3GPP TSG-RAN WG2 Meeting #131 R2-2506206

Bangalore, India Aug 25th – 29th, 2025

Source: Session Chair (Ericsson)

Title: Report from session on maintenance and SON/MDT

Agenda item: 9.6

* [AT131][600] Organizational – Maintenance and SON/MDT (Ericsson)

Scope:

* + - Share plans for the meeting and list of ongoing email discussions
    - Share meetings notes and agreements for review and endorsement
    - Flag LSs and agreed CRs for discussion

      Intended outcome:

* + - General information sharing about the sessions

# 4 EUTRA Rel-17 and earlier

Only essential corrections. No documents should be submitted to 4. Please submit to 4.x

## 4.1 EUTRA corrections Rel-17 and earlier

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: [RP-211340](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211340.zip))

(UPIP\_EN-DC\_UE; leading WG: RAN3; REL-17; WID: [RP‑213669](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_94e/Docs/RP-213669.zip))

(LTE TEI17)

Essential corrections to LTE Rel-17 topics not covered by other agenda items.

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: [RP-200293](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200293.zip)); REL-15 and Earlier NB-IoT WIs are in scope but not listed explicitly (long list).

(LTE\_eMTC5-Core; LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: [RP-192875](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_86/Docs//RP-192875.zip);), REL-15 and Earlier eMTC WIs are in scope but not listed explicitly (long list).

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed: June 20; WID: [RP-190921](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_84/Docs//RP-190921.zip));

(LTE\_terr\_bcast-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_high\_speed\_enh2-Core; LTE TEI16 Non-positioning);

(LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; WID: [RP-211601](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211601.zip))

REL-16 and Earlier EUTRA WIs are in scope but not listed explicitly (long list), Except Positioning WI, which is addressed by AIs below.

NOTE that LTE corrections related to NR WIs or Joint NR LTE WIs should be submitted to NR AIs below.

NOTE that LTE corrections which are the same as an NR correction should be submitted to the respective NR AI (so the NR CR and LTE CR can be treated together).

This Agenda Item is treated in the Maintenance Breakout session (Corrections for LTE\_NBIOT\_eMTC\_NTN might be treated in the NTN breakout session)

Mobility

[R2-2505202](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505202.zip) Correction on LTE RLF report logging CATT CR Rel-16 36.331 16.20.0 5134 - F LTE\_feMob-Core

[R2-2505203](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505203.zip) Correction on LTE RLF report logging CATT CR Rel-17 36.331 17.13.0 5135 - A LTE\_feMob-Core

[R2-2505204](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505204.zip) Correction on LTE RLF report logging CATT CR Rel-18 36.331 18.6.0 5136 - A LTE\_feMob-Core

- Xiaomi agrees that we have a similar sentence in NR, but why not use exactly the same? CATT has no strong view but clarifies that CATT used the LTE style for this sentence.

- Ericsson wonders if this is a correction of an enhancement? Samsung think this is an enhancement. Samsung suggests Cat B. CATT thinks its not a Cat B. Huawei think it’s a Cat F since the underlying feature was there before. Ericsson is OK with Cat F.

* Tick the RAN box, with this they are agreed unseen in R2-2506351, R2-2506352 and R2-2506353

MBMS

[R2-2505700](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505700.zip) Correction on MBMS Interest Indication Samsung, Nokia, Ericsson, Qualcomm Incorporated, ZTE CR Rel-18 36.331 18.6.0 5125 1 F LTE\_terr\_bcast-Core, TEI18 [R2-2504325](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_130/Docs//R2-2504325.zip)

- Some of the added text is underlined.

* Remove underlining from the text, with this the CR is agreed unseen in R2-2506354.

Latency Reduction

[R2-2506025](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506025.zip) Correction on UL spatial multiplexing ASUSTeK CR Rel-17 36.321 17.7.0 1595 - F TEI17, LTE\_LATRED\_L2-Core

[R2-2506026](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506026.zip) Correction on UL spatial multiplexing ASUSTeK CR Rel-18 36.321 18.4.0 1596 - A TEI17, LTE\_LATRED\_L2-Core

- Lenovo asks why change from Rel-17, the feature was added in Rel-14? AsusTek thinks is too late to change that far back, AsusTek can consider Rel-18.

- Lenovo thinks its correct but not essential and can consider Rel-18.

* Rel-18 CR is agreed unseen in R2-2506374, but cat F.

NTN – To be handled in Sergio’s session

[R2-2505881](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505881.zip) Clarification on UTC time offset in IoT NTN ZTE Corporation, Sanechips CR Rel-17 36.331 17.13.0 5145 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2505886](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505886.zip) Clarification on UTC time offset in IoT NTN ZTE Corporation, Sanechips CR Rel-18 36.331 18.6.0 5146 - A LTE\_NBIOT\_eMTC\_NTN-Core

## 4.3 Positioning corrections Rel-16 and earlier

(LTE\_NavIC-Core, LTE TEI16 Positioning), REL-15 and Earlier WIs related to positioning are in scope but not listed explicitly (long list).

Tdoc Limitation: 1 tdoc

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 4 Tdocs in total for agenda item 5 (incl. its sub agenda items) and agenda item 6 (incl. its sub agenda items)

In case a correction need to be reflected in both NR TS and LTE TS, the corrections should be submitted under one single AI (so the NR and LTE correction can be treated together), the sub-Ais below this

## 5.1 Common

Includes the following WIs and input that doesn’t fit elsewhere.

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: [RP-191971](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_85/Docs//RP-191971.zip))

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: [RP-200840](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-200840.zip))

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; Closed June 20; WID: [RP-192926](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_86/Docs//RP-192926.zip)).

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; Completed: Jun 20; WID: [RP-200797](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-200797.zip))

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; Completed Jun 20; WID: [RP-200494](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200494.zip)).

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; Completed: June 20; WID: [RP-200085](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200085.zip)).

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: [RP-190713](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_83/Docs//RP-190713.zip))

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: [RP-191088](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_84/Docs//RP-191088.zip))

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: [RP-200122](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200122.zip))

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: [RP-200474](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200474.zip))

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: [RP-191997](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_85/Docs//RP-191997.zip))

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: [RP-191584](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_84/Docs//RP-191584.zip))

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Target Aug 20; WI [RP-200791](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-200791.zip))

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: [RP-192277](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_85/Docs//RP-192277.zip)).

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

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; completed; Aug 20; WID: [RP-200129](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200129.zip))

(NR\_HST, NR\_RRM\_enh-Core, NR\_RF\_FR1, NR\_RF\_FR2\_req\_enh, NR\_n66\_BW, LTE\_NR\_B41\_Bn41\_PC29dBm-Core, NR\_CSIRS\_L3meas,)

(NR TEI16)

LTE mob enh corrections that are common with NR mobility enhancements should be submitted to this AI.

### 5.1.1 Stage 2 and Organisational

Incoming LSs, etc. You should discuss your stage 2 CRs with the specification rapporteurs before submission. Includes impact to 38.300, 36.300, 37.340

[R2-2505049](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505049.zip) LS on mandatory gaps capability ([R4-2508379](https://www.3gpp.org/ftp//tsg_ran/WG4_Radio/TSGR4_115/Docs//R4-2508379.zip); contact: Ericsson) RAN4 LS in Rel-16 NR\_RRM\_enh-Core To:RAN2

* Noted

### 5.1.3 Control Plane corrections

#### 5.1.3.1 NR RRC

Corrections to 38331, and related change to other TS if applicable, e.g. 36331, Stage-2 etc.

SON/MDT

[R2-2505288](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505288.zip) Discussion on tracking area code information in SON reports ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core, NR\_ENDC\_SON\_MDT\_enh-Core, NR\_ENDC\_SON\_MDT\_enh2-Core

Proposal 1: Correct since Rel-16, that when cellId in RA report is set to CGI, the TAC is logged only when available and agrees on the TP included in Annex for P1.

