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| 10. SON/MDT Support for NR WI (RAN3-led)WID [NR\_SON\_MDT]: [RP-191594](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_84/Docs/RP-191594.zip) (target: RAN #88-e) [TU: 1 (1)]Capture the MDT related procedures in split RAN architecture into TS38.401.1. Add Management Based MDT PLMN List to the F1-UE CONTEXT SETUP REQUEST message.2. Transmit measurement configuration M2, M5, M6, M7 (DL) to DU from CU-CP.1. Add Management Based MDT PLMN List to the E1-BEARER CONTEXT SETUP REQUEST message.2. Support to transmit measurement configuration M4, M6 and M7(UL) to the CU-UP.1. Add Management Based MDT PLMN List to the Xn-HANDOVER REQUEST message and RETRIEVE UE CONTEXT RESPONSE message.2. Trace Activationa. Add MDT Configuration IE into Trace Activation IE. The Trace Activation IE is already defined in the HANDOVER REQUEST message and RETRIEVE UE CONTEXT RESPONSE message.b. Support M1, M2, M4, M5, M6, M7, M8, M9 1. MDT configuration includes a sequence structure: NR-configuration and E-UTRA configuration, both are optional.2. Add M1, M2, M4, M5, M6, M7, M8, M9 to MDT configuration.3. Remove Management based MDT Allowed IE from the NGAP BLCR (added in last meeting as FFS) |
| 10.1. General*Time plan, skeletons, BLs**BL CRs endorsed; all proposals should be in the form of TPs toward the appropriate BL CR(s)* |
| [R3-201528](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201528.zip) | Addition of SON feature (Huawei) | draftCRr, TS 36.300 v16.1.0, Rel-16, Cat. B |
| [R3-201555](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201555.zip) | BLCR to 38.420: Addition of MDT feature (CMCC) | CR0018r1, TS 38.420 v15.2.0, Rel-16, Cat. B |
| [R3-201556](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201556.zip) | BLCR to 38.420: Addition of SON feature (CMCC) | CR0019r1, TS 38.420 v15.2.0, Rel-16, Cat. B |
| [R3-201557](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201557.zip) | BLCR to 38.470: Addition of SON feature (CMCC) | CR0064r1, TS 38.470 v16.1.0, Rel-16, Cat. B |
| [R3-201558](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201558.zip) | BLCR to 38.460: Addition of SON feature (CMCC) | CR0031r1, TS 38.460 v16.0.0, Rel-16, Cat. B |
| [R3-201566](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201566.zip) | MDT support for EN-DC (Huawei) | CR1747r2, TS 36.413 v16.1.0, Rel-16, Cat. B |
| [R3-201569](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201569.zip) | Addition of RACH Optimization Feature (CMCC, Huawei) | CR0116r2, TS 38.401 v16.1.0, Rel-16, Cat. B |
| [R3-201574](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201574.zip) | MDT support for EN-DC (Huawei, SAMSUNG) | CR1440r3, TS 36.423 v16.1.0, Rel-16, Cat. B |
| [R3-201608](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201608.zip) | Addition of SON features (Huawei) | CR1710r8, TS 36.413 v16.1.0, Rel-16, Cat. B |
| [R3-201609](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201609.zip) | Addition of SON feature (CATT) | CR1373r9, TS 36.423 v16.1.0, Rel-16, Cat. B |
| [R3-201610](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201610.zip) | Addition of SON features (CMCC, Huawei) | draftCRr, TS 38.300 v16.1.0, Rel-16, Cat. B |
| [R3-201611](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201611.zip) | Addition of MDT features (Samsung) | CR0099r4, TS 38.401 v16.1.0, Rel-16, Cat. B |
| [R3-201612](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201612.zip) | Addition of SON features (Huawei) | CR0237r7, TS 38.413 v16.1.0, Rel-16, Cat. B |
| [R3-201613](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201613.zip) | Addition of MDT feature (Huawei) | CR0280r5, TS 38.413 v16.1.0, Rel-16, Cat. B |
| [R3-201614](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201614.zip) | Addition of SON features (Samsung) | CR0221r9, TS 38.423 v16.1.0, Rel-16, Cat. B |
| [R3-201615](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201615.zip) | MDT Configuration support for XnAP (Ericsson) | CR0291r7, TS 38.423 v16.1.0, Rel-16, Cat. B |
| [R3-201616](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201616.zip) | Addition of SON features (Ericsson) | CR0142r9, TS 38.463 v16.1.0, Rel-16, Cat. B |
| [R3-201617](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201617.zip) | Addition of MDT features (ZTE) | CR0477r3, TS 38.463 v16.1.0, Rel-16, Cat. B |
| [R3-201618](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201618.zip) | Addition of SON features (Huawei) | CR0441r9, TS 38.473 v16.1.0, Rel-16, Cat. B |
| [R3-201619](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201619.zip) | Addition of MDT features (Samsung) | CR0492r4, TS 38.473 v16.1.0, Rel-16, Cat. B |
| [R3-202436](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202436.zip) | Updated work plan for SON and MDT WI (China Mobile International Ltd) | Work Plan |
| [R3-201520](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201520.zip) | LS on the status update of the SON support for NR works (3GPP SA5, Intel) | LS inMove to 10.1 |
|  **CB: # 1000\_Email\_SON-MDT\_BLs****- endorse work plan****- Endorse all BL CRs****- check details, revise if needed****- expect discussions only to ensure correctness of BL CRs, no new proposals (in this discussion)**(CMCC)Summary of offline discussion |
| 10.2. Signaling Support for SON*In cooperation with RAN2* |
| 10.2.1. Mobility Robustness Optimization**QUOTA: 7***Both intra- and inter-system*MRO mechanism shall support Rel-15 UEsIntroduce failure indication message and HO report in Xn (message names can be revised offline)mobility information of source gNB should be included in HANDOVER REQUEST messageUL and DL RAN configuration transfer mechanism is used to exchange MRO information between LTE and NR (i.e. in NG and S1)*Unnecessary HO to another system and ping-pong to be discussed in the upcoming meetings**UE RLF report from CU to DU to be continued…* |
| 10.2.1.1. Intra-System and Inter-System Connection FailureIntra-system:- In failure indication over Ng, include the RLF report- HO report procedure over NG and S1 shall be supported- For the connection failure due to intra-system mobility, add the description about how to use the failure indication message and HO report in case of RRC re-establishment and RLF report- For the connection failure due to intra-system mobility, add the description about retrieval of information needed for problem analysis. The description of LTE is the baseline |
| [R3-201515](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201515.zip) | Reply LS on Information Needed for MRO in UE RLF Report (3GPP RAN2, CATT) | LS inMove to 10.2.1.1 |
| [R3-201735](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201735.zip) | (TP for SON BL CR for TS 38.413): Intra-System and Inter-System Connection Failure (Huawei) | other |
| [R3-201736](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201736.zip) | (TP for SON BL CR for TS 38.423): Intra-System and Inter-System Connection Failure (Huawei) | other |
| [R3-201737](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201737.zip) | (TP for SON BL CR for TS 38.300): Intra-System and Inter-System Connection Failure (Huawei) | other |
| [R3-201929](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201929.zip) | Discussion on support of intra-system and inter-system MRO (CATT,CMCC) | discussion |
