRs on 44.060 agreed since Rel-9: frequency index should be 3 bit instead of 5 bit

➤ UE E-UTRA Capability transfer for PS Handover

- LS from RAN2 in 1038 and LS from SA2 in 0958 recommend to
 - Disable UE E-UTRA capability delivery from source BSS and define a minimum UE E-UTRA capability in RAN2
 - inform supported E-UTRA freq/bands instead of sending the capabilities (see MFBI discussion)
- 1024: update of 0715
- G2 agreement:
 - not sending E-UTRA capability for PS domain from Rel-8

7.2.5.2.4 TEI11 (2/2)

➤ UE E-UTRA Capability transfer for PS Handover(Cont')

- 1118 Draft CR for Rel-8 on **24.008 Endorsed**: to specify that for the MS supporting PS HO, it shall support the minimum UE E-UTRA capability requirements as defined in 3GPP TS 36.306
- 1096, 1097, 1098, 1099 CRs on **43.129 Endorsed**: to specify Stage 2 procedures of disabling request of UE E-UTRA capability
- 1100, 1111, 1112, 1113, 1114 CRs on **48.018 agreed**: to specify Stage 3 description of disabling request of UE E-UTRA capability
- 1119 LS to RAN2/SA2/CT1 **agreed**: to inform RAN2/SA2/CT1 that the GERAN has decided not to send UE E-UTRA capability for GERAN->E-UTRAN PS Handover.

Contents



Pre-Rel11 Corrections



Rel-11 Work



Rel-12 Work

7.2.5.3.1 Downlink Multicarrier (1/2)

➤ DLMC working assumption update in 1115

- New WA on TFI extension when the MS supports more than 20 timeslots : agreed in WA73/74
- New WA on SNS increase when the MS supports more than 20 timeslots: agreed in WA77

➤ Solutions discussion

- 1019 Proposal when the MS supports more than 20 timeslots to
 - Extend the TFI into 3 extra bits
 - Increase the Sequence Number Space
 - Use CS-3 as an alternative for PDAN message
- 1095 Discussion on Simulations of increased SNS and PDAN space
 - More investigation required on CS-3 usage for PDAN message

7.2.5.3.1 Downlink Multicarrier (2/2)

➤ Solutions discussion (Cont')

- 1086 CR on 44.060, 1087 CR on 44.004 postponed: pending on decision to use CS-3 for PDAN messages
- 1022 CR on 44.018, 1023 CR on 48.018 **Conditionally agreed**: principle of introducing DLMC is adopted and pending on other CRs to be agreed as a full set
- 0964 Draft CR on 24.008 **Endorsed**: to introduce the UE DLMC capability description, LS will be sent to CT1 when other CRs agreed as a full set

7.2.5.3.3 EMDA

- Minutes in **1017** of GERANEMDA Telco#6 **noted**
- Work Plan in **1018** **noted**
- New traffic model discussion
 - GERAN#59
 - G2 agreement:
 - Solutions shall be evaluated based on the existing traffic model in the TR
 - New traffic model can be considered if necessary but is out of EMDA scope
 - GERAN#60
 - **1016** proposal to
 - Modifications and examples added for loss of login/ordinary messages
 - Examples and clarifications added for lost/blocked messages
 - No introduction of TBF blocking rate and keep loss of messages metric
 - delay release of uplink and downlink TBF should be used in the simulation and timer value is 2s for both uplink and downlink TBF.
 - Performance of legacy mechanism should be decided as the baseline
 - **G2 agreement:** agree all above proposals and TR updated in **1116** as the baseline for future discussion

7.2.5.3.5 Downlink MIMO

- **Meeting Minutes in 0982 of DL MIMO telco#2 noted**
 - WG2 delegates are encouraged to provide more input
- **Work plan in 0987 noted**
- **RLC/MAC aspects**
 - 1103 (update of 0984): proposes to
 - new DL MIMO multislot capability reduction parameter:
 - More investigation needed on how to co-work with DCDL and DLMC
 - TBF establishment: principle agreed in G2
 - TBF operation: principle agreed in G2
 - USF decoding is left for MS implementation as long as it meets the USF blocking rate
 - Multiplexing of legacy MSs: principle agreed in G2
 - MS capability signaling: principle agreed in G2
- **TR in 0986 noted**

7.2.5.3.6 TEI12 (1/3)

➤ MFBI

➤ GERAN#59

- Working assumption made as:
 - no MFBI indication in system information and relies on UE-centric approach for idle mode mobility
 - further investigation of MFBI indication for connected mode

➤ GERAN#60

- LS from RAN2 in 0955 suggest an explicit MFBI capability indication from MS to BSS
- 1029: proposal to have explicit UE MFBI capability indication (also require UE to support monitoring up to 8 frequencies) to BSS and reuse legacy signaling in connected mode, as well as to add clarifications for MS in idle mode
- 1010: proposal have explicit UE MFBI capability indication to BSS and reuse legacy signaling in connected mode

7.2.5.3.6 TEI12 (2/3)

➤ MFBI (Cont')

- G2 agreement for connected mode:
 - WA1: the BSS will send EARFCNs based on the MFBI capability indication from MS
 - WA2: whether the UE is capable of monitoring up to 3 physical frequencies
 - Out of WG2 scope and sent to WG1 for further discussion
 - WA3: the BSS is required to transfer the EARFCN supported by the MS to the target eNB, which message to include this info depends on further feedback from RAN2
- G2 agreement for idle mode:
 - Still no MFBI indication in system information and relies on UE-centric approach
 - Clarifications on MS behaviour for measurements/measurements reporting is needed
- CRs are expected to address the above agreement at next GERAN meeting
- 1120 reply LS to RAN2 **agreed**: reflect the above WA1 and ask RAN2 which message to include the EARFCN supported by the MS based on WA3