Proposal 2a: Correct since Rel-17, that if the UE logs sourcePCellID in SHR, it shall be set to the global cell identity and tracking area code of the source PCell. i.e., remove the ‘if available’ from the procedure text when setting sourcePCellID in SHR.

Proposal 2b: Correct since Rel-18, that if the UE logs pCellId in SRP, it shall be set to the global cell identity and tracking area code of the PCell, i.e., remove the ‘if available’ from the procedure text when setting pCellId in SPR.

Proposal 3: Correct since Rel-18, that when sourcePSCellId and targetPSCellId in SPR report are set to CGI, the TAC is logged only when available.

Proposal 4: If P1-P3 are agreed, RAN2 discusses and agrees on the TPs provided in Annex.

- Huawei agrees with the intention of P1, but think current spec is already clear. Nokia think the proposal does not impact the network, only the UE. Nokia thinks that the spec is perhaps a bit ambiguous but not wrong. Nokia is neutral since it doesn’t impact the network. Samsung think the intention is correct but the current spec is also fine as-is. Samsung has not seen any issues. ZTE think the spec is unclear and there might be a risk for misunderstanding, but no errors hve been spotted in the field. Xiaomi does not think current spec is not wrong. Qualcomm think the risk if misunderstanding is not high, and if we keep on doing this exercise (i.e. polishing the specs) we will keep on forever, Qualcomm therefore would not like to do this change.

* Noted

[R2-2506074](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506074.zip) Correction on previousPCellId in RLF report Huawei, HiSilicon, CATT, CMCC CR Rel-16 38.331 16.20.0 5451 - F NR\_SON\_MDT-Core

[R2-2506075](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506075.zip) Correction on previousPCellId in RLF report Huawei, HiSilicon, CATT, CMCC CR Rel-17 38.331 17.13.0 5452 - A NR\_SON\_MDT-Core

[R2-2506076](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506076.zip) Correction on previousPCellId in RLF report Huawei, HiSilicon, CATT, CMCC CR Rel-18 38.331 18.6.0 5453 - A NR\_SON\_MDT-Core

- Samsung think that for the first change we should not refer to LTE messages in the NR spec but instead talk about mobilityFromNR. Ericsson agrees with Samsung. Huawei is OK to improve the wording in this way. ZTE points out that the CR is all in portrait layout and this should be fixed.

* [AT131][602][Maint] Correction on previousPCellId in RLF report (Huawei)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs

      Intended outcome:

* + - Agreed CR(s) in R2-2506355, R2-2506356, R2-2506357

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.

[R2-2506355](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506355.zip) Correction on previousPCellId in RLF report Huawei, HiSilicon, CATT, CMCC CR Rel-16 38.331 16.20.0 5451 1 F NR\_SON\_MDT-Core

[R2-2506356](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506356.zip) Correction on previousPCellId in RLF report Huawei, HiSilicon, CATT, CMCC CR Rel-17 38.331 17.13.0 5452 1 A NR\_SON\_MDT-Core

[R2-2506357](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506357.zip) Correction on previousPCellId in RLF report Huawei, HiSilicon, CATT, CMCC CR Rel-18 38.331 18.6.0 5453 1 A NR\_SON\_MDT-Core

* All 3 are agreed

RRC procedure delay

[R2-2505734](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505734.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-15 38.331 15.29.0 5432 - F NR\_newRAT-Core

[R2-2505735](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505735.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-16 38.331 16.20.0 5433 - A NR\_newRAT-Core

[R2-2505743](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505743.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-17 38.331 17.13.0 5434 - A NR\_newRAT-Core

[R2-2505745](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505745.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-18 38.331 18.6.0 5436 - A NR\_newRAT-Core

- Nokia are unsure if this is necessary, but its important to understand how companies really interpret this sentence. CATT doesn’t think this is necessary. Docomo think the CR is correct and think that we should not talk about these processing delays in RAN2 specs. Qualcomm sees misalignment between RAN2 and RAN4 specs, but the CR is not correct and instead we can just remove this sentence completely. Ericsson think the RAN4 requirement is clear from their specs and either can do as Samsung but also removing the sentence completely is OK. Xiaomi are OK to remove the sentence. Nokia are OK to remove. Huawei also want to remove.

- Nokia prefers to change from R18. Samsung wants to remove all specs (from Rel-15) since otherwise it seems that there is different behaviour in different releases. Xiaomi prefers to do this only from Rel-18.

* Update the CR to remove the sentence. We do this clarification from Rel-18.
* [AT131][603][Maint] Clarification on RRC procedure delay for BWP switching (Samsung)

Scope:

* + - Produce agreeable CR

      Intended outcome:

* + - Agreed CR(s) in R2-2506358

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.

[R2-2506358](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506358.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-18 38.331 18.6.0 5436 1 A NR\_newRAT-Core

* Agreed

MIMO

[R2-2506120](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506120.zip) Clarification of releasing elements from Rel-16 PUCCH Spatial Relation Info List ZTE Corporation CR Rel-16 38.331 16.20.0 5459 - F NR\_eMIMO-Core

[R2-2506121](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506121.zip) Clarification of releasing elements from Rel-16 PUCCH Spatial Relation Info List ZTE Corporation CR Rel-17 38.331 17.13.0 5460 - A NR\_eMIMO-Core

[R2-2506122](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506122.zip) Clarification of releasing elements from Rel-16 PUCCH Spatial Relation Info List ZTE Corporation CR Rel-18 38.331 18.6.0 5461 - A NR\_eMIMO-Core

[R2-2506124](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506124.zip) Summary Report of [Post130][602][Maint] Spatial Relation Info list extension (ZTE)\_Summary ZTE Corporation discussion Rel-16 NR\_eMIMO-Core

- The email discussion rapporteur (ZTE) requested to discuss this offline during the week.

* [AT131][601][Maint] Spatial Relation Info list extension (ZTE)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs if needed

      Intended outcome:

* + - Agreed CR(s)

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email if possible, otherwise we come back in the Thursday comeback session.

[R2-2506453](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506453.zip) Summary Report of [AT131][601][Maint] Spatial Relation Info list extension (ZTE)

Proposal 1 (easy agreement): RAN2 clarifies that “If the network includes spatialRelationInfoToAddModListExt in a RRCReconfiguration message, it shall include the same number of entries, and listed in the same order, as in the concatenation of included spatialRelationInfoToAddModList and included spatialRelationInfoToAddModListSizeExt in the same message”. No spec change is needed.

Proposal 2(easy agreement): In the case where there are 8 entries have already been created by the patialRelationInfoToAddModList (i.e.Rel-15 ToAddModlist), it is allowed for NW to use the spatialRelationInfoToAddModList alone for adding more elements if the available Id of the added entry is no more than 8, or together with spatialRelationInfoToAddModListExt if the available Id of the added entry is greater than 8. No spec change is needed.

Proposal 3(Easy Agreement): RAN2 confirms that an entry created using spatialRelationInfoToAddModList can be modified using spatialRelationInfoToAddModListSizeExt, and vise versa. No spec change is needed.