| [R3-201930](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201930.zip) | [Draft]LS to RAN2 on support of MRO (CATT) | LS out |
| [R3-201931](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201931.zip) | Discussion on tranfer of RAReport and ConnEstFailReport (CATT) | discussion |
| [R3-201932](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201932.zip) | (TP on SON BLCR for 38.413)Addition of RAReport and ConnEstFailReport transfer (CATT) | other |
| [R3-201933](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201933.zip) | (TP on SON BLCR for 38.423)Addition of RAReport and ConnEstFailReport transfer (CATT) | other |
| [R3-202069](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202069.zip) | (TP for SON BL CR for TS 38.423) Intra-System and Inter-System Connection Failure for MRO (Samsung) | other |
| [R3-202070](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202070.zip) | (TP for SON BL CR for TS 38.413) Intra-System and Inter-System Connection Failure for MRO (Samsung) | other |
| [R3-202071](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202071.zip) | (TP for SON BL CR for TS 38.300) Intra-System and Inter-System Connection Failure for MRO (Samsung) | other |
| [R3-202072](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202072.zip) | LS on information needed for MRO in UE RLF Report (Samsung) | LS out |
| [R3-202391](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202391.zip) | TP for [NR\_SON\_MDT] BL CR for TS 38.300) Introduction of RLF report (ZTE) | other |
| [R3-202392](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202392.zip) | Left open issue for intra system and inter system MRO (ZTE) | discussion |
| [R3-202393](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202393.zip) | Re-connected Cell ID for intra system inter RAT MRO (ZTE) | discussion |
| [R3-202435](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202435.zip) | TP to SON BLCR 38.300 on MRO corrections (China Mobile International Ltd) | other |
|  **CB: # 1001\_Email\_SON-MDT\_ConnFail****- This email discussion is expected to produce at least TPs for 38.300, 38.413, and 38.423****- Furthermore, this email discussion may produce an LS to RAN2****- TP for 38.300** **- Merge what is agreeable from 1737, 2071, 2391, and 2435** **- Come up with a concise description of the inter-system RLF report** **- The email discussion rapporteur is to provide the first draft based on the TPs listed above, which is to be revised during the email discussion****- LS** **- Merge what is agreeable from 1735 (Annex 2), 1930, 2072** **- Discuss what information is needed in RLF report** **- The email discussion rapporteur is free to structure the discussion as he/she sees fit, the following is only a suggestion: to list all the information suggested in all the documents above as a separate “issue” and solicit companies’ view on each****- TP for 38.413** **- Merge what is agreeable from 1735, 1932, 2070, and 2393** **- Discuss Failure Indication and Inter-system SON Information Report** **- Discuss FFS in the current BL CR mentioned in the contributions referenced** **- The email discussion rapporteur is free to suggest other issues for discussion, based on the contributions referenced**  **- Come up with an agreeable TP** **- The email discussion rapporteur is to provide the first draft based on the TPs listed above, which is to be revised during the email discussion****- TP for 38.423** **- Merge from 1736, 1933, and 2069** **- Discuss Failure Indication, RLF Report and HO Report** **- The email discussion rapporteur is free to suggest other issues for discussion, based on the contributions referenced**  **- Come up with an agreeable TP** **- The email discussion rapporteur is to provide the first draft based on the TPs listed above, which is to be revised during the email discussion** (Samsung)Summary of offline discussion |
| 10.2.1.2. Inter-System Ping-Pong and Unnecessary HandoverUnnecessary HO from NR to E-UTRAN is supported, E-UTRAN to NG-RAN is not supported in Rel16NG-RAN to E-UTRAN ping-pong (and vice versa) shall be supported, including ng-eNB |
| [R3-201738](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201738.zip) | (TP for SON BL CR for TS 38.300): Inter-System Ping-Pong and Unnecessary Handover (Huawei) | other |
| [R3-201739](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201739.zip) | (TP for SON BL CR for TS 38.423): Inter-System Ping-Pong and Unnecessary Handover (Huawei) | other |
| [R3-201934](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201934.zip) | (TP for SON BL CR for TS 38.413)Correction on inter-system unnecessary HO (CATT) | other |
|  **CB: # 1002\_Email\_SON-MDT\_PingPong****- This email discussion is expected to produce TPs for 38.300, 38.413, and 38.423****- Discuss corrections proposed in 1738, 1739, and 1934****- Come up with agreeable TPs****- Start the discussion based on the TPs referenced above as they are**(CATT)Summary of offline discussion |
| 10.2.1.3. SN Change Failure*Moved to Rel-17* |
| 10.2.1.4. CU-DU Aspects for MROgNB-CU should forward the UE RLF report to the gNB-DU using a dedicated procedure at least in case of the RLF caused by random access problem*further discuss whether the UE RLF report is provided to the gNB-DU in case of beam failure recovery failure.**further discuss whether the new procedure needs to be defined to provide information about the detection of RLF events and the root cause of such events from the gNB-DU to the gNB-CU. To be continued...* |
| [R3-201791](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201791.zip) | Remaining issues in CU-DU MRO (Qualcomm Incorporated) | discussion |
| [R3-202121](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202121.zip) | Signalling of RLF information from gNB-CU to gNB-DU (Ericsson) | discussion |
| [R3-202122](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202122.zip) | Signalling of RLF information from gNB-DU to gNB-CU (Ericsson) | discussion |
| [R3-202123](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202123.zip) | Addition of SON features TP 38.470 (Ericsson) | other |
| [R3-202124](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202124.zip) | Signalling of RLF Report to gNB-DU TP 38.473 (Ericsson) | other |
| [R3-202125](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202125.zip) | Handling of RLF in the gNB-DU TP 38.473 (Ericsson) | other |
| [R3-202126](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202126.zip) | Addition of SON features CR 38.401 (Ericsson) | CR0120r, TS 38.401 v16.1.0, Rel-16, Cat. B |
| [R3-202317](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202317.zip) | Open issues for CU-DU MRO (LG Electronics) | discussion |
| [R3-202318](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202318.zip) | (TP for NR\_SON\_MDT BL CR for TS 38.473): Open issues for CU-DU MRO (LG Electronics) | other |
| [R3-202394](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202394.zip) | Left issue for CU-DU MRO (ZTE) | discussion |
| [R3-202395](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202395.zip) | TP for [NR\_SON\_MDT] BL CR for TS 38.473) CU-DU MRO (ZTE) | other |
