3GPP TSG-RAN WG2 Meeting #110 R2-2005736

**Electronic, June 1 – June 12 2020**

Agenda Item: 8.6

Source: Session chair (CMCC)

Title: Report from SON/MDT session

Document for: Approval

Recording of voice or video at meetings is not used in 3GPP. This applies also to this e-Meeting. At this e-Meeting, no specific actions are taken to prevent the recording of web conferences. Companies that have concerns related to recordings, if any, may express those by email in the main meeting organizational thread [AT109e][000]

**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:

* [AT110][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

## 6.12 SON/MDT support for NR

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; target; Mar 20; WID: RP-191776). Documents in this agenda item will be handled in a break out session

Time budget: 1 TU

No new additional function will be treated this meeting except the request is from RAN3.

### 6.12.1 Organisational

Including incoming LSs

The following LSs have no action for RAN2:

R2-2004303 Reply LS on QoS monitoring for URLLC (R3-201372; contact: Intel) RAN3 LS in Rel-16 NR\_SON\_MDT To:SA5, SA2 Cc:RAN2, SA1, CT4

R2-2004304 LS on removal of Management Based MDT Allowed IE for NR (R3-201437; contact: Qualcomm) RAN3 LS in Rel-16 NR\_SON\_MDT To:RAN2, SA5

R2-2004308 Reply to LS to SA5 on trace related configurations for NR MDT (S5-201424; contact: Ericsson) SA5 LS in Rel-17 To:RAN2

R2-2004309 LS on the status update of the SON support for NR works (S5-201525; contact: Intel) SA5 LS in Rel-16 To:RAN2, RAN3

R2-2004320 Reply LS on QoS Monitoring for URLLC (S2-2003468; contact: Huawei) SA2 LS in Rel-16 5G\_URLLC To:RAN3 Cc:SA5, RAN2

R2-2004327 Reply LS on the feasibility of Received Interference Power measurement (R1-2002932; contact: Huawei) RAN1 LS in Rel-16 NR\_SON\_MDT-Core To:RAN2

R2-2004331 Reply LS on the status update of the SON support for NR works (R3-202630; contact: CMCC) RAN3 LS in Rel-16 NR\_SON\_MDT To:SA5 Cc:RAN2

R2-2004379 Reply LS to LS on EN-DC related MDT configuration details (S5-202052; contact: Ericsson) SA5 LS in Rel-16 5GMDT To:RAN2 Cc:RAN3

R2-2004729 [Draft] Response LS on the status update of the SON support for NR works Intel Corporation LS out Rel-16 NR\_SON\_MDT-Core To:SA5 Cc:RAN3

R2-2005454 [Draft] Reply LS on MDT Configuration CMCC LS out Rel-16 NR\_SON\_MDT-Core To:RAN3

The related issues included in the following LSs will be handled in 6.12.2

R2-2004334 LS on information needed for MRO in UE RLF Report (R3-202818; contact: Samsung) RAN3 LS in Rel-16 NR\_SON\_MDT-Core To:RAN2

R2-2004339 Propagation of immediate MDT configuration in case of Xn inter-RAT HO (R3-202868; contact: ZTE) RAN3 LS in Rel-16 NR\_SON\_MDT-Core To:RAN2

R2-2004340 LS on Logged MDT Status (R3-202869; contact: Ericsson) RAN3 LS in Rel-16 NR\_SON\_MDT-Core To:RAN2

The following two dicuments will be treated online:

R2-2005367 Corrections on MDT and SON in NR Huawei, Ericsson, HiSilicon CR Rel-16 38.331 16.0.0 1669 - F NR\_SON\_MDT-Core

???=> Endorsed and used as baseline for further updating???

R2-2005368 Corrections on MDT and SON Huawei, Ericsson, HiSilicon CR Rel-16 36.331 16.0.0 4323 - F NR\_SON\_MDT-Core

???=> Endorsed and used as baseline for further updating???