Proposal 5(Easy Agreement): RAN2 clarifies that the PUCCH-SpatialRelationInfoId-r16 is considered as the same as pucch-SpatialRelationInfoId or pucch-SpatialRelationInfoId-v1610 when UE receiving the spatialRelationInfoToReleaseListExt-v1610. No spec change is needed.

|  |
| --- |
| **Agreements**   1. RAN2 confirms that if the network includes spatialRelationInfoToAddModListExt in a RRCReconfiguration message, it shall include the same number of entries, and listed in the same order, as in the concatenation of included spatialRelationInfoToAddModList and included spatialRelationInfoToAddModListSizeExt in the same message. No spec change is needed. 2. RAN2 confirms that in case where 8 entries have already been added by the spatialRelationInfoToAddModList (i.e. the Rel-15 ToAddModlist), it is allowed for NW to use the spatialRelationInfoToAddModList alone for adding more elements if the Id of the added entry is not greater than 8, or together with spatialRelationInfoToAddModListExt if the Id of the added entry is greater than 8. No spec change is needed. 3. RAN2 confirms that an entry created using spatialRelationInfoToAddModList can be modified using spatialRelationInfoToAddModListSizeExt, and vice versa. No spec change is needed. 4. RAN2 confirms that the PUCCH-SpatialRelationInfoId-r16 is considered the same as pucch-SpatialRelationInfoId and pucch-SpatialRelationInfoId-v1610 when the UE receives the spatialRelationInfoToReleaseListExt-v1610. No spec change is needed. |

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

SCellWithoutSSB

[R2-2505465](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505465.zip) Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE Corporation, Sanechips, Nokia, Huawei, HiSilicon CR Rel-15 38.306 15.28.0 1327 - F NR\_newRAT-Core

[R2-2505466](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505466.zip) Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE Corporation, Sanechips, Nokia, Huawei, HiSilicon CR Rel-16 38.306 16.21.0 1328 - A NR\_newRAT-Core

[R2-2505467](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505467.zip) Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE Corporation, Sanechips, Nokia, Huawei, HiSilicon CR Rel-17 38.306 17.13.0 1329 - A NR\_newRAT-Core

- ZTE clarifies that a separate capability might be needed for FR2/FR1. Lenovo think that since this is a per UE capa it should say “No” rather than “N/A”. ZTE did the same for SCell without SSB-capa. Nokia thinks it should be “No”.

- ZTE thinks that Rel-18 can be discussed later if needed.

- After further offline, ZTE indicates that it might be needed to create a Rel-18 CR together and hence want to discuss this further offline during this meeting.

* [AT131][604][Maint] Correction on intraF-NeighMeasForSCellWithoutSSB (ZTE)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs

      Intended outcome:

* + - Agreed CR(s) in R2-2506359, R2-2506360, R2-2506361, R2-2506362

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.

[R2-2506359](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506359.zip) Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE Corporation, Sanechips , Nokia, Huawei , HiSilicon CR Rel-15 38.306 15.28.0 1327 1 F NR\_newRAT-Core

[R2-2506360](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506360.zip) Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE Corporation, Sanechips , Nokia, Huawei , HiSilicon CR Rel-16 38.306 16.21.0 1328 1 A NR\_newRAT-Core

[R2-2506361](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506361.zip) Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE Corporation, Sanechips , Nokia, Huawei , HiSilicon CR Rel-17 38.306 17.13.0 1329 1 A NR\_newRAT-Core

[R2-2506362](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506362.zip) Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE Corporation, Sanechips , Nokia, Huawei , HiSilicon CR Rel-17 38.306 18.6.0 1345 - A NR\_newRAT-Core, Netw\_Energy\_NR-Core

* All 4 are agreed

Mandatory gaps

[R2-2506138](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506138.zip) Discussion on R16 mandatory gap capability ZTE Corporation, Sanechips discussion Rel-16 NR\_RRM\_enh-Core

[R2-2505112](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505112.zip) Discussion on R4 LS on Mandatory Gap Capability OPPO discussion Rel-16 NR\_RRM\_enh-Core

- Qualcomm thinks that unless there is a legacy UE issue, we think we shouldn’t update the specs as RAN4 requested. Ericsson understands but think that RAN4 already discussed this so it makes sense that RAN2 follows the RAN4 outcome. Xiaomi agrees with ZTE and Qualcomm. Samsung think there could be a UE that has issues. ZTE clarifies that there have been problematic UEs in the field.

- Nokia think we can capture something in the minutes. Ericsson think we need to clarify something at least. Huawei are OK to capture something in the minutes. Ericsson think we already have minutes from RAN4 and think that we should do a spec change now. Xiaomi think we can capture in the minutes that the UE shall set R15 and R16 capas consistently. Ericsson think we cannot capture mandatory behaviours in minutes. Xiaomi think we might need to change more places if we do this change. Nokia agrees with Xiaomi but think we should just have a suggestion in the minutes. Samsung are OK with capturing in the minutes.

* RAN2 understands that the UE should set the supportedGapPattern and supportedGapPattern-NRonly-r16 consistently in the sense that the UE does not indicate support for a gap pattern in the Rel-15 field but indicates non-support in the Rel-16 field.

[R2-2505809](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505809.zip) Correction to supportedGapPattern-NRonly-r16 Ericsson CR Rel-16 38.306 16.21.0 1335 - F NR\_RRM\_enh-Core

[R2-2505810](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505810.zip) Correction to supportedGapPattern-NRonly-r16 Ericsson CR Rel-17 38.306 17.13.0 1336 - A NR\_RRM\_enh-Core

[R2-2505811](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505811.zip) Correction to supportedGapPattern-NRonly-r16 Ericsson CR Rel-18 38.306 18.6.0 1337 - A NR\_RRM\_enh-Core

[R2-2506145](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506145.zip) Correction to supported gap patterns Huawei, HiSilicon CR Rel-16 38.306 16.21.0 1342 - F NR\_RRM\_enh-Core

[R2-2506146](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506146.zip) Correction to supported gap patterns Huawei, HiSilicon CR Rel-17 38.306 17.13.0 1343 - A NR\_RRM\_enh-Core

[R2-2506147](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506147.zip) Correction to supported gap patterns Huawei, HiSilicon CR Rel-18 38.306 18.6.0 1344 - A NR\_RRM\_enh-Core

* The 6 above are not pursued

#### 5.1.3.3 Other

This agenda item addresses the idle and inactive behaviour specified in 38.304 or 36.304, LTE-specific changes for the applicable WIs, Other parts not covered elsewhere.

# 6 NR Rel-17

Essential corrections only. Editorial/clarifications should be sent to be reviewed and approved by spec rapporteurs prior to submission. Editorials should only be submitted by spec rapporteurs.

Tdoc Limitation: 4 Tdocs in total for agenda item 5 (incl. its sub agenda items) and agenda item 6 (incl. its sub agenda items)

## 6.1 Common

(NR\_MG\_enh-Core; leading WG: RAN4; REL-17; WID: [RP-211591](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211591.zip))

(NR\_UDC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-211203](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211203.zip))

(NG\_RAN\_PRN\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-202363](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_90e/Docs//RP-202363.zip))

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-211548](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211548.zip))

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-212630](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212630.zip))

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: [RP-201040](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-201040.zip))

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: [RP-212610](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212610.zip))

(NR\_Slice-Core; leading WG: RAN2; REL-17; WID: [RP-212534](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212534.zip))

(NR\_QoE-Core; leading WG: RAN3; REL-17; WID: [RP-211406](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211406.zip))

(NR\_ext\_to\_71GHz-Core; leading WG: RAN1; REL-17; WID: [RP-212637](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212637.zip))

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-211566](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211566.zip)): non-RACH-indication parts

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: [RP-211574](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211574.zip))

(NR\_feMIMO-Core; leading WG: RAN1; REL-17; WID: [RP-212535](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212535.zip))

(NR\_SmallData\_INACTIVE-Core, leading WG: RAN2; REL-17; WID: [RP-212594](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212594.zip))

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-210854](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_91e/Docs//RP-210854.zip))

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: [RP-201038](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-201038.zip))

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

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-211557](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211557.zip))

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-202846](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_90e/Docs//RP-202846.zip))

(NR\_SL\_Relay-Core; leading WG: RAN2; REL-17; WID: [RP-212601](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212601.zip))

PRACH partitioning items

(NR TEI17)

Includes Rel-17 Work Items without specific R2 Agenda Item, e.g. RAN1 and RAN4 led items, SA2 and CT1 led items (was previously “Rel-17 Other”)

Includes aspects that does not fit under the more specific AIs, e.g. multi-WI aspects.

Corrections for NR\_NTN\_solutions-Core might be treated in the NTN breakout session.