|  **CB: # 1003\_Email\_SON-MDT\_CUDUMRO****- Start the discussion from high level principles as raised in 1791, 2121, 2122, 2317, and 2394****- Remember the agreements from the previous meeting****- Discuss what information has to be provided from gNB-CU to gNB-DU and from gNB-DU to gNB-CU – list these as issues in the email discussion summary and solicit comments from companies****- Attempt to agree the principles as mentioned above,** **once there is an agreement or at least clear majority view – proceed to discuss the TPs****- Attempt to come up with agreeable TP at least for 38.473 based on 2124, 2125, 2318, and 2395****- Furthermore, you may also attempt to come up with agreeable TPs for 38.470 and 38.401 (second priority, stage-3 comes first), based on 2123 and 2126****- This email discussion is expected to produce agreements (to be captured in the meeting minutes) on the high level principles, stage-3 TP, and possibly stage-2 TP – in that order****- Note – this email discussion may benefit from some “online” time, preferably after the “first phase” of collecting companies’ views on the high-level principles** (LGE)Summary of offline discussion |
| 10.2.1.5. Successful Handover Report*Pending RAN2 discussion, but RAN2 will not discuss this in Rel-16 – no discussion needed at this time* |
| 10.2.1.6. UE Reported Mobility History |
| [R3-201740](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201740.zip) | (TP for SON BL CR for TS 38.413) UE reported history information (Huawei) | other |
| [R3-201741](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201741.zip) | (TP for SON BL CR for TS 38.423) UE reported history information (Huawei) | other |
|  **CB: # 1004\_Email\_SON-MDT\_MobHist****- This email discussion is expected to produce TPs for 38.413 and 38.423****- Discuss UE history information from UE proposed in 1740 and 1741****- Come up with agreeable TPs****- Start the discussion based on the TPs referenced above as they are**(HW)Summary of offline discussion |
| 10.2.2. Mobility Load Balancing**QUOTA: 7***Intra-system*Add RESOURCE STATUS REQUEST/RESPONSE/UPDATE procedures for Xn, X2 (for EN-DC), F1 and E1 interfaces (IEs for each interface are to be discussed separately)*Acknowledge the need of reporting spatial load distribution of cells; a solution is needed; RAN3 will work on a solution. Details on solutions are FFS. To be continued...**Inter-System MLB is not in WI scope*For UEs in RRC\_CONNECTED, introduce it in Xn (and FFS on X2)For TNL load, report maximum value and available value in % (FFS whether to report per-cell or per-node, and whether to report F1 and S1 separately)For HW load, introduce it for E1(for CU-UP) and report maximum value and available value in %Support per-SSB area granularityFor per slice granularity, support this granularity for CAC (Details and other metrics are FFS) |
| 10.2.2.1. MLB for Xn/X2/F1/E1CAC shall be supported on F1, Xn, X2TNL load shall be supported on F1 and E1*Per-slice load: previous summary of offline disc in* [*R3-196161*](https://www.3gpp.org/ftp/tsg_ran/WG3_Iu/TSGR3_105bis/Docs/R3-196161.zip)*, noted; to be continued…*Make Report Characteristics conditional to Registration Request setting to “start”.Need to clarify what happens if we try to add a cell that is already initiated for reporting: If measurements are already initiated for a cell indicated in the Cell To Report IE, this information shall be ignored.Add missing procedure text for all measurements and align FFSInclude the SSB index in the request and in the measurement (in CAC and PRB), with range [0..63]. Add measurement IDs to F1AP RESOURCE STATUS UPDATEMake cell list optional (CATT 0433) with procedural text mandating the cell list when needed.Add reporting SSB ID (CATT 0433)Confirm averaging window that equals to the reporting periodicity for all periodic load measurements and interfaces for Resource Status Update messages in NR.Align the BL CR on the existing NGAP and XnAP principle for signaling of S-NSSAI listsReword the text for unsuccessful operation (i.e. partial success not supported in Rel-16). |
| [R3-201742](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201742.zip) | (TP for SON BL CR for TS 38.423): MLB (Huawei) | other |
| [R3-201743](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201743.zip) | (TP for SON BL CR for TS 38.473): MLB (Huawei) | other |
| [R3-201744](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201744.zip) | (TP for SON BL CR for TS 36.423): MLB (Huawei) | other |
| [R3-201745](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201745.zip) | (TP for SON BL CR for TS 38.463): MLB (Huawei) | other |
| [R3-201832](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201832.zip) | Load reporting metric per slice for improved interoperability (Nokia, Nokia Shanghai Bell) | other |
| [R3-201833](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201833.zip) | Clarifications and handling of open points on load reporting metric (Nokia, Nokia Shanghai Bell) | discussion |
| [R3-201834](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201834.zip) | (TP for SON BL CR for TS 38.423) Load reporting updates (Nokia, Nokia Shanghai Bell) | other |
| [R3-201835](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201835.zip) | (TP for SON BL CR for TS 38.463) Load reporting updates (Nokia, Nokia Shanghai Bell) | other |
| [R3-201836](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201836.zip) | (TP for SON BL CR for TS 38.473) Load reporting updates (Nokia, Nokia Shanghai Bell) | other |
| [R3-201837](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201837.zip) | (TP for SON BL CR for TS 36.423) Load reporting updates (Nokia, Nokia Shanghai Bell) | other |
| [R3-201894](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201894.zip) | Further consideration on active UEs (updated) (NTT DOCOMO, INC., Verizon Wireless, Deutsche Telekom, Vodafone, TELECOM ITALIA, CMCC) | discussion |
| [R3-201898](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201898.zip) | (TP for SON BL CR on 36.423) Addition of active UEs in load reporting (NTT DOCOMO INC.) | discussion |
| [R3-201902](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201902.zip) | (TP for SON BL CR on 38.423) Addition of active UEs in load reporting (NTT DOCOMO INC.) | discussion |
| [R3-201906](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201906.zip) | (TP for SON BL CR on 38.473) Addition of active UEs in load reporting (NTT DOCOMO INC.) | discussion |
| [R3-201995](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201995.zip) | Introduction of MLB for EN-DC (CATT) | draftCRr, TS 36.300 v16.1.0, Rel-16, Cat. B |
| [R3-201996](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201996.zip) | Remaining Issues for MLB metrics (CATT) | discussion |
| [R3-201997](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201997.zip) | (TP on SON BLCR for 38.423) TP on MLB metrics (CATT) | other |
| [R3-201998](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201998.zip) | (TP on SON BLCR for 38.473) TP on MLB metrics (CATT) | other |
| [R3-201999](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201999.zip) | (TP on SON BLCR for 36.423) TP on MLB metrics (CATT) | other |
| [R3-202267](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202267.zip) | MLB – TP for BL CR for 38.423 (Ericsson) | other |
| [R3-202268](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202268.zip) | MLB – TP for BL CR for 38.473 (Ericsson) | other |
| [R3-202269](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202269.zip) | MLB – TP for BL CR for 38.463 (Ericsson) | other |
