3GPP TSG-RAN WG2 Meeting #123bis R2-2311276

Xiamen, China, October 9th – 13th, 2023

Agenda Item: 8.6

Source: Session chair (CMCC)

Title: Report from SON/MDT session

Document for: Approval

**Organizational:**

1. LSs – contact companies should flag LSs that need presenting. Otherwise we will directly note them
2. Running CRs will be endorsed to be used as baseline and moved to email discussion. Further agreements will be captured on that baseline CR.
3. Only Email discussions and summary discussions will be treated during e-meetings (indicated clearly in the meeting notes)
4. All organization emails and notes will be shared over the following email discussion throughout the two meeting weeks:
* [AT123bis][800][SON/MDT] Organizational Hu

Scope:

* + - Share plans for the meetings and list of ongoing email discussions for the sessions related to SON/MDT
		- Share meetings notes and agreements for review and endorsement

650-699

## 5.4 SON MDT support for NR

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; Completed June 20; WID: [RP-191776](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_85/Docs/RP-191776.zip)).

### 5.4.1 General and stage-2 corrections

Including incoming LSs, TS 37.320 corrections

### 5.4.2 TS 38.314 corrections

### 5.4.3 RRC corrections

R2-2310740 CR on Clarification of the ObtainCommonLocation field description Ericsson CR Rel-16 38.331 16.14.0 4346 - F NR\_SON\_MDT-Core

=> Change is correct but not essential.

=> Not pursued

R2-2310741 Mirror CR on Clarification of the ObtainCommonLocation field description Ericsson CR Rel-17 38.331 17.6.0 4347 - A NR\_SON\_MDT-Core

=> Not pursued

## 6.5 SON MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-201281](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_88e/Docs/RP-201281.zip))

Tdoc Limitation: 2 tdocs

### 6.5.1 SON Corrections

R2-2310742 Logging previousPSCellId in case of SCG addition failure Ericsson CR Rel-17 38.331 17.6.0 4348 - F NR\_ENDC\_SON\_MDT\_enh-Core

=> CR is agreed in principle.

R2-2310743 Successful handover report is missing under ObtainCommonLocationInfo Ericsson CR Rel-17 38.331 17.6.0 4349 - F NR\_ENDC\_SON\_MDT\_enh-Core

=> CR is agreed in principle.

### 6.5.2 MDT Corrections

R2-2310363 Corrections on extension of R17 AreaConfiguration CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

=> Noted

R2-2310364 Corrections on extension of AreaConfiguration (Option1) CATT CR Rel-17 38.331 17.6.0 4327 - F NR\_ENDC\_SON\_MDT\_enh-Core

=> Agree with the intention and will be further discussed.

R2-2310526 Correction on delay definitions for split DRB Huawei, HiSilicon CR Rel-17 38.314 17.3.0 0030 - F NR\_ENDC\_SON\_MDT\_enh-Core

=> CR is agreed in principle.

## 7.13 Further enhancement of data collection for SON MDT in NR and EN-DC

(NR\_ENDC\_SON\_MDT\_enh2-Core; leading WG: RAN3; REL-18; WID: [RP-221825](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221825.zip))

Includes LS in’s related to AI/ML for NG-RAN

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

### 7.13.1 Organizational

Ls in Rapporteur input.

R2-2309437 LS on RACH enhancement (R3-234643; contact: Huawei) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

=> Noted

* **[At123bis][651][R18 SON/MDT] Reply LS on RACH enhancement (CMCC)**

Scope: Based on the related agreements draft an Reply LS to RAN3

Output: Approved LS

Deadline: End of afternoon coffee break on Thursday

R2-2309439 Reply LS on SHR and SPR (R3-234716; contact: Huawei) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

=> Noted

R2-2309442 LS on MDT for NPN (R3-234744; contact: Ericsson) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2, SA5

=> Noted

=> The following running CR will be endorsed as baseline for further running:

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R2-2310446 Running CR 38306 for UE capability for R18 SONMDT CATT, Huawei, HiSilicon draftCR Rel-18 38.306 17.6.0 B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310447 Running CR 38331 for UE capability for R18 SONMDT CATT, Huawei, HiSilicon draftCR Rel-18 38.331 17.6.0 B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310496 Running 38.331 CR for logged MDT enhancements and NPN Huawei, HiSilicon draftCR Rel-18 38.331 17.6.0 B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310497 Running 36.331 CR for logged MDT enhancements Huawei, HiSilicon draftCR Rel-18 36.331 17.6.0 B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310498 Discussion on 38.331 issues for NPN Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310508 Running CR 36306 for UE capability for R18 SONMDT Huawei, HiSilicon, CATT draftCR Rel-18 36.306 17.4.0 B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310509 Running CR 36331 for UE capability for R18 SONMDT Huawei, HiSilicon, CATT draftCR Rel-18 36.331 17.6.0 B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310562 Running 36331 CR for SN RACH report ZTE Corporation, Sanechips CR Rel-18 36.331 17.6.0 4960 - B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310563 Running 38.331 CR for SON on RACH report ZTE Corporation, Sanechips CR Rel-18 38.331 17.6.0 4335 - B NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310749 Running CR 36331 for Rel-18 SON MRO Ericsson CR Rel-18 36.331 17.6.0 4943 1 B NR\_ENDC\_SON\_MDT\_enh2-Core R2-2308458