### 6.1.1 Stage 2 and Organisational

Incoming LSs, etc. You should discuss your stage 2 CRs with the specification rapporteurs before submission. Includes impact to 38.300, 37.340, (36.300 if applicable)

Paging capabilities

[R2-2505062](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505062.zip) Reply LS on Handling of UE Radio Capability for Paging ([S2-2506082](https://www.3gpp.org/ftp//tsg_sa/WG2_Arch/TSGS2_169_Fukuoka_2025-05/Docs//S2-2506082.zip); contact: Ericsson) SA2 LS in Rel-17 NR\_newRAT-Core, 5GS\_Ph1, TEI17 To:RAN3 Cc:RAN2

* Noted

Emergency

[R2-2505060](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505060.zip) Reply LS on emergency call back and paging ([S2-2505938](https://www.3gpp.org/ftp//tsg_sa/WG2_Arch/TSGS2_169_Fukuoka_2025-05/Docs//S2-2505938.zip); contact: Qualcomm) SA2 LS in Rel-17 NR\_newRAT-Core, NR\_redcap-Core To:RAN3 Cc:RAN2, CT1, RAN

- Qualcomm suggest noting the LS without action

* Noted

[R2-2505854](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505854.zip) Clarification on eDRX and emer+gency PDU session Ericsson CR Rel-18 38.300 18.6.0 1018 - A NR\_redcap-Core

[R2-2505865](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505865.zip) Clarification on eDRX and emergency PDU session Ericsson CR Rel-17 38.300 17.13.0 1019 - F NR\_redcap-Core

- ZTE think there are similar CRs in RAN3 and they discuss there, there is an offline there today.

- ZTE understands the motivation but think the CR is not needed, since current spec only (need to) say that the UE shall not be given eDRX when sent to INACTIVE, it doesn’t say the NW cannot keep the UE in CONNECTED. LG agrees with ZTE. Docomo supports the intention and are OK to clarify this in the spec, but capturing this in the IMS emergency call section would be a more suitable place. CATT and Nokia think current spec is fine. Qualcomm think we should leave the spec as is.

* Not pursued (RAN3 has made changes in this area which renders no further RAN2 discussion on this topic needed).

NTN – To be handled in Sergio’s session

[R2-2505037](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505037.zip) Reply LS on stage 1 requirements to support PWS over satellite NG-RAN in Rel-17 ([R3-253867](https://www.3gpp.org/ftp//tsg_ran/WG3_Iu/TSGR3_128/Docs//R3-253867.zip); contact: Ericsson) RAN3 LS in Rel-17 NR\_NTN\_solutions-Core, LTE\_NBIOT\_eMTC\_NTN-Core To:SA1, CT1, RAN2 Cc:SA2, CT4, RAN, SA

[R2-2505053](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505053.zip) Reply LS from RAN on removal of support of PWS over satellite NG-RAN in Rel-17 and 18 ([RP-251859](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_108/Docs//RP-251859.zip); contact: Aalyria) RAN LS in Rel-17 NR\_NTN\_solutions-Core, LTE\_NBIOT\_eMTC\_NTN-Core To:CT1, SA1, CT, SA, RAN3, RAN2 Cc:SA2, CT4

[R2-2505826](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505826.zip) Support for PWS in NTN Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

Withdrawn/old revisions

[R2-2505853](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505853.zip) Clarification on eDRX and emergency PDU session Ericsson CR Rel-18 38.300 18.6.0 1017 - F NR\_redcap-Core Withdrawn

### 6.1.3 Control Plane corrections

#### 6.1.3.1 NR RRC

Corrections to 38331, and related change to other TS if applicable, except UE caps.

MIMO

[R2-2505784](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505784.zip) Correction on configured grant power control in unified TCI framework Ofinno CR Rel-17 38.331 17.13.0 5439 - F NR\_FeMIMO-Core

[R2-2505785](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505785.zip) Correction on configured grant power control in unified TCI framework Ofinno CR Rel-18 38.331 18.6.0 5440 - A NR\_FeMIMO-Core

- MediaTek think the intention is OK but the way the CR is not implemented well, we should use wording “UE ignores” as this is more commonly used. Nokia agrees with MediaTek.

* Change to “If unifiedTCI-StateType is configured, the UE does not use this field”. Agreed unseen in R2-2506363 and R2-2506364

SON/MDT

[R2-2505830](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505830.zip) Correction on SCGFailureInformation Ericsson CR Rel-17 38.331 17.13.0 5444 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2505831](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505831.zip) Correction on SCGFailureInformation Ericsson CR Rel-18 38.331 18.6.0 5445 - A NR\_ENDC\_SON\_MDT\_enh-Core

- Xiaomi wants more time since the delegate handling this is in another session. Wants to push this offline.

* [AT131][605][Maint] Correction on SCGFailureInformation (Ericsson)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs

      Intended outcome:

* + - Agreed CR(s) in R2-2506365, R2-2506366

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.

- Ericsson reports after the offline that the clause referred in the CR (R2-2505830) was originally added to capture the scenario of SCG failure shortly after a successful execution of the reconfiguration with synch for SCG. Therefore, this change should not be pursued

* R2-2505830, R2-2506365, R2-2506366 are not pursued

NTN – To be handled in Sergio’s session

[R2-2505841](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505841.zip) Discussion on eventD1/D2 and condEventD1/D2/T1 Samsung, ASUSTek, CATT, Ericsson, Nokia, Huawei, Apple, Xiaomi, ZTE Corporation, vivo discussion Rel-17 NR\_NTN\_solutions, NR\_NTN\_enh-Core

[R2-2505842](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505842.zip) Corrections on eventD1 and condEventD1/T1 Samsung CR Rel-17 38.331 17.13.0 5365 1 F NR\_NTN\_solutions [R2-2504204](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_130/Docs//R2-2504204.zip)

[R2-2505843](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505843.zip) Corrections on eventD1/D2 and condEventD1/D2/T1 Samsung CR Rel-18 38.331 18.6.0 5366 1 F NR\_NTN\_solutions, NR\_NTN\_enh-Core [R2-2504205](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_130/Docs//R2-2504205.zip)

[R2-2506155](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506155.zip) Correction of PDD reporting related descriptions Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

Measurement gap enhancements

[R2-2505602](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505602.zip) Clarifications on the applicability of independent gap UE capability Qualcomm Incorporated CR Rel-17 38.306 17.13.0 1331 - F NR\_MG\_enh-Core

* Needs to be revised

[R2-2505603](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505603.zip) Clarifications on the applicability of independent gap UE capability Qualcomm Incorporated CR Rel-18 38.306 18.6.0 1332 - A NR\_MG\_enh-Core

* Agreed

- ZTE supports this CR, but why not from Rel-15? Qualcomm think we could do from Rel-15. ZTE wants this from Rel-15 since the capa is a Rel-15 capa.

* The change is agreeable but should be done from Rel-15. Agreed unseen in R2-2506367 (Rel15), R2-2506368 (Rel-16) and R2-2506369 (Rel-17). The original Rel-18 CR in R2-2505603 is agreed.

[R2-2505897](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505897.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-17 36.331 17.13.0 5147 - F NR\_MG\_enh-Core

[R2-2505898](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505898.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-18 36.331 18.6.0 5148 - A NR\_MG\_enh-Core

[R2-2505899](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505899.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-17 36.306 17.9.0 1921 - F NR\_MG\_enh-Core

[R2-2505900](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505900.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-18 36.306 18.5.0 1922 - A NR\_MG\_enh-Core

- Qualcomm supports these CRs. ZTE agrees with the intention but think LTE stand-alone is also impacted. Xiaomi agrees.

- Huawei wants to check these CRs a bit more offline.

* [AT131][606][Maint] Correction on inter-RAT FR2 measurement capabilities (Nokia)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs

      Intended outcome:

* + - Agreed CR(s) in R2-2506370, R2-2506371, R2-2506372, R2-2506373

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.