| [R3-202270](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202270.zip) | MLB – TP to BL CR for 36.423 (Ericsson) | other |
| [R3-202271](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202271.zip) | MLB – TP to BL CR for 38.300 (Ericsson) | other |
| [R3-202272](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202272.zip) | Discussion on remaining FFS for MLB in Rel-16 (Ericsson) | discussion |
| [R3-202273](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202273.zip) | Discussion on TNL and HW capacity indicators for MLB in Rel-16 (Ericsson) | discussion |
| [R3-202396](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202396.zip) | Left Issues for MLB (ZTE) | discussion |
| [R3-202397](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202397.zip) | TP for [NR\_SON\_MDT] BL CR for TS 36.423) Addition of MLB Features (ZTE) | other |
| [R3-202398](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202398.zip) | TP for [NR\_SON\_MDT] BL CR for TS 38.423) Addition of MLB Features (ZTE) | other |
| [R3-202399](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202399.zip) | TP for [NR\_SON\_MDT] BL CR for TS 38.473) Addition of MLB Features (ZTE) | other |
| [R3-202439](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202439.zip) | Remaining issues of MLB (CMCC) | discussion |
| [R3-202440](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202440.zip) | TP to SON BLCR 38.300 on support of MLB (CMCC) | other |
| [R3-202441](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202441.zip) | TP to SON BLCR 38.423 on support of MLB (CMCC) | other |
| [R3-202438](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202438.zip) | TP to SON BLCR 38.300 on support of MLB (China Mobile International Ltd) | other |
|  **CB: # 1005\_Email\_SON-MDT\_\_MLB****- Start the discussion from high level principles, list all the points raised (see below) as separate issues in the email discussion and solicit companies’ views on:**  **- SUL**  **- Active UEs** **- Load reporting per node or cell level or slice** **- Network sharing** **- Slice Capacity Value vs. Slice Available Capacity Value** **- HW Capacity Indicator IE** **- The email discussion rapporteur has the freedom to list other issues (based on contributions submitted) for discussion****- Attempt to agree at least on some of the issues (as listed above), once there is an agreement or at least clear majority view – proceed to discuss the TPs****- This email discussion is expected to produce agreements (to be captured in the meeting minutes) on the high level principles, stage-3 TP for 38.473, 38.463, 38.423, 36.423, and possibly stage-2 TP for 38.300 – in that order****- FFS, corrections (e.g. ASN.1, presence, etc), missing parts (e.g. procedural text where needed, etc) are to be discussed when the discussion progresses to the TP stage (high level agreements should come first)****- Note – this email discussion may benefit from some “online” time, preferably after the “first phase” of collecting companies’ views on the high-level principles** (Nokia)Summary of offline discussion |
| 10.2.2.2. Void |
| 10.2.2.3. MLB for MR-DC |
| 10.2.3. RACH Optimization**QUOTA: 4**RACH configuration conflict detection and resolution function is located at the gNB-DU; details on assistance info exchanged between CU and DU are FFSgNB-DU needs to know the PRACH configuration of some or all cells neighbors to a cell subject to RACH configuration conflict, in order to effectively chose a new PRACH configuration for the cell in conflictSignaling of UE RACH Reports to the gNB-DU is needed |
| 10.2.3.1. RACH Optimization Enhancements*Previous summary of offline disc in* [*R3-201132*](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201132.zip)*, noted**Previous in* [*R3-201329*](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201329.zip)*,* [*R3-201347*](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201347.zip) *(noted)**To be continued on this basis…* |
| [R3-201626](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201626.zip) | Discussion on the Leftover Issues on PRACH Optimization (China Telecom) | discussion |
| [R3-201628](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201628.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 36.423) Addition of PRACH Coordination in EN-DC (China Telecom,CATT) | discussion |
| [R3-201792](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201792.zip) | Finalize PRACH parameters to be exchanged over Xn and F1 for RACH optimization (Qualcomm Incorporated) | discussion |
| [R3-201839](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201839.zip) | Discussion on PRACH Configuration Exchange based on CB#29 at RAN3#107-e (Nokia, Nokia Shanghai Bell) | discussion |
| [R3-201861](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201861.zip) | (TP for SON BL CR for TS 38.473): PRACH configuration exchange over (resubmission of [R3-201347](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201347.zip)) (Huawei, CATT, CMCC) | other |
| [R3-201862](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201862.zip) | (TP for SON BL CR for TS 38.423): PRACH configuration exchange (Huawei) | other |
| [R3-201863](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201863.zip) | (TP for SON BL CR for TS 38.473): PRACH configuration exchange (Huawei) | other |
| [R3-201864](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201864.zip) | (TP for SON BL CR for TS 38.423):UE RACH report for RACH optimization (Huawei, China Telecom) | other |
| [R3-201865](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201865.zip) | (TP for SON BL CR for TS 38.473):UE RACH report for RACH optimization (Huawei, China Telecom) | other |
| [R3-201990](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201990.zip) | (TP for SON BL CR for TS 38.423): Resubmission of [R3-201319](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201319.zip)(outcome of offline discussion in last meeting) (CATT,China Telecom,CMCC,Huawei) | other |
| [R3-201991](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201991.zip) | Discussion on PRACH coordination (CATT) | discussion |
| [R3-201992](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201992.zip) | (TP on SON BLCR for 38.300) TP on PRACH coordination (CATT) | other |
| [R3-201993](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201993.zip) | (TP on SON BLCR for 38.423) TP on PRACH coordination (CATT) | other |
| [R3-201994](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201994.zip) | (TP on SON BLCR for 38.473) TP on PRACH coordination (CATT) | other |
| [R3-202265](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202265.zip) | TP for PRACH Configuration IE Signalling on Xn Interface (Ericsson) | other |
| [R3-202266](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202266.zip) | Solution for RACH Conflict Detection and Resolution at gNB-DU (Ericsson) | other |
| [R3-202400](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202400.zip) | Left issue for PRACH configuraiton parameter (ZTE) | discussion |