R2-2310750 Running CR 38331 for Rel-18 SON MRO Ericsson CR Rel-18 38.331 17.6.0 4253 1 B NR\_ENDC\_SON\_MDT\_enh2-Core R2-2308459

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R2-2310564 Reply RAN3 LS on RACH enhancements ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310751 List of Open Issues of Rel-18 SONMDT WI Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

=> Noted

### 7.13.2 MRO for inter-system handover for voice fallback

R2-2310744 Discussion on voice fallback HO failure Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

=> Noted

### 7.13.3 MDT override

### 7.13.4 SHR and SPCR

R2-2311520 Pre-meeting summary for 7.13.4 (SHR and SPCR) (Nokia)

=> RAN2 should send a reply LS to RAN3.

Agreements:

1 The target C-RNTI is included in inter-RAT SHR to enable the correlation of the SHR and RLF report.

2 UE should be allowed to store two SPR configurations configured by MN and SN respectively. UE only monitors the SPR configuration configured by the node that initiated the PSCell change.

3 The NW indicates that a PSCell change is MN-initiated or SN-initiated if UE support SPR, and UE includes this information in the SPR.

4 Mechanism (other than indicating it in RRCReconfigurationComplete message) to indicate SPR availability to the network is needed for SRB1.

 FFS offline: For all the following scenarios which SP configuration(s) the UE should clear separately:

• a: At successful PSCellAddition, the UE clears the SPR configuration provided by MN

• b: At successful PSCellAddition, the UE clears the SPR configuration provided by SN. FFS which timer(s)

• c: At successful PSCellChange, the UE clears the SPR configuration provided by MN

• d: At successful PSCellChange, the UE clears the SPR configuration provided by SN

• e: At SCG failure, the UE clears the SPR configuration provided by MN

• f: At SCG failure, the UE clears the SPR configuration provided by SN

• g: At Reconfiguration with synch on PCell, the UE clears the SPR configuration provided by MN

• h: At Reconfiguration with synch on PCell, the UE clears the SPR configuration provided by SN

R2-2309672 Remaining issues on SPR vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2309941 Discussion on inter-RAT SHR from NR to LTE Lenovo discussion Rel-18

R2-2309942 SON enhancements for SPR Lenovo discussion Rel-18

R2-2310365 Further discussion on inter-RAT SHR and SPR CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310422 Remain issues on SPR SHARP Corporation discussion

R2-2310501 Discussion on SHR and SPCR  (RAN3 LS R3-234716) Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310502 Discussion on leftover issues for SHR and SPCR Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310565 Consideration on SHR and SPR remaining issues ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310595 SON/MDT enhancements for Inter-RAT SHR and SPR Samsung discussion

R2-2310615 Clearing SPR configuration Samsung discussion

R2-2310703 SPR configuration and reporting related issues Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310704 Correlation of inter-RAT SHR with RLF Report Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310746 Discussion on inter-RAT SHR and SPR Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2311084 Discussion on successful PSCell change report Qualcomm Incorporated discussion Rel-18

### 7.13.5 SON for NR-U

Focus on UE impacts. RAN2/RAN3 progress should be considered.

R2-2311204 [Post123][558][R18 SON/MDT] SON for NR-U (Ericsson) Ericsson discussion

Proposal 1 Introduce a field to indicate that all preambles transmitted in a selected beam were blocked by LBT. FFS how to set the numberOfPreamblesSentOnSSB-r16/numberOfPreamblesSentOnCSI-RS-r16 and the perRAAttemptInfoList.

Proposal 2 If all preambles transmitted in a selected beam were blocked by LBT, the already agreed “lbtDetected” flag is not included in the perRAInfo.

Proposal 3 All the BWPs (same as for the RA-Report) in which the UE experienced the consistent UL LBT failure, prior the RLF/HOF, are included in the RLF-Report.

Proposal 4 For the HOF, the RSSI measurement results of the serving and neighbouring frequencies should be included in the RLF-Report, if the measRSSI-ReportConfig is configured for those frequencies and if available.

Proposal 5 For the RLF, the RSSI measurement results of the neighbouring frequencies should be included in the RLF-Report, if the measRSSI-ReportConfig is configured for those frequencies and if available.