[R2-2506370](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506370.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-17 36.331 17.13.0 5147 1 F NR\_MG\_enh-Core

[R2-2506371](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506371.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-18 36.331 18.6.0 5148 1 A NR\_MG\_enh-Core

[R2-2506372](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506372.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-17 36.306 17.9.0 1921 1 F NR\_MG\_enh-Core

[R2-2506373](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506373.zip) Correction on inter-RAT FR2 measurement capabilities Nokia CR Rel-18 36.306 18.5.0 1922 1 A NR\_MG\_enh-Core

* All 4 are agreed

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

# 7 Rel-18

## 7.0 Common

Rel-18 WIs not covered under an explicit AI in 7.x. Multi-WI Rel-18 items, e.g. cross-WI-issues not handled under another WI. UE capabilities.

### 7.0.2 Rel-18 corrections

*Essential corrections only. For smaller corrections please contact CR editor / Rapporteur directly. Coordinate with rapporteurs and chair if input above limit is required*

*Tdoc limitation: 5*

#### 7.0.2.11 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](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_96/Docs//RP-221825.zip))

noSuitableCell

[R2-2506055](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506055.zip) Correction on reporting noSuitableCellFound Samsung CR Rel-18 38.331 18.6.0 5448 - F NR\_ENDC\_SON\_MDT\_enh2-Core

- CATT think there is no need to change this. ZTE also thinks that noSuitableCellFound is more about expiry at reestablishment and not fast recovery. Ericsson thinks this is not a correction but more a change of functionality by extending the functionality to a new scenario.

* Not pursued

successPSCell-Config

[R2-2506077](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506077.zip) Correction on procedual text for successPSCell-Config Huawei, HiSilicon, CATT, CMCC, Samsung, Ericsson CR Rel-18 38.331 18.6.0 5454 - F NR\_ENDC\_SON\_MDT\_enh2-Core

* Agreed

RACH partition

[R2-2506106](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506106.zip) Discussion on parameters for RACH partition in RA-report Sharp discussion

 Option 1: the startPreambleForThisPartition and numberOfPreamblesPerSSB-ForThisPartition in RA report is set to that of the first used set of RA resource.

 Option 2: the startPreambleForThisPartition and numberOfPreamblesPerSSB-ForThisPartition in RA report is set to that of the last used set of RA resource.

 Option 3: define a new list of startPreambleForThisPartition and numberOfPreamblesPerSSB-ForThisPartition in RA report to include that of the used multiple sets of RA resource.

Proposal: RAN2 discusses how to clarify the startPreambleForThisPartition and numberOfPreamblesPerSSB-ForThisPartition setting in RA report in case of an RA procedure with msg1 repetition number ramping.

[R2-2506107](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506107.zip) Correction to startPreambleForThisPartition and numberOfPreamblesPerSSB-ForThisPartition in RA-report Sharp CR Rel-18 38.331 18.6.0 5456 - F NR\_ENDC\_SON\_MDT\_enh2-Core

- Ericsson think the UE always logs the latest used resources, so they agree, but the spec is already clear on this. Sharp does not agree that its clear. ZTE supports the CR. LG thinks its beneficial to clarify this in the spec but want to understand that indeed it is the case that two UEs in different situations (different RSRP) might end up with the same RA report since they both might end up using the same RA resources in the end of the procedure. Qualcomm is not sure a clarification is needed.

* Agreed

[R2-2506183](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506183.zip) Correction on the dlRSRPAboveThreshold in RA-report Xiaomi CR Rel-18 38.331 18.6.0 5466 - F NR\_ENDC\_SON\_MDT\_enh2-Core

- Ericsson want to discuss the third change more offline. Nokia thinks we don’t need to add suffixes unless needed.

* [AT131][608][SONMDT] Correction on the dlRSRPAboveThreshold in RA-report (Xiaomi)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs

      Intended outcome:

* + - Agreed CR(s) in R2-2506375

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.

SHR

[R2-2506108](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506108.zip) Correction for setting choCandidate in SHR Sharp CR Rel-18 38.331 18.6.0 5457 - F NR\_ENDC\_SON\_MDT\_enh2-Core

- Samsung thinks the UE cannot know if masterCellGroup is included or not since the UE may not do early decoding of the CHO. Ericsson think we can simplify by saying that the cell is a CHO candidate. CATT think we shouldn’t consider SON/MDT enhancements for NES/NTN CHOs.

* Not pursued

SPR

[R2-2506182](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506182.zip) Correction on SPR determination procedure Xiaomi CR Rel-18 38.331 18.6.0 5465 - F NR\_ENDC\_SON\_MDT\_enh2-Core

- Samsung thinks the CR is wrong.

* Nor pursued

Withdrawn/old revisions

[R2-2505309](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505309.zip) Correction on SPR determination procedure Xiaomi CR Rel-18 38.331 18.6.0 5404 - F NR\_ENDC\_SON\_MDT\_enh2-Core Withdrawn

[R2-2505310](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505310.zip) Correction on the dlRSRPAboveThreshold in RA-report Xiaomi CR Rel-18 38.331 18.6.0 5405 - F NR\_ENDC\_SON\_MDT\_enh2-Core Withdrawn

# 8 Rel-19

## 8.10 SON/MDT Ph4

(NR\_ENDC\_SON\_MDT\_Ph4-Core; leading WG: RAN3; REL-19; WID: [RP-234038](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_102/Docs//RP-234038.zip))

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.10.1 Organizational

LS, Rapporteur input, including workplan, etc.

LSs

[R2-2505038](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505038.zip) LS on support of MRO for S-CPAC ([R3-253886](https://www.3gpp.org/ftp//tsg_ran/WG3_Iu/TSGR3_128/Docs//R3-253886.zip); contact: Samsung) RAN3 LS in Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN2

“*RAN3 therefore asks RAN2 to consider if the description of previousPSCellId and timeSCGFailure in SCGFailureInformation needs to be updated to cover the S-CPAC scenario*”

- Samsung highlights that this is already considered in the running CR

* Noted

[R2-2505041](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505041.zip) Reply to LS on SON for LTM ([R3-253944](https://www.3gpp.org/ftp//tsg_ran/WG3_Iu/TSGR3_128/Docs//R3-253944.zip); contact: Samsung) RAN3 LS in Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN2

* Noted

Running CRs, etc.

[R2-2505206](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505206.zip) Summary of [Post130][603][SONMDT] Running capability CR (CATT) CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: an optional UE capability with signalling is defined for RLF report for MCG LTM.

Proposal 2: an optional UE capability without signalling is defined for SHR/RA report for MCG LTM.

Proposal 3: an optional UE capability with signalling is defined for RLF report for CHO with candidate SCG.

Proposal 4: an optional UE capability without signalling is defined for SHR/SPR/SCGFailureInformation for CHO with candidate SCG.

Proposal 5: an optional UE capability without signalling is defined for RLF report for time/location based CHO.

Proposal 6: an optional UE capability with signalling is defined for geographic area scope checking for logged MDT.

Proposal 7: an optional UE capability without signalling is defined for RA-report for SDT.

Proposal 8: an optional UE capability without signalling is defined for MHI Enhancement for SCG Deactivation/Activation.

Proposal 9: an optional UE capability without signalling is defined for MRO for EN-DC SCG failure in LTE specification.

Proposal 10: A UE which supports RLF-Report for conditional handover with time-based and location-based trigger conditions also supports RLF report for conditional handover.

Proposal 11: A UE which supports RLF-Report for conditional handover with candidate SCG also supports RLF report for conditional handover.