|  **CB: # 1006\_Email\_SON-MDT\_PRACHConfig****- Expectation level – given the state of the discussion, it would be good to agree at least some TPs with as many FFS as needed to keep everybody happy; don’t try too hard to finalize everything (even though it would be welcome if you manage to) – the important thing is to make progress****- Focus on PRACH configuration information to be exchanged over Xn and F1 first, once there are at least some agreements on the information to be exchanged, proceed to discuss the messages and IEs to be used****- Structure the email discussion as follows – list parameters to be included (based on contributions submitted) in PRACH information exchange and solicit companies’ views****- The email discussion rapporteur is free to include other issues in the discussion as well (e.g. X2 for EN-DC)** **- Attempt to agree at least on some elements the information to be exchanged, once there is an agreement or at least clear majority view – proceed to discuss the TPs****- This email discussion is expected to produce agreements at least on some information to be exchanged and TPs (with as many FFS as needed)****- Note – this email discussion may benefit from some “online” time**  (CATT)Summary of offline discussion |
| 10.2.3.2. Configuration Conflicts for RACH Optimization |
| [R3-201793](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201793.zip) | RACH configuration conflict detection and resolution function (Qualcomm Incorporated) | discussion |
| [R3-201840](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201840.zip) | Discussion on PRACH Configuration Conflict Resolution based on CB#30 at RAN3#107-e (Nokia, Nokia Shanghai Bell) | discussion |
| [R3-202286](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202286.zip) | (TP for SON BL CR for TS 38.423) RACH configuration conflict detection and resolution function (Qualcomm Incorporated) | other |
| [R3-202287](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202287.zip) | (TP for SON BL CR for TS 38.473) RACH configuration conflict detection and resolution function (Qualcomm Incorporated) | other |
| [R3-202401](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202401.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 38.473)Left issue for RACH Report from UE (ZTE) | other |
| [R3-202402](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202402.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 38.423)Addition of PRACH exchange (ZTE) | other |
| [R3-202403](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202403.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 38.473)Addition of PRACH exchange (ZTE) | other |
| [R3-202263](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202263.zip) | TP for RACH Report Signalling on F1 Interface (Ericsson) | otherMove to 10.2.3.2 |
| [R3-202264](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202264.zip) | TP for RACH Report Signalling on XN Interface (Ericsson) | otherMove to 10.2.3.2 |
| [R3-201841](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201841.zip) | (TP for SON BL CR for TS 38.473) Introduction of RACH Assistance Information (Nokia, Nokia Shanghai Bell) | otherMove to 10.2.3.2 |
| [R3-201842](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201842.zip) | (TP for SON BL CR for TS 38.423) Introduction of RACH Assistance Information (Nokia, Nokia Shanghai Bell) | otherMove to 10.2.3.2 |
|  **CB: # 1007\_Email\_SON-MDT\_RACHReport****- Discuss further details of the RACH report on Xn and F1 interfaces, specifically:** **- Information to be included in the RACH report** **- Messages to be used over Xn and F1 for the RACH report**  **- Triggering mechanism for DU to retrieve RACH Report from CU****- My suggestion is to list information to be exchanged in the RACH report and messages to be used (based on the contributions submitted) as separate issues in the email discussion to solicit companies’ views; once consensus or at least a majority view emerges – proceed to discuss TPs****- This email discussion is expected to produce agreements (to be captured in the meeting minutes) on the RACH report related information and messages, and TPs for 38.423 and 38.473****- Note: filtering is mentioned in many papers, but please note that the stage-2 agreed in the previous meeting already allows filtering and since it is unlikely that much more than that will be eventually put in the normative text, perhaps we don’t need to spend much time on filtering**(QCOM)Summary of offline discussion |
| 10.2.4. PCI Selection*Depending on work progress, this may be discussed in the later part of the WI* |
| 10.2.5. Energy Saving*OAM requirements only**Depending on work progress, this may be discussed in the later part of the WI* |
| 10.3. Signaling Support for Minimization of Drive Testing**QUOTA: 7***For identified use cases, including coverage optimization, QoS verification via MDT, indoor MDT improvement, location info reporting, and sensor data collection (in cooperation with RAN2)**For stand-alone, NR-DC and EN-DC, including CU-DU split architecture**W1 specification work is not in the scope*Initial Context Setup, Handover Request and Trace Start Message, and retrieve UE context response are used for signaling based MDT activationDeactivate trace and trace failure indication are used for MDT deactivationUE Context Request and Trace Start on F1, Bearer context Setup and Trace Start on E1 are used for signaling based MDT activation. The EM of each node may send the MDT activation to CU-CP, DU, and CU-UP directly. If a gNB-CU receives a management based MDT activation, it may propagate the MDT configuration to DU and/or CU-UP over F1 and E1 if needed.The EM of each node may send the MDT deactivation to CU-CP, DU, and CU-UP directly. If a gNB-CU receives a management based MDT deactivation, it may propagate the management based MDT deactivation to DU and/or gNB-CU-UP if needed.In non-split RAN architecture, the NG-RAN node reports the MDT data to TCE. In split RAN architecture, the MDT data is reported to TCE by each node directly; it is FFS whether the gNB-CU-CP may combine MDT data received by other nodes to report to TCE |
| 10.3.1. MDT Activation and ReportingSignaling based logged MDT configuration includes following parameters (NG):- MDT mode configuration, i.e., logged MDT only;- Area scope of MDT, including cell list of E-CGI or N-CGI, TAC list of serving PLMN, TAI list, and PLMN wide; (may need to be updated pending RAN2 discussion)- Logging interval;- Logging duration;- Bluetooth Measurement Configuration;- WLAN Measurement Configuration;Signaling based immediate MDT configuration includes following parameters (NG):- MDT mode configuration: immediate MDT only, immediate MDT and trace;- Area scope of MDT, including cell list of E-CGI or N-CGI, TAC list of serving PLMN, TAI list, and PLMN wide; (may need to be updated pending RAN2 discussion)- MDT location information, enumerated type;- Signaling based MDT PLMN List.NG-RAN receives the management based MDT allowed information in the NG Initial Context Setup Request message. The management based MDT allowed information includes the Management Based MDT Allowed indication and optionally the Management Based MDT PLMN ListAgree to define Cell Traffic Trace in F1 and E1.No NR CGI ID is included in E1 and F1 Cell Traffic Trace. AP IDs shall be included in the Cell Traffic Trace message.It is proposed to agree the below changes to BL CR.- Agree to remove FFS for immediate MDT configuration and logged MDT configuration in MDT Configuration-NR IE in NG, Xn, E1, F1. Taking example in [R3-200496](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-200496.zip). - Add new IE-Reporting Type for Event trigger Logged MDT in NG and Xn. i.e. take Ericson proposal in [R3-200965](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-200965.zip).- Agree to MDT measurement activation bitmap for immediate MDT in NG.- The MDT measurements configurations except the area of scope IE for EUTRAN connecting to 5GC can be OCTET STRING and refer to TS 36.413 to simplify NG specification impact.Whether new value for logging interval IE is defined is pending to RAN2 agreement.It is proposed to send a LS to RAN2, informing RAN3 agreed to remove the management based MDT Allowed IE and keep MDT PLMN list. Then RAN2 can take RAN3 agreement into account and update specification if needed.It is proposed to add MDT Location Information IE in MDT Configuration IE in F1, and it is marked FFS |