7.2.5.3.6 TEI12 (3/3)

➤ Optimized Matching Procedure

➤ GERAN#59

- 0721, 0707 noted
 - Misc concerns raised: more evaluation required (impact on SI23 which is already used for network sharing case, impact on legacy mobiles etc.)
- 0722 CR 44.018 postponed

➤ GERAN#60

- 1015: further performance evaluation on the original proposal
- Further investigation needed, pending on discussion for long DRX

7.2.5.3.7 Other (1/3)

➤ SI2quater capacity extension

- 0949 noted: proposal to create a new SI(SI24) to extend SI2quater as it is foreseen with size limitation and avoid impact on SI23 which is now used for network sharing only
 - No working assumption can be made at this stage as the requirement is case by case

➤ BeiDou Navigation Satellite System (BDS) for LCS

- 1122 WID agreed: proposal to support BDS into GERAN specifications by defining a new GANSS ID and introducing some necessary assistance data information.
- 1048 Work Plan noted: specification work is expected to be complete at GERAN#62
- LS from RAN3 in 1091 noted: work has been completed in RAN3 and related work in GERAN is expected to be done under new agreed WID

7.2.5.3.7 Other (2/3)

➤ MTC power saving

- **0993 noted**: discussion on the necessity of study power reduction for MTC devices
 - Requirements on study MTC device power reduction are confirmed
- **1045 noted**: proposal of long DRX to reduce power consumption for MTC devices
 - More investigation needed: e.g. the impact on mobiles in case of network reconfiguration, performance evaluation between purely power off and long DRX
 - SA2/CT1 groups are foreseen to be involved
- G2 agreement:
 - a new Study Item is needed to kick off the study
- **1108 SID agreed**: aiming at study power reduction for MTC devices for both idle and connected mode

7.2.5.3.7 Other (3/3)

➤ Uplink MU-MIMO

➤ GERAN#59

- 0781 : proposal on a potential data capacity improvement by means of common USFs and orthogonal training sequences noted
 - More investigation needed on the gains
- 0783 : Draft WID on Multiplexing Radio Blocks in the Uplink noted

➤ GERAN#60

- 1000 performance discussion noted
- 1043 Discussion on the scope of the study noted
- 1107 new SID noted: G2 in principle agree to starting the study with the scope pending on G1/plenary conclusion

➤ New TSC

- 1041 Proposal to design New Training sequence codes for GERAN noted
- 1042 new WID noted: G2 in principle agree to starting this subject except that the time plan is FFS

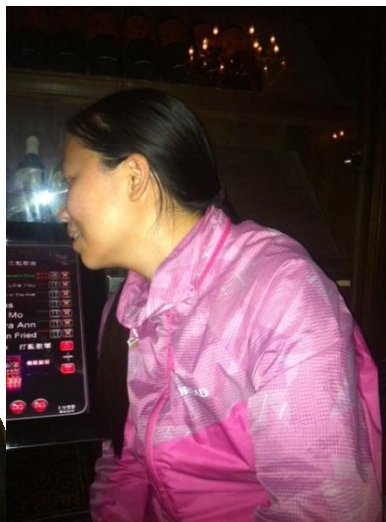
Outgoing LSs

➤ Source GERAN2

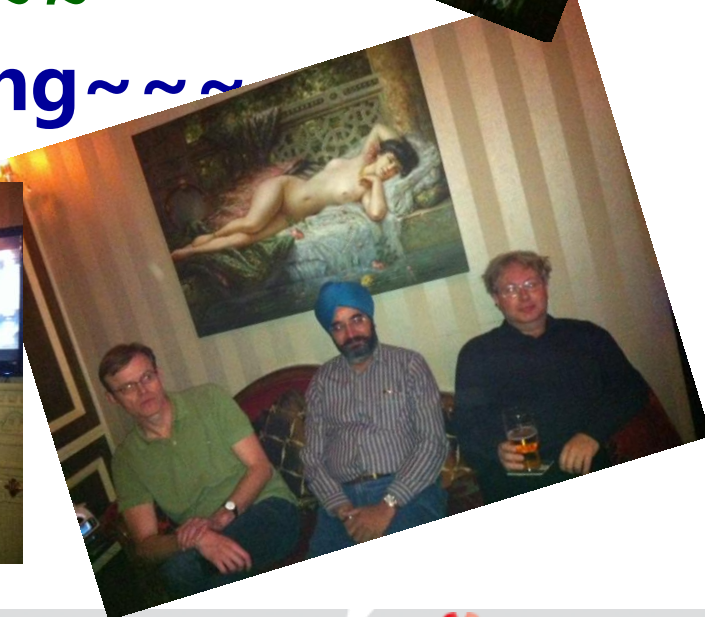
- GP-131062 Reply LS on additional cause causes triggering redirection
- GP-131120 Reply LS on Inter-RAT capability signalling for MFBI
- GP-131119 Reply LS on Provisioning of E-UTRA Radio Capabilities in GERAN

Next Meetings

- GERAN2#61 25 - 27 February 2014, Sophia Antipolis, FR
- GERAN2#62 27 - 29 May 2014, Valencia, ES
- GERAN2#63 26 - 28 Aug 2014, Ljubljana, SI
- GERAN2#64 18 - 20 Nov 2014, San Francisco, US



Good Luck, Julie~~~
Welcome, Han Jing~~~





Thank You