### 6.12.2 Essential input from RAN3

Focus on the request from R3-202818, R3-202869 and R3-202868. Discuss the TS changes to fulfill the agreements of RAN3. Discussion tdoc should be with an annex TP. For each company, only one contribution is allowed. Encourage interested companies combine and converge their work into one contribution.

R2-2004412 Discussion on RAN3 related concerns on MDT ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

R2-2004413 Further Considerations and Modifications on MRO in UE RLF Report CATT, CMCC discussion Rel-16 NR\_SON\_MDT-Core

R2-2004503 TP on Management and signalling based MDT vivo draftCR Rel-16 37.320 16.0.0 NR\_SON\_MDT-Core

R2-2004716 On RAN3 related concerns Ericsson discussion

R2-2005197 Signaling based MDT priority in EN-DC Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2005198 Draft LS on Signalling based MDT priority in DC Nokia, Nokia Shanghai Bell CR Rel-16 37.320 16.0.0 0084 - F NR\_SON\_MDT Withdrawn

R2-2005225 Draft LS on Signalling based MDT priority in DC Nokia, Nokia Shanghai Bell LS out Rel-16 NR\_SON\_MDT-Core To:RAN3, SA5

R2-2005369 Discussion on incoming RAN3 LSs Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005455 Propagation of MDT configuration in case of Xn inter-RAT HO CMCC discussion Rel-16 NR\_SON\_MDT-Core

The following two documents will be treated online:

R2-2004724 [Post109bis-e][961][MDTSON] SON open issues (Ericsson) Ericsson discussion

R2-2006006 Summary of AI 6.12.2 - Essential input from RAN3 Ericsson discussion

### 6.12.3 TS37320 corrections

Each company, including the rapporteur, at most one contribution for this agenda. Encourage to contact 37.320 editor (Nokia) and WI rapporteur (CMCC) first. In general, the documents will be treated from guidance of them.

R2-2004414 Miscellaneous Corrections for 37.320 CATT discussion Rel-16 37.320 NR\_SON\_MDT-Core

R2-2004673 Handling of management-based MDT and signalling based MDT QUALCOMM Europe Inc. - Spain discussion Rel-16

R2-2004674 Remaining issues on L2 measurement QUALCOMM Europe Inc. - Spain discussion Rel-16

R2-2004713 Corrections to TS 37.320 Ericsson discussion

R2-2005370 Minor issues on TS 37.320 Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005453 CR to 37.320 CMCC, Nokia, Nokia Shanghai Bell CR Rel-16 37.320 16.0.0 0085 - B NR\_SON\_MDT-Core

R2-2005467 Correction to TS 37.320 on MDT configuration ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

Try to discuss this online:

R2-2006002 Summary of Corrections for 37.320

### 6.12.4 ASN1 review

For RRC corrections: The proponent company, for accepted RIL issues, if needed, can provide a discussion doc, with an annex TP. Minor issues are expected to be resolved in RRC email discussions without any tdoc (before or during meeting). RRC Rapporteur (Huawei and Ericsson) will classify which RIL issues needs contributions (discussion + TP) based on the outcome of the email discussions related to RIL and SON issues. For those RIL issues that the RRC rapporteur thinks that a disc+TP paper is required then the original proponent of that issue can produce the corresponding contribution.

R2-2004409 [Z162-Z166] Correction to connection establishment failure report ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core Late

R2-2004410 [Z167][Z169] Correction to RLF report ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

R2-2004411 [Z170-171][Z173] Correction to RACH report ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

R2-2004417 Corrections on Sensor Measurement CATT discussion Rel-16 38.331 NR\_SON\_MDT-Core

R2-2004528 Corrections to RA/RLF Report\_S951\_S952 Samsung Electronics Co., Ltd discussion Rel-16 NR\_SON\_MDT-Core

R2-2004717 [E008] On adding LBTFailure as SCG Failure cause and RLF cause Ericsson discussion

R2-2004718 [E009] On EUTRA previousPCellID in NR RLF report Ericsson discussion

R2-2004719 [E012] On logging TAC in CEF report Ericsson discussion

R2-2004720 [E021] Any cell selection state related logging for OOC event Ericsson discussion