| [R3-201783](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201783.zip) | (TP for MDT BL CR for TS 38.423) Remaining issues in MDT (Qualcomm Incorporated) | other |
| [R3-201784](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201784.zip) | (TP for MDT BL CR for TS 38.413) Remaining Issues in MDT (Qualcomm Incorporated) | other |
| [R3-201790](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201790.zip) | Remaining issues in MDT (Qualcomm Incorporated) | discussion |
| [R3-201838](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201838.zip) | (TP for MDT BL CR for TS 38.473) Further discussion on addition of immediate MDT for intra-DU inter-cell mobility scenarios (Nokia, Nokia Shanghai Bell) | other |
| [R3-201866](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201866.zip) | (TP for MDT BL CR for TS 38.413): Clean up FFSes in MDT BLCR (Huawei,CMCC) | other |
| [R3-201867](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201867.zip) | (TP for MDT BL CR for TS 38.423): Clean up FFSes in MDT BLCR (Huawei, CMCC) | other |
| [R3-201868](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201868.zip) | (TP for MDT BL CR for TS 38.473): Clean up FFSes in MDT BLCR (Huawei) | other |
| [R3-201869](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201869.zip) | (TP for MDT BL CR for TS 38.463): Clean up FFSes in MDT BLCR (Huawei) | other |
| [R3-201870](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201870.zip) | Beam related configuration for immediate MDT (Huawei) | discussion |
| [R3-201871](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201871.zip) | (TP for MDT BL CR for TS 38.413): Beam related configuration for immediate MDT (Huawei) | other |
| [R3-201872](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201872.zip) | (TP for MDT BL CR for TS 38.423): Beam related configuration for immediate MDT (Huawei) | other |
| [R3-202000](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202000.zip) | Support of MDT (CATT) | discussion |
| [R3-202001](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202001.zip) | (TP on MDT BLCR for 38.413)Correction on MDT (CATT) | other |
| [R3-202002](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202002.zip) | (TP on MDT BLCR for 38.423)Correction on MDT (CATT) | other |
| [R3-202258](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202258.zip) | TP for introducing Area scope for neighbour cell configuration on NGAP (Ericsson) | other |
| [R3-202259](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202259.zip) | TP for introducing Area scope for neighbour cell configuration on Xn (Ericsson) | other |
| [R3-202305](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202305.zip) | URI for Streaming Trace reporting (Nokia, Nokia Shanghai Bell) | discussion |
| [R3-202319](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202319.zip) | Open issues for MDT activation and report (LG Electronics) | discussion |
| [R3-202379](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202379.zip) | (TP for MDT BL CR for 38.473) Correction for Cell Traffic Trace message and MDT configuration (Samsung R&D Institute UK) | other |
| [R3-202380](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202380.zip) | (TP for MDT BL CR for 38.463) Correction for Cell Traffic Trace message and MDT configuration (Samsung R&D Institute UK) | other |
| [R3-202381](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202381.zip) | (TP for MDT BL CR for 38.413) Addition of Privacy Indicator to Cell Traffic Trace message (Samsung R&D Institute UK) | other |
| [R3-202382](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202382.zip) | (TP for MDT BL for 38.423) Propagation for Management Based MDT PLMN List (Samsung R&D Institute UK) | other |
| [R3-202404](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202404.zip) | Left issue for MDT (ZTE) | discussion |
| [R3-202405](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202405.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 38.413)Addition of RACH OPTIMIZATION (ZTE) | other |
| [R3-202406](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202406.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 38.423)Addition of RACH OPTIMIZATION (ZTE) | other |
| [R3-202407](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202407.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 38.463)Addition of RACH OPTIMIZATION (ZTE) | other |
| [R3-202408](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202408.zip) | (TP for [NR\_SON\_MDT] BL CR for TS 38.473)Addition of RACH OPTIMIZATION (ZTE) | other |
| [R3-202256](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202256.zip) | Measurement Configuration updates on NGAP TP (Ericsson) | otherMoved to 10.3.1 |
| [R3-202257](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202257.zip) | Measurement Configuration updates on Xn TP (Ericsson) | otherMoved to 10.3.1 |
| [R3-202260](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202260.zip) | Averaging interval Discussion (Ericsson) | discussionMoved to 10.3.1 |
|  **CB: # 1008\_Email\_SON-MDT\_MDT****- Discuss missing MDT functionality and parameters as proposed in the contributions, specifically:** **- “Signaling Based Logged MDT State” flag in the RETRIEVE UE CONTEXT RESPONSE message on XnAP** **- MDT activation information in the UE Context Modification procedure** **- "Deactivate MDT" codepoint to the MDT Activation IE** **- Area scope configuration for logged MDT** **- Beam related configuration for immediate MDT** **- NR CGI in the S1AP Cell Traffic Trace message** **- Stream based MDT and Trace reporting** **- management based MDT PLMN list transfer during Xn HO** **- TRACE FAILURE INDICATION message usage in case of intra-system inter-RAT HO via Xn** **- PLMN Wide IE from area scope of MDT IE for NR and LTE****- Check consistency with RAN2 agreements, fix what needs to be fixed (e.g. logging interval, M5-M7 for split bearers, M6, etc)****- Check and try to resolve FFS****- Misc. corrections, as proposed in the papers, can be addressed during the TP discussion****- Discuss other minor corrections and additions, as proposed in the papers****- This email discussion is expected to produce agreements (to be captured in the meeting minutes) and TPs for 38.413, 38.423, 38.473, 38.463****- My suggestion is to first discuss all the points listed above, by including all of them as issues in the email discussion, collect companies’ views and attempt to agreed at least some of them; then proceed to discuss the TPs****- Some companies proposed to send out LS, this can be discussed as lower priority****- Note wrong title in 2405, 2406, 2407, 2408**(Nokia)Summary of offline discussion |