Proposal 6 RAN2 to further discuss the logging of lbt-FailureRecoveryConfig in RLF Report.

Proposal 7 The RSSI measurements of the serving/neighboring frequencies should be included in the SHR, if the measRSSI-ReportConfig is configured for those frequencies and if available.

Proposal 8 If RAN2 agrees to log the LBT information of the source cell in the SHR, RAN2 to discuss the following options:

a. The UE logs in the SHR the last value of the LBT\_COUNTER (available at MAC layer, see TS 38.321) taken at the moment of executing the HO.

b. The UE includes in the SHR an indication indicating whether consistent UL LBT failures were triggered in the source cell at the moment of executing the HO.

R2-2309943 Discussion on MRO for NR-U Lenovo discussion Rel-18

R2-2310260 SONMDT enhancement for NR-U CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310345 On lbt-FailureRecoveryConfig in RLF-Report Apple discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310366 SON Enhancement for NR-U CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310503 Discussion on leftover issues for SON for NR-U Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310612 SON/MDT enhancements for NR-U Samsung discussion

R2-2311083 Discussion on RA-Report enhancement for NR-U Qualcomm Incorporated discussion Rel-18

R2-2311200 Enhancements of SON reports for NR-U Ericsson discussion

### 7.13.6 RACH enhancement

R2-2311521 Summary of the AI 7.13.6 RACH optimization (Ericsson)

Agreements:

1 Include the slice IDs (S-NSSAIs) that triggered the RA procedure in the RA report.

2 Include a single flag indicating whether the SDT was failed or not.

Proposal 5 RAN2 agree to choose option x based on the three alternatives provided by RAN3 LS (R3-234643).

b. UE logs the RACH partition configuration information i.e., start preamble index and the number of preambles in the partition

c. UE logs time between RACH access that led to the generation of a RA Report and when RA Report was retrieved

R2-2310049 Consideration on the SON enhancements for RACH report Xiaomi discussion Rel-18

R2-2310272 Discussion on RACH Enhancement for SONMDT CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310344 RACH enhancements remaining issues Apple discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310367 RACH enhancement for SON CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310423 Power information in RA report SHARP Corporation discussion

R2-2310428 RA report enhancement for SDT SHARP Corporation discussion

R2-2310434 [Draft] Reply LS on RACH enhancement CMCC LS out Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN3

R2-2310500 Discussion on RACH enhancement (RAN3 LS R3-234643) Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310504 Discussion on leftover issues for RACH enhancement Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310566 Consideration on RACH partitioning enhancements ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310567 Consideration on other RACH enhancements ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310614 SON/MDT enhancements for RACH Samsung discussion

R2-2310649 Discussion on RACH enhancement for SON NEC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310705 Discussion on RACH enhancement for SON and reply LS proposal to R2-2309437/R3-234643 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310748 RA report enhancement Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310792 Discussion on RACH enhancement China Telecom Corporation Ltd. discussion

R2-2311085 Discussion on RA-Report enhancement for RACH partitioning information Qualcomm Incorporated discussion Rel-18

### 7.13.7 SON/MDT enhancements for Non-Public Networks

R2-2310445 Summary of [Post123][559][R18 SONMDT] Open issues of SONMDT for NPN (CATT) CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

For easy agreement

Proposal 4 Consider CEF and RA report enhancements for NPN networks in Rel-18. Similar conclusions should be reached rapidly and repetitive discussions should be avoided.

For online discussion

Proposal 1 RAN2 to discuss whether to introduce CAG-only indication (when the RLF/HOF occurred) into RLF/HOF report.

Proposal 2: For the lost issue of logged MDT report, RAN2 to discuss whether the following is agreeable or not. If not, RAN2 can further discuss the potential solutions listed in the post email discussion.

Not introducing any enhancements to address the loss issue of logged MDT report when UE switches between SNPN and PN. RAN2 to send the decision to RAN3 in the reply LS

Proposal 3 RAN2 to discuss whether to introduce enhancements for OOC analysis involving NPN network.

R2-2311522 Pre-meeting summary of 7.13.7 (Huawei)

For open issues of SONMDT for NPN, there are the following proposals:

Proposal 1a: For OOC analysis involving NPN network (related to P3 in R2-2310445), the following proposal (from R2-2310343) can be discusssed:

Upon T311 timer expiry, if the UE found a cell which would otherwise be suitable, but is not considered so due to NPN restrictions, the UE sets in VarRLF-Report the information about that cell.

Proposal 2: RAN2 to discuss whether ESNPN can be applied to RLF/HOF report besides the Logged MDT:

- Option 1: Limit RLF/HOF record and report to the registered SNPN, one nid is enough;

- Option 2: ESNPN is supported for RLF/HOF report, and separate nid(s) may need in the RLF/HOF report to identify the other part of SNPN IDs for different usage, together with the different PLMN ID part in e.g. previousPCellId-r16, failedPCellId-r16, reconnectCellId-r16 and reestablishmentCellId-r16.