**Discussion:**

P1 and P3:

- Qualcomm wonders why UE should report this capa? CATT think this is the same as RLF for DAPS and CHO, so they want to align. Samsung think we should have the indications.

|  |
| --- |
| **Agreements**   1. An optional UE capability with signalling is defined for RLF report for MCG LTM. 2. an optional UE capability without signalling is defined for SHR/RA report for MCG LTM. 3. an optional UE capability with signalling is defined for RLF report for CHO with candidate SCG. 4. an optional UE capability without signalling is defined for SHR/SPR/SCGFailureInformation for CHO with candidate SCG. 5. an optional UE capability without signalling is defined for RLF report for time/location based CHO. 6. an optional UE capability with signalling is defined for geographic area scope checking for logged MDT. 7. an optional UE capability without signalling is defined for RA-report for SDT. 8. an optional UE capability without signalling is defined for MHI Enhancement for SCG Deactivation/Activation. 9. an optional UE capability without signalling is defined for MRO for EN-DC SCG failure in LTE specification. 10. A UE which supports RLF-Report for conditional handover with time-based and location-based trigger conditions also supports RLF report for conditional handover. 11. A UE which supports RLF-Report for conditional handover with candidate SCG also supports RLF report for conditional handover. |

[R2-2505207](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505207.zip) Introduction of SONMDT UE Capabilities CATT draftCR Rel-19 38.331 18.6.0 B NR\_ENDC\_SON\_MDT\_Ph4-Core

* Endorsed and to be updated

[R2-2505208](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505208.zip) Introduction of SONMDT UE Capabilities CATT draftCR Rel-19 38.306 18.6.0 B NR\_ENDC\_SON\_MDT\_Ph4-Core

* Endorsed and to be updated

[R2-2505209](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505209.zip) Introduction of SONMDT UE Capabilities CATT CR Rel-19 36.306 18.5.0 1915 - B NR\_ENDC\_SON\_MDT\_Ph4-Core

* Agreed

[R2-2506402](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506402.zip) Introduction of SONMDT features Ericsson, ZTE CR Rel-19 38.331 18.6.0 5446 1 B NR\_ENDC\_SON\_MDT\_Ph4-Core

* Endorsed and to be updated

[R2-2505833](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505833.zip) Open Issues for NR RRC SONMDT features Ericsson, ZTE discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1 [Open issue RRC-1] For correlation of SHR and SPR generated for a CHO with Candidate SCG, RAN2 discuss and agree to one of the following options, Companies supporting each option provide a text proposal illustrating the implementation.

a. Correlation indication in RRC\_Complete message (a flag beside availability indication)

b. Correlation indication inside the SHR and SPR

c. Logging C-RNTI of PCell and timeSinceSPR in SPR

d. The duplicated information in correlated SHR and SPR is sufficient. no further information is needed for correlation.

Proposal 2 [Open issue RRC-2] For the scenario of CHO with candidate SCG with complementary CHO only configuration, companies are invited to submit contribution with a text proposal addressing the issue and their proposed solution.

Proposal 3 [Open issue RRC-3] concerning logging highest ranked NSAG info associated with cell, freq etc.) companies are invited to submit their contribution addressing this issue with a text proposal reflecting their solution.

Proposal 4 [Open issue RRC-4] If the UE is unable to obtain its location, the UE follows legacy procedure as in logged MDT in terrestrial network.

Proposal 5 [Open issue RRC-5] Granularity of distanceFromReference1, distanceFromReference2 is in steps of 50m, the actual distance will be rounded down to the nearest step value. The maximum value is 65535, meaning 65535 or any larger distance.

Proposal 6 [Open issue RRC-6] RAN2 agree that RAN3 based solution in logging LTM candidate cells can be applicable/used in both RLF and SHR scenarios. RAN2 remove logging LTM candidate cell flag from SHR procedure.

Proposal 7 [Open issue RRC-7] If time allows RAN2 discuss duplicated CHO with Candidate SCG information (ChoWithCandidateSCGInfo) in the RLF and SCGFailureInformation.

Proposal 8 [Open issue RRC-8] If time allows RAN2 discuss logging traffic information in MHI.

Proposal 9 [Open issue RRC-9] If time allows RAN2 discuss logging CAPC execution conditions in RLF-report e.g., in a cpacConfig IE (similar to choConfig IE).

- Ericsson suggests agreeing the easily agreeable. Take the rest based on papers

**Discussion:**

P4:

- Qualcomm think this is pending RAN3 discussion, they think that if the UE cannot get its position the UE should stop. Ericsson think that the legacy behaviour is that the UE checks the PLMN and this should be fine without UE knowing its location, this is how the running CR is written. Nokia is OK with the proposal

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| --- |
| **Agreements**   1. Granularity of distanceFromReference1, distanceFromReference2 is in steps of 50m, the actual distance will be rounded down to the nearest step value. The maximum value is 65535, meaning 65535 or any larger distance. 2. The RAN3 based solution in logging LTM candidate cells can be applicable/used in both RLF and SHR scenarios. RAN2 remove logging LTM candidate cell flag from SHR procedure. |

* [AT131][607][SONMDT] Area config without having location (Ericsson)

Scope:

* + - Discuss offline an agreeable way forward regarding UE not knowing its location

      Intended outcome:

* + - Agreeable way forward which can be implemented in the running CR.

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.

- Ericsson reports after the offline that the following is agreeable.

* UE suspends logging, if it cannot obtain location information.

[R2-2506081](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506081.zip) Introduction of R19 SONMDT features in TS 36.331 Huawei, HiSilicon CR Rel-19 36.331 18.6.0 5150 - B NR\_ENDC\_SON\_MDT\_Ph4-Core

* Endorsed and to be updated

Withdrawn/old revisions

[R2-2505832](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505832.zip) Introduction of SONMDT features Ericsson, ZTE CR Rel-19 38.331 18.6.0 5446 - B NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.2 MRO enhancements for Rel-18 mobility features

LTM has 1st priority. CHO with candidate SCGs has 2nd priority

Subsequent CPAC is paused until if/when we get a RAN3 LS on the subject

RRC-1

[R2-2505210](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505210.zip) MRO Enhancements for CHO with Candidate SCGs CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: (RRC-1) Correlation of the SHR and SPR is needed in case of both reports being generated in one CHO with candidate SCGs execution.

Proposal 2: (RRC-1) To enable the correlation between SHR and SPR reports, enhance SPR to include the C-RNTI assigned by the target PCell of the CHO with candidate SCGs and timeSinceSPR (time elapsed since the execution of the CHO with candidate SCGs to the retrieval of the SPR).

Proposal 3: (RRC-1) To enable the correlation between SHR and SPR reports, enhance timeSinceSHR in SHR to support CHO with candidate SCGs case.

Proposal 4: (RRC-1) Adopt the TP in Annex if P2 and P3 are agreed.

[R2-2505295](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505295.zip) [Open issue RRC-1] Correlation of SHR and SPR vivo discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: [Open issue RRC-1] The network can correlate SHR and SPR generated for the same CHO with Candidate SCG based on the duplicated information in correlated SHR and SPR by implementation.

**Discussion:**

- LG have another proposal of how to correlate, but if majority prefers they are OK with the CATT proposal.

- Nokia think the CRNTI requires the NW to look through all the report, so on top of the CRNTI they want a flag inside the UE report.

- Huawei and ZTE only wants the C-RNTI. Ericsson think the C-RNTI is already used to correlate other reports so want to use that also here. But Ericsson don’t want the timing info.

- Samsung support vivo. Qualcomm also think vivo approach is good enough and there is a lot of info in the report which the NW can use to correlate.

- vivo think the C-RNTI approach has flaws since the NW might reuse a C-RNTI for other UEs.

- Qualcomm thinks the NW should know which UE it got the reports from. CATT thinks the NW might just receive one of the reports.

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| --- |
| **Agreements**   1. We add the C-RNTI for the PCell as a correlation indication for SHR and SPR reports. UE adds this unconditionally, and no other correlation info will be added. |

RRC-2

[R2-2505940](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505940.zip) MRO enhancements for CHO with candidate SCGs CMCC, Huawei, HiSilicon, CATT, Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: UE reports the information of fulfilled condition(s), i.e., CHO, or CPAC, or neither, when CHO only configuration is received, in RLF report and/or SHR report.