| 10.3.2. MDT for Inactive UEs |
| [R3-202261](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202261.zip) | Logged MDT availability indicator signal over Xn (Ericsson) | other |
|  **CB: # 1009\_Email\_SON-MDT\_MDT\_Inactive****- Take into account related points raised in 1790 (e.g. “open issue #1”) and 1783, 1784 (submitted to 10.3.1)****- Collect companies’ views on the issue of Logged MDT availability flag in the RETRIEVE UE CONTEXT RESPONSE message, proceed only if there is consensus or at least clear majority view** (E///)Summary of offline discussion |
| 10.3.3. MDT for MR-DCIntroduce MDT Configuration NR IE in Trace Activation IE in both S1AP and X2 AP.MDT configuration NR IE is defined as an OCTET STRING type IE referring to TS 38.413 for detailed definition.Add the following note in proper place of the procedural text: “Only immediate MDT configurations are included in the MDT configuration NR IE in this version of the specification”.Reuse the current Management MDT allowed IE and MDT PLMN list IE to indicate the user consent for NR.Introduce both the Management MDT allowed IE and MDT PLMN list IE in SgNB Addition Request message and SgNB Modification Request message.Introduce Cell Traffic Trace from S-engNB to MeNB to X2AP to support management based MDT triggered in S-en-gNB.*FFS on whether to add the NR CGI in S1AP Cell Traffic Trace message**FFS how to support M5~M7 in S-gNB in EN-DC case and pending to RAN2 discussion* |
| [R3-202262](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202262.zip) | User consent propagation updates for stage 2 MDT (Ericsson) | other |
| [R3-202409](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202409.zip) | Left issue for EN-DC MDT (ZTE) | discussion |
|  **CB: # 1010\_Email\_SON-MDT\_MDT\_MRDC****- 2262 can be discussed directly based on the TP itself, no need to include it in the questionnaire** **- For 2409, collect companies’ views by listing it as an “issue” in the email discussion; proceed to TP if there is consensus**(ZTE)Summary of offline discussion |
| 10.3.4. Void |
| 10.3.5. Specification of Layer 2 Measurements*In cooperation with RAN2* |
| [R3-202410](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202410.zip) | L2 measurement (ZTE) | discussion |
|  **CB: # 1011\_Email\_SON-MDT\_L2Meas****- Void: 2256, 2257, and 2260 are moved to AI 10.3.1, the only remaining paper 2410 seems to be for RAN2 anyway**(ZTE) |

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| 20. 5G V2X with NR Sidelink WIWID [5G\_V2X\_NRSL]: [RP-191723](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_85/Docs/RP-191723.zip) (target: RAN #88-e) [TU: 1 (1)] |
| 20.1. General*Time plan, skeletons, BLs* |
| [R3-201570](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201570.zip) | Support of NR V2X SIB in gNB-DU (Ericsson) | CR0065r2, TS 38.470 v16.1.0, Rel-16, Cat. B |
| [R3-201575](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201575.zip) | Support of NR V2X over S1 (Huawei, LG Electronics, Ericsson, CATT) | CR1709r7, TS 36.413 v16.1.0, Rel-16, Cat. B |
| [R3-201576](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201576.zip) | Support of NR V2X over X2 (CATT, Huawei, Ericsson, LG Electronics) | CR1369r8, TS 36.423 v16.1.0, Rel-16, Cat. B |
| [R3-201577](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201577.zip) | Support of NR V2X over NG (LG Electronics, Ericsson, Huawei, CATT) | CR0168r7, TS 38.413 v16.1.0, Rel-16, Cat. B |
| [R3-201578](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201578.zip) | Support of NR V2X over Xn (Ericsson, LG Electronics, CATT, Huawei) | CR0151r9, TS 38.423 v16.1.0, Rel-16, Cat. B |
| [R3-201579](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201579.zip) | Support of NR V2X over F1 (Huawei, LG Electronics, Ericsson, CATT) | CR0432r7, TS 38.473 v16.1.0, Rel-16, Cat. B |
|  **CB: # 1012\_Email\_V2X\_BLs****- Endorse all BL CRs****- check details, revise if needed****- expect discussions only to ensure correctness of BL CRs, no new proposals (in this discussion)**(LGE)Summary of offline discussion |
| 20.2. Signaling Support for NR Sidelink |
| 20.2.1. V2X Service Authorization**QUOTA: 2***Including UE SL AMBR*Two separate IEs on V2X Services Authorized (NR V2X Services Authorized IE and LTE V2X Services Authorized IE), for V2X Services Authorization, on NG, S1, Xn, X2, and F1 (for mode 1, FFS for mode 2)RAN3 agreed to support implicit cross-RAT authorization (as in the current BL CR)Introduce two IEs, i.e., NR UE Sidelink Aggregate Maximum Bit Rate IE and LTE UE Sidelink Aggregate Maximum Bit Rate IE, for UE Sidelink AMBR5GC provides alternative QoS profile to NG-RAN |
| 20.2.2. V2X Support over F1**QUOTA: 2**The sidelink resource pool is configured in the gNB-DU by OAMFor mode 1 (all types) DU is responsible for SL resource allocationMode 2 SL resources are configured by DUDU is responsible for LTE V2X sidelink resource allocation Mode 3 (SPS scheduling)RAN3 understands that no explicit indication about UE type (P-UE vs. V-UE) is needed on F1WA: re-use UE Context Setup/Modification for sidelink resource requestgNB-DU encodes the V2X SIBgNB-DU System Information IE can be re-used to pass V2X SIBs from gNB-DU to gNB-CU, which shall include SIBX, SIBY, SIBZ (final Naming and number are pending to RAN2 CR).Introduce the UEAssistanceInformationEUTRA IE in the CU to DU RRC Information IE.RAN3 first waits for RAN2’s reply, and then decides on the transmission of the sidelink resource request from CU to DU, i.e., whether RRC container or parallel IEs in F1 message.SL DRB setup/ modification/release shall be considered for a RRC connected UE. As a baseline, SL DRB parameters include SL DRB ID, SL DRB QoS, PC5 QoS flow mapped to the SL DRB, RLC mode (for SL unicast only), PDCP SN size (for SL unicast only). We can keep an eye on RAN2’s progress and add other parameters if needed.How to configure the mapping of Destination L2 IDs and Tx profiles has no RAN3 specification impact, e.g., direct OAM configuration to DU can be used.*Some issues are pending RAN2**Previous summary of offline disc.:* [*R3-201193*](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201193.zip) *(noted)* |
| [R3-201640](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201640.zip) | Remaining issues on F1 support for 5G sidelink resource modes (LG Electronics) | discussion |
| [R3-201649](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201649.zip) | (TP for BLCR 38.473) remaining Issues on F1 (LG Electronics) | other |
| [R3-201748](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201748.zip) | [DRAFT] Reply LS on Sidelink UE Information (LG Electronics) | LS out |
| [R3-201882](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201882.zip) | Further consideration on PC5 QoS Parameters over F1 (CATT) | discussion |
| [R3-201883](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201883.zip) | (TP for NR BL CR for TS 38.473) PC5 QoS Parameters over F1 (CATT) | other |
| [R3-202037](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202037.zip) | Discussion on remaining issues on F1 (ZTE, Sanechips) | discussion |
| [R3-202058](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202058.zip) | (TP for V2X BL CR for TS 38.473): Remaining issues on F1 (ZTE, Sanechips) | other |