Proposal 3: RAN2 to discuss which and how to report the list of SNPN IDs in the logged MDT report:

- Option 1: Registered SNPN ID in which the RLF/HOF occurred inside each entry of logMeasInfoList;

- Option 2: ESNPN list outside the logMeasInfoList;

- Option 3: All registered SNPN IDs in which the RLF/HOF occurred as a list (without duplication) outside the logMeasInfoList.

Proposal 4: A critical extension (i.e. AreaConfiguration-r18) can be considered in R18 for the PNI-NPN area scope in logged MDT configuration for mistake correction and to cover all configuration possibilities.

Proposal 5: RAN2 should include the 3 cases of cell based/TAI based/SNPN list based SNPN related area scopes in the logged MDT configuration and a critical extension (i.e. AreaConfiguration-r18) can be considered in R18.

For the RAN3 LS [10], there are the following observations and proposals:

Observation 1 RAN2 running CR has implemented changes mirroring RAN3 implementation of PNI-NPN Based MDT and SNPN Based MDT.

Observation 2 In the network provides SNPN cell ID or TAI as part of area configuration, i.e., in “SNPN Cell Based MDT” and “SNPN TAI Based MDT” checking the NID when logging MDT measurement is not needed.

Proposal 6 RAN2 requests RAN3 to revert their implementation on configuring SNPN Cell Based MDT and SNPN TAI Based MDT configuration.

Proposal 7 RAN2 can send a reply LS to RAN3 including RAN2 views.

R2-2310050 Discussion on the SONMDT enhancement for NPN Xiaomi discussion Rel-18

R2-2310261 SONMDT enhancement for NPN CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310343 Out-of-coverage in NP Apple discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310368 SON and MDT Enhancement for NPN CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310505 Discussion on leftover issues for SONMDT enhancements for NPN Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310568 Consideration on SON-MDT support for NPN ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310598 SON/MDT enhancements for NPN Samsung discussion

R2-2310747 SON Support for NPN Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.8 Other

R2-2311523

Fast MCG recovery

Discuss online:

 Proposal 1: UE includes following time information in RLF report for fast MCG link recovery optimization:

 Time between MCG failure (or transmitting MCGFailureInformation, only for case a) and SCG failure for case a and f1 (5/6)

Proposal 2: RAN2 discuss whether below information is needed in RLF report for fast MCG link recovery optimization:

 Time between MCG failure (or transmitting MCGFailureInformation) and SCG deactivation for case f1

 a flag indicating which of the link failures, SCG or MCG failure, happened first in the RLF report.

P2 is only discussed if P1 is agreed, otherwise it can be skipped.

Proposal 3 Upon MCG recovery failure due to SCG failure all possible SCG failure types (that in legacy may be included in the SCGFailureInformation) can be logged as MCG recovery failure cause in the RLF report.

CPAC MRO

Discuss online:

Proposal 6: For CPAC MRO, RAN2 discuss which of below time information is included in SCGFailureInformation:

 The time elapsed between the CPAC execution towards the target PSCell and the corresponding latest CPAC configuration is received for the target PSCell (5)

 The time elapsed since the CPAC execution towards the target PSCell until the SCG failure, reusing existing timeSCGFailure (4)

 None (1)

R2-2309673 Remaining issues on MRO for CPAC vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2309944 SON enhancements for CPAC Lenovo discussion Rel-18

R2-2309945 MRO for fast MCG link recovery Lenovo discussion Rel-18

R2-2310282 SON MDT enhancement for MR-DC CPAC CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310283 MHI Enhancement for SCG Activation/Deactivation CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310369 Discussion on Fast MCG recovery MRO Enhancement CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310370 Discussion on MHI Enhancement for SCG Deactivation/Activation CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310427 Discussion on fast MCG recovery MRO SHARP Corporation discussion

R2-2310499 Report of [Post123][567][R18 SONMDT] Cap of SONMDT  (Huawei) Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310506 Discussion on leftover issues for fast MCG recovery Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310507 Discussion on leftover issues for CPAC MRO Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310569 Consideration on fast MCG recovery and CPAC MRO ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310594 Fast MCG Link Recovery Optimization Samsung discussion

R2-2310706 Improvement of handling of timeConnFailure Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310707 MRO for CPAC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310708 MRO for fast MCG recovery Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310745 Discussion on Fast MCG recovery and SCG failure optimization Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2310756 Discussion on CPAC failure report NTT DOCOMO, INC. discussion

R2-2311087 Discussion on open issues on CPAC MRO and fast MCG recovery failures Qualcomm Incorporated discussion Rel-18