Proposal 2: UE reports following information in RLF report and SHR report:

－ Identifier of candidate PCell(s) which met the CHO execution conditions when CHO only configuration is received

－ Identifier of candidate PSCell(s) which met the CPAC execution conditions when CHO only configuration is received

[R2-2506142](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506142.zip) Discussion on Rel-19 SONMDT open issues Xiaomi discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 2: (RRC-2) RAN2 do not need to do optimization for the scenario of CHO with candidate SCG with complementary CHO only configuration.

Proposal 3: (RRC-2) RAN2 needs to consider to extend firstFulfilledConfig IE in 38.331 running CR to support “neither” in case of both CHO and CPAC conditions are not fulfilled.

**Discussion:**

- vivo suggested some alternative solution. Huawei thinks its late in the release to consider new scenarios, and only want to consider the proposal in the CMCC paper now.

- LG supports Xiaomis proposal as we shouldn’t optimize at this point. Xiaomi think we shouldn’t do any optimization since its late now.

- Nokia think we should only consider the scenario when the NW sends both CHO with CPAC and the CHO-only at the same time. Ericsson thinks the scenario CMCC has brought up is valid and its important to understand if a CHO-only config is useful or not and if not useful the NW can avoid wasting resources on configuring it.

|  |
| --- |
| **Agreements**   1. UE reports the information of fulfilled condition(s), i.e., CHO, or CPAC, or neither, when CHO only configuration is received, in RLF report and/or SHR report. 2. UE reports following information in RLF report and SHR report:   － Identifier of candidate PCell(s) which met the CHO execution conditions when CHO only configuration is received  － Identifier of candidate PSCell(s) which met the CPAC execution conditions when CHO only configuration is received  This is an optional UE feature, TBD with or without signalling |

RRC-9 and T310

[R2-2505724](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505724.zip) MRO enhancements for Rel-18 mobility features (RRC-1, RRC-2, RRC-9) Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 3.1: CHO configuration should also be logged in case of SCG failure, i.e. choConfig should be also included in the SCGFailureInformation message.

Proposal 3.2: RAN2 agrees to log CPAC configuration and dual event information in RLF report and SCGFailureInformation via additional new IEs similar to ones used for CHO.

Proposal 4: RAN2 to agree that there is a need to distinguish if the T310 started before or after fulfilment of the first execution conditions for CHO with Candidate SCG(s) and an indication about this in SHR and SPR.

* Noted

**Discussion:**

P3.1:

- LG do not support the proposal, the use of the info is limited since its unlikely that the SN is the issue for a failed CHO. Nokia think a CHO-only config is not mandatory.

Misc

[R2-2505211](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505211.zip) MRO Enhancements for LTM CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: MRO enhancement for SCG LTM is not considered in Rel-19 SON/MDT.

Proposal 2: The legacy SHR trigger conditions based on T310 threshold and T304 threshold can be applied to LTM.

Proposal 3: Include L3 measurement results of serving cell, target cell and other LTM candidate cell(s) in SHR for LTM MRO.

Proposal 4: A new raPurpose in RACH report is introduced to indicate the network-based early TA acquisition.

Proposal 5: RAN2 to discuss how to log the RACH information of network-based early TA acquisition to avoid the impact on the legacy RACH information logging (e.g., RACH information for handover):

- Option 1: one entry in RACH report to log the RACH information of all network-based early TA acquisition before one LTM execution;

- Option 2: one entry in RACH report to log the RACH information of all network-based early TA acquisition before LTM configuration release;

- Option 3: log the RACH information of network-based early TA acquisition per candidate cell in one or multiple entries.

Proposal 6: To address the issue of frequent overriding RLF report/SHR for subsequent LTM, recording multiple reports can be considered as a candidate solution.

Proposal 7: Indication information is needed in RLF report/SHR to indicate whether it’s L1 measurement based LTM or L3 measurement based LTM.

**Discussion:**

P4/P5:

- AsusTek prefers Option 3. Ericsson wonders what the purpose is. ZTE also do not understand the reason for logging the Early UL sync RAs. Qualcomm agree with ZTE and Ericsson. Ericsson think the UE shall not need to log anything w.r.t. early UL sync RAs.

P6:

- Qualcomm does not agree and think the problem is not necessarily to solve. Samsung agrees.

P7:

- Qualcomm think the UE should only log L1 measurements for L1 LTM. ZTE thinks the info will be known implicitly.

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| **Agreements**   1. MRO enhancement for SCG LTM is not considered in Rel-19 SON/MDT. 2. The legacy SHR trigger conditions based on T310 threshold and T304 threshold can be applied to LTM. 3. Include L3 measurement results of serving cell, target cell and other LTM candidate cell(s) in SHR for LTM MRO. 4. UE does not log information regarding RA procedures performed for the purpose of early UL sync. 5. UE includes L1 measurements only for L1 based LTM, as in current running CR. |

choWithCandidateSCGInfoList

[R2-2505754](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505754.zip) Correlation Indication and other issues of CHO with Candidate SCG(s) Samsung discussion

Proposal 2: Update the RRC Spec so that the pCellId and psCellId are logged in choWithCandidateSCGInfoList for SCGFailureInformation only for the candidates with fulfilled execution conditions as below.

1> for each entry of condReconfigList in the MCG VarConditionalReconfig including both condExecutionCond and condExecutionCondPSCell,where all triggering events of any of condExecutionCond and condExecutionCondPSCell are fulfilled include an entry in choWithCandidateSCGInfoList and set the values as follows

* Noted, if critical we can revisit this

RACH-less LTM

[R2-2506041](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506041.zip) Open issues on MRO enhancements for mobility Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 2 UE indicates to gNB in SHR if RACH-less LTM is attempted or not before LTM recovery success.

Proposal 3 UE indicates to gNB in RLF Report if RACH-less LTM is attempted or not when RACH-less LTM is not successful.¨

**Discussion:**

P2:

- Samsung and Ericsson think its known implicitly.

* Noted

previousPSCellId

[R2-2506082](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506082.zip) Discussion on MRO for mobility Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: It is proposed to add a clarification to the field description of previousPSCellId, i.e. it also indicates the cell that is the source PSCell associated to the last execution of RRCReconfiguration message including reconfigurationWithSync for the SCG.

**Discussion:**

P1:

- Ericsson think we have discussed this field description many times and we should be careful not to break legacy behaviour.

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| --- |
| **Agreements**   1. We intend to add a clarification to the field description of previousPSCellId, i.e. it also indicates the cell that is the source PSCell associated to the last execution of RRCReconfiguration message including reconfigurationWithSync for the SCG. This can be reconsidered if we find issues. |

RRC-7

[R2-2505631](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505631.zip) Remaining open issues for MOB MRO LG Electronics Inc. discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 5: (RRC-7) The UE is allowed to avoid duplicate CHO+CPAC logging across RLF report and SCG failure information.

Proposal 6: (RRC-7) Similar to Open issue RRC-1, to keep the procedures simple and efficient, add a NOTE to the relevant procedure text to suppress duplication logging, as described in the TP in Annex.

* Noted

[R2-2505685](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505685.zip) Discussion on MRO enhancements for mobility Lenovo discussion Rel-19

RA report enhancements for LTM

Proposal 1: RACH information for early TA acquisition can be included in RA report.

Proposal 2: One entry can be used to log both RACH information related with early TA acquisition and RACH information related with RACH based access (e.g. LTM failure recovery or RRC re-establishment, or RACH-based LTM for the case that network does not send the early TA value to the UE due to the early TA is outdated) in RA report.

[R2-2505755](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505755.zip) MRO for CHO with Candidate SCG(s) and CHO only configuration Samsung discussion

Proposal 1: [Open issue RRC-2] Include choConfig and triggeredEvent for both CHO with candidate SCG(s) and CHO only configuration in RLF report.

[R2-2505801](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505801.zip) Discussion on open issues for MRO ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2505834](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505834.zip) MRO for CHO with candidate SCG Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.3 Other

RACH optimization for SDT focus on RSRP and data volume in SON reports, and existing failure causes.

MHI Enhancement for SCG Deactivation/Activation.

SON/MDT for Slicing

SON/MDT for NTN

RRC-3

[R2-2505835](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505835.zip) Discussion on SON-MDT enhancements for Slicing and NTN Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1 [Open issue RRC-3] RAN2 logs the cell reselection failure information in the next/first MDT sample logged after the detected cell reselection failure.

Proposal 2 [Open issue RRC-3] RAN2 include the following information along with NSAG information in the logged MDT report a) Cell information (if available, it may not be available if the UE goes to any cell selection state) b) location where UE fails to access a cell according to NSAG priority

Proposal 3 Set 8 as the Maximum number of geographical areas that the UE can be configured as implemented in the RRC running CR.

[R2-2506083](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506083.zip) Discussion on SONMDT for others Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal: (RRC-3) It is sufficient to reply on the following UE behavior (from the previous RAN2#130 agreement):

If the UE supports slice-based cell reselection does not find any suitable cell in the frequencies corresponding to the highest ranked NSAG, the UE logs the highest ranked NSAG.

And then the possible RAN2 impacts are:

(1) add one flag into LogMeasInfo-r16, i.e. NSAG-ID-r17 for the highest ranked NSAG information

(2) update the procedural text by adding this flag

**Discussion:**

P1/P2 (Ericsson):

- Samsung thinks the Huawei proposal is simopler. ZTE think the Ericsson solution is more complete since it has cell info, but location info is out of scope. Nokia agrees with the Huawei approach but also want the NSAG ID. Ericsson think the cell info is needed to know where the UE were. Nokia thinks the UE reports neighbour cells and from this the operator can know which cell is the problematic cell. ZTE think there can be a time gap between the failure and the lack of NSAG, so we need to tell where the failure happened.

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| --- |
| **Agreements**   1. RAN2 includes the following information along with NSAG information in the logged MDT report: Cell information of the cell that the UE was in when it was not able to find its highest prio NSAG (if available, it may not be available if the UE goes to any cell selection state) 2. Set 8 as the Maximum number of geographical areas that the UE can be configured as implemented in the RRC running CR. |

RRC-8

[R2-2505802](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505802.zip) Discussion on other leftover issues ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 2 (RRC-8) UE includes traffic characteristics (e.g., average data rate during activation period) in the MHI together with the SCG activation/deactivation information.

**Discussion:**

P2:

- Qualcomm does not agree with this.

* Noted

NTN

[R2-2506042](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506042.zip) Open issues on NTN SONMDT Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1 The legacy area scope should not be configured when Rel-19 area scope is configured.

- Huawei supports P1. Ericsson think we can discuss this in the comeback to have a unified solution.

|  |
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| **Agreements**   1. RAN2 intends to specify that the legacy area scope cannot be configured when Rel-19 area scope is configured. |

[R2-2505725](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2505725.zip) SON/MDT enhancements for network slicing (RRC-3), MHI and NTN Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 2: It is proposed to include additional assistance information related to the condition(s) for SCG activation/deactivation, in MHI such as DL and/or UL volume per second which was transmitted or received by UE during the SCG activation time for the given PSCell.

Proposal 3.1: RAN2 to consider enhancing RLF Report and SHR for DG based RACH-less access for NTN with the addition of the following parameters:

1) PDCCH Monitoring Time Until Success

2) No of PUSCH Attempts Until Success

Proposal 3.2: Define a new SHR trigger (based on PDCCH monitoring time and/or number of PUSCH attempts) for the UE to log the enhancements measurements specific to NTN RACH-less access.

**Discussion:**

P2:

- Qualcomm thinks the NW is in control and the UE is not. Samsung agrees with QC.

P3.1:

- Qualcomm does not support this since its hard to get L1 statistics. This has been discussed before also.

* Noted

[R2-2506143](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131/Docs//R2-2506143.zip) Discussion on other aspects of Rel-19 SONMDT Xiaomi discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: (RRC-4) If the UE is unable to obtain its location, the UE stops logging MDT for NTN.

# Summary

**Email discussions:**

[ [AT131][600] Organizational – Maintenance and SON/MDT (Ericsson)](#_Toc207281475)

[ [AT131][602][Maint] Correction on previousPCellId in RLF report (Huawei)](#_Toc207281476)

[ [AT131][603][Maint] Clarification on RRC procedure delay for BWP switching (Samsung)](#_Toc207281477)

[ [AT131][601][Maint] Spatial Relation Info list extension (ZTE)](#_Toc207281478)

[ [AT131][604][Maint] Correction on intraF-NeighMeasForSCellWithoutSSB (ZTE)](#_Toc207281479)

[ [AT131][605][Maint] Correction on SCGFailureInformation (Ericsson)](#_Toc207281480)

[ [AT131][606][Maint] Correction on inter-RAT FR2 measurement capabilities (Nokia)](#_Toc207281481)

[ [AT131][608][SONMDT] Correction on the dlRSRPAboveThreshold in RA-report (Xiaomi)](#_Toc207281482)

[ [AT131][607][SONMDT] Area config without having location (Ericsson)](#_Toc207281483)

[ [AT131][6XX][WI-code] Example (Company)](#_Toc207281484)

[ [Post131][6XX][WI-code] Example (Company)](#_Toc207281485)

**Comebacks:**

No table of figures entries found.

**NBC CRs:**

TBD

**Post meeting email discussions:**

TBD

# Note to self (For Mattias)

**Tdoc number assignment (to be allocated by Mattias):**

R2-2506351 Correction on LTE RLF report logging CATT

R2-2506352 Correction on LTE RLF report logging CATT

R2-2506353 Correction on LTE RLF report logging CATT

R2-2506354 Correction on MBMS Interest Indication Samsung

R2-2506355 Correction on previousPCellId in RLF report Huawei

R2-2506356 Correction on previousPCellId in RLF report Huawei

R2-2506357 Correction on previousPCellId in RLF report Huawei

R2-2506358 Clarification on RRC procedure delay for BWP switching Samsung

R2-2506359 Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE

R2-2506360 Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE

R2-2506361 Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE

R2-2506362 Correction on intraF-NeighMeasForSCellWithoutSSB capability ZTE

R2-2506363 Correction on configured grant power control in unified TCI framework Ofinno

R2-2506364 Correction on configured grant power control in unified TCI framework Ofinno

R2-2506365 Correction on SCGFailureInformation Ericsson

R2-2506366 Correction on SCGFailureInformation Ericsson

R2-2506367 Clarifications on the applicability of independent gap UE capability Qualcomm

R2-2506368 Clarifications on the applicability of independent gap UE capability Qualcomm

R2-2506369 Clarifications on the applicability of independent gap UE capability Qualcomm

R2-2506370 Correction on inter-RAT FR2 measurement capabilities Nokia

R2-2506371 Correction on inter-RAT FR2 measurement capabilities Nokia

R2-2506372 Correction on inter-RAT FR2 measurement capabilities Nokia

R2-2506373 Correction on inter-RAT FR2 measurement capabilities Nokia

R2-2506374 Correction on UL spatial multiplexing ASUSTeK

R2-2506375

R2-2506376

R2-2506377

R2-2506378

R2-2506379

R2-2506380

R2-2506381

R2-2506382

R2-2506383

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R2-2506393

R2-2506394

R2-2506395

R2-2506396

R2-2506397

R2-2506398

R2-2506399

R2-2506400

**Templates:**

* [AT131][6XX][WI-code] Example (Company)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs / Produce approvable LS

      Intended outcome:

* + - Agreed CR(s) in R2-250xxxx
    - Approved LS in R2-250xxxx

     Deadline:

* + - Wednesday 17:00. The intention is to agree over email.
    - In time for the Thursday session
* [Post131][6XX][WI-code] Example (Company)

Scope:

* + - Discuss offline (face-to-face preferred, if suitable)
    - Produce agreeable CRs / Produce approvable LS

      Intended outcome:

* + - Agreed CR(s) in R2-250xxxx

     Deadline:

* + - Short
    - Long