| [R3-202198](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202198.zip) | Discussion on support of SL UE information over F1 (Ericsson) | other |
| [R3-202199](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202199.zip) | Clarification on SL DRB QoS (Ericsson) | other |
| [R3-202228](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202228.zip) | (TP for V2X BL CR for 38.473) F1 impacts for V2X (Huawei) | other |
| [R3-202426](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202426.zip) | [DRAFT] LS on F1 impact on NR V2X (Huawei) | LS out |
|  **CB: # 1013\_Email\_V2X\_F1****- Discuss remaining open issues, specifically:** **- Reuse of UE Context Setup/Modification for side-link resource request** **- New SidelinkUEInformationIE in CU to DU RRC Information vs. existing RRC containers (RAN2 impact)** **- SIB information in gNB-DU System Information IE** **- UEAssistanceInformationEUTRA IE in the CU to DU RRC Information IE** **- SL DRB to be Setup related IEs** **- Whether to transfer PC5 QoS info received from CN to gNB-DU** **- The email discussion rapporteur can add other topics for discussion (based on the contributions submitted)****- First discuss the points listed above by listing these as issues in the email discussion summary and solicit comments from companies; then proceed to TP for 38.473****- The need for LS can also be discussed, if there is consensus – proceed to draft the LS**(HW)Summary of offline discussion |
| 20.2.3. Resource Coordination between NG-RAN Nodes for V2X Sidelink**QUOTA: 2***Taking into consideration previous RAN3 discussions*V2X frequency and bandwidth information exchanged between RAN nodes shall be supportedOn interference issue, Rel-16 does not introduce additional signaling enhancement for resource coordination between NG-RAN nodes. In Rel-16, existing solution, e.g. MR-DC coordination IE for Uu, could be used to solve the interference problem in the MN. Further check with RAN1/RAN4 whether existing solution is enough to address the interference issue in Rel-17 (pending on the Rel-17 WID in RAN) We do not exchange capability information between NG-RAN nodes.Investigate more how the exchange of V2X configuration is beneficial for mobility. Keep the FFS marks*Previous summary of offline disc.:* [*R3-201194*](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201194.zip) *(noted)* |
| [R3-202200](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202200.zip) | Removal of exchanging V2X configuration between NG-RAN nodes (Ericsson) | discussion |
| [R3-202201](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202201.zip) | (TP to V2X BL CR for TS 36.423 and 38.473): Removal of exchanging V2X configuration between NG-RAN nodes (Ericsson) | other |
| [R3-202229](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202229.zip) | (TP for V2X for TS 36.423) Remove FFS for V2X configuration exchange (Huawei) | other |
| [R3-202230](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202230.zip) | (TP for V2X BL CR for TS 38.423 & 38.473) Remove FFS for V2X configuration exchange (Huawei) | other |
|  **CB: # 1014\_Email\_V2X\_ResCoord****- To be, or not to be: that is the question:****- Whether to keep the V2X configuration exchange IEs****- Include this existential question as the “issue” in the email discussion, collect companies’ views; proceed with TPs in accordance with the consensus or at least the majority view** (E///)Summary of offline discussion |
| 20.2.4. Support for QoS**QUOTA: 4***LS from SA2**Previous summary of offline disc.:* [*R3-194745*](https://www.3gpp.org/ftp/tsg_ran/WG3_Iu/TSGR3_105/Docs/R3-194745.zip) *(noted)**Support for alternative QoS profiles during UE mobility (previous in* [*R3-196102*](https://www.3gpp.org/ftp/tsg_ran/WG3_Iu/TSGR3_105bis/Docs/R3-196102.zip)*, noted)*NG-RAN reports the current QoS level performance only in terms of an index corresponding to one alternative QoS profile in the notification controlIf NG-RAN receives the QNC with no alternative QoS profile it behaves as in Rel-15*Previous summary of offline disc.:* [*R3-201229*](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201229.zip) *(noted)**Alt. QoS: Previous summary of offline disc.:* [*R3-201195*](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201195.zip) *(noted); to be continued…* |
| [R3-201642](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201642.zip) | Issue on PC5 QoS parameters (LG Electronics) | discussion |
| [R3-201680](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201680.zip) | On alternative QoS profiles (Intel Corporation) | discussion |
| [R3-201733](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-201733.zip) | (TP for BLCR 38.473) on PC5 QoS parameters (LG Electronics) | other |
| [R3-202172](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202172.zip) | Support for alternative QoS profiles (Nokia, Nokia Shanghai Bell, Ericsson, CATT, ZTE, Samsung, LG Electronics) | discussion |
| [R3-202183](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202183.zip) | (TP for BL CR V2X for 38.413) Support for alternative QoS profiles over NG (Nokia, Nokia Shanghai Bell, Ericsson, CATT, ZTE, Samsung, LG Electronics) | other |
| [R3-202202](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202202.zip) | (TP to V2X BL CR for TS 38.423): Support of Alternative QoS profiles over Xn (Ericsson, Nokia, Nokia Shanghai Bell, CATT, ZTE, Samsung, LG Electronics) | other |
| [R3-202203](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202203.zip) | (TP to V2X BL CR for TS 38.473): Support of Alternative QoS profiles over F1 (Ericsson, Nokia, Nokia Shanghai Bell, CATT, ZTE, Samsung, LG Electronics) | other |
| [R3-202204](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202204.zip) | Reply LS on Enhancements to QoS Handling for V2X communication over Uu reference point (Nokia, Nokia Shanghai Bell, Ericsson, CATT, ZTE, Samsung, LG Electronics) | LS out |
| [R3-202231](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202231.zip) | Discusssion on Alternative QoS Profiles (Huawei, Vodafone) | discussion |
| [R3-202232](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202232.zip) | Support of Alternative QoS Profiles (Huawei, Vodafone) | draftCRr, TS 38.300 v16.1.0, Rel-16, Cat. B |
| [R3-202233](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202233.zip) | Support of Alternative QoS Profiles (Huawei, Vodafone) | CR0344r1, TS 38.413 v16.1.0, Rel-16, Cat. B |
| [R3-202234](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202234.zip) | Support of Alternative QoS Profiles (Huawei, Vodafone) | CR0319r1, TS 38.423 v16.1.0, Rel-16, Cat. B |
| [R3-202334](file:///C%3A%5CUsers%5Cssirotki%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107bis-e_agenda_with_Tdocs_20200414_1724.zip%5CDocs%5CR3-202334.zip) | Support of alternative QoS profiles for V2X and handover into congested cells (VODAFONE Group Plc) | discussion |
|  **CB: # 1015\_Email\_V2X\_QoS****- Two sets of CRs on the table, same as before:** **- 2183, 2202, and 2203** **- 2232, 2233, and 2234****- I’m not sure if collecting companies’ views would add much – positions are clear; nevertheless, if the email discussion rapporteur sees the benefit in doing so, he/she is welcome to****- The main task for the email discussion rapporteur would be to see if there is some sort of the middle ground to be found****- You may also attempt to discuss the LS to SA2****- Good luck!**(Nokia)Summary of offline discussion |