R2-2004721 [E028] On SON-MDT related UE capabilities addition Ericsson discussion

R2-2004722 [E200] On T312 expiry related RLF cause Ericsson discussion

R2-2004723 [E235] UE power savings impact on MDT Ericsson, CMCC, Samsung discussion

R2-2004733 Clarification to RA-report purposes Ericsson discussion

R2-2004884 [S953] Mobility state reporting in RRC connection re-establishment Samsung Electronics Co., Ltd discussion Rel-16 NR\_SON\_MDT-Core

R2-2004886 [S954] Logged MDT configuration in UE Inactive AS Context Samsung Electronics Co., Ltd discussion Rel-16 NR\_SON\_MDT-Core

R2-2004902 Text Proposal\_for\_RIL\_S481 Samsung Electronics Co., Ltd discussion Rel-16 NR\_SON\_MDT-Core

R2-2005372 [H363] Discussion on UE logging of a MDT entry Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005373 [H365] Discussion on conditions for RLF report Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005374 [H366] Discussion on processing delay requirements Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005375 [H367] Discussion on failedPcellId-EUTRA Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005376 [H368] Discussion on measResult-RLF-Report-EUTRA Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005377 [H369][H370] Discussion on corrections of TAC Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005378 [H371] Discussion on applying the field interFreqTargetList Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005416 Correction on MDT Configuration [S959] Samsung discussion NR\_SON\_MDT-Core

R2-2005468 TP on cat-a proposal2/3 of SON emailDisc[961] ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core Late

R2-2005469 [Z168][Z172] Alignment of RA informatiom ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

The following two documents will be treated:

R2-2005371 Summary of [Post109bis-e][960] ASN1 RIL discussion Huawei discussion Rel-16 NR\_SON\_MDT-Core Late

R2-2006015 Summary on ASN1 review Huawei

### 6.12.5 TS 38314 corrections

Discussion tdoc should be with an annex TP. For each company, only one contribution is allowed

R2-2004415 Consideration on UL Packet Delay CATT discussion Rel-16 38.314 NR\_SON\_MDT-Core

R2-2004714 Corrections to TS 38.314 Ericsson discussion

R2-2004789 Remaining issues for Number of active UEs NTTDOCOMO, INC. discussion

R2-2005379 Minor issues on TS 38.314 Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2005433 Summary of AI 6.12.5 L2 measurements CMCC discussion Rel-16 NR\_SON\_MDT-Core Late

R2-2005434 draft TS 38.314 CMCC draft TS Rel-16 38.314 0.3.0 NR\_SON\_MDT-Core

R2-2005470 Remianing issues on L2 measurement ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

R2-2005433 Summary of AI 6.12.5 L2 measurements

* [AT110-e][801] L2 measurements (CMCC)

Scope: Based on R2-2005433 and Progress related issues

Intended outcome: Summary of the offline discussion with e.g.:

§  Set of proposals with full consensus, if any (agreeable over email)

§  Set of proposals to discuss in the follow up conference call

Deadline: Wednesday 2020-06-04 10:00 UTC

Status: started

### 6.12.6 UE capabilities

No contribution is allowed for this agenda for any company except rapporteur,. The discussion will be based on rapporteur’s input.

R2-2004504 Running CR to 38.306 for NR\_SON\_MDT vivo, CMCC draftCR Rel-16 38.306 16.0.0 NR\_SON\_MDT-Core

R2-2004505 Running CR to 38.306 for NR\_SON\_MDT vivo, CMCC draftCR Rel-16 38.306 16.0.0 NR\_SON\_MDT-Core

R2-2005435 UE feature list introduction for NR SON/MDT WI CMCC CR Rel-16 38.822 15.0.1 0003 - B NR\_SON\_MDT-Core

* [AT110-e][802] UE capabilities (CMCC, vivo)

Scope: Based on the running 38.306CR and 38.822CR and agreements we made in RAN2#108 agreements on SON/MDT related agreements shall be strictly obeyed.

Intended outcome: Agreeable CRs

Deadline: Wednesday 2020-06-08 10:00 UTC

Status: started

Email discussions after the meeting: