3GPP TSG-RAN WG2 Meeting #127 R2-240xxx

Maastricht, Netherlands, Aug 19th – 23rd, 2024

Source: Session chair (Ericsson)

Title: Report from session on maintenance, CovEnh, SON/MDT and eRedCap

* [AT127][600] Organizational – Maintenance, Covenh, SON/MDT and eRedCap (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 V2X and Sidelink WIs and Positioning WIs, which are 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)

scg-State

[R2-2406272](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406272.zip) Correction on the field of scg-State Huawei, HiSilicon, Qualcomm Incorporated CR Rel-17 36.331 17.9.0 5034 - F LTE\_NR\_DC\_enh2-Core

[R2-2406273](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406273.zip) Correction on the field of scg-State Huawei, HiSilicon, Qualcomm Incorporated CR Rel-18 36.331 18.2.0 5035 - A LTE\_NR\_DC\_enh2-Core

[R2-2406274](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406274.zip) Correction on the field of scg-State Huawei, HiSilicon, Qualcomm Incorporated CR Rel-17 38.331 17.9.0 4864 - F LTE\_NR\_DC\_enh2-Core

[R2-2406275](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406275.zip) Correction on the field of scg-State Huawei, HiSilicon, Qualcomm Incorporated CR Rel-18 38.331 18.2.0 4865 - A LTE\_NR\_DC\_enh2-Core

* All agreed

Extended wait time

[R2-2406631](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406631.zip) extendedWaitTime correction Peraton Labs, CISA ECD, AT&T, Verizon CR Rel-18 36.331 18.2.0 5041 - F NB\_IOT-Core

- Lenovo, MediaTek and Huawei think that this was intentional and the extended wait time is mandatory in the release message.

* Not pursued

MBMS

[R2-2406646](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406646.zip) Correction to MIB-MBMS systemFrameNumber field description Qualcomm Incorporated, Samsung, ABS, SJTU CR Rel-14 36.331 14.17.0 5042 - F MBMS\_LTE\_enh2-Core

[R2-2406647](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406647.zip) Correction to MIB-MBMS systemFrameNumber field description Qualcomm Incorporated, Samsung, ABS, SJTU CR Rel-15 36.331 15.22.0 5043 - A MBMS\_LTE\_enh2-Core

[R2-2406648](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406648.zip) Correction to MIB-MBMS systemFrameNumber field description Qualcomm Incorporated, Samsung, ABS, SJTU CR Rel-16 36.331 16.16.0 5044 - A MBMS\_LTE\_enh2-Core

[R2-2406649](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406649.zip) Correction to MIB-MBMS systemFrameNumber field description Qualcomm Incorporated, Samsung, ABS, SJTU CR Rel-17 36.331 17.9.0 5045 - A MBMS\_LTE\_enh2-Core

[R2-2407210](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407210.zip) Correction to MIB-MBMS systemFrameNumber field description Qualcomm Incorporated, Samsung, ABS, SJTU CR Rel-18 36.331 18.2.0 5046 1 A MBMS\_LTE\_enh2-Core [R2-2406650](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406650.zip)

- Ericsson agrees that something is wrong but are not sure if this is the best way, perhaps one can add a clarification/correction. Qualcomm is OK with that approach.

- Ericsson wonders if we can do this from a later release.

* [AT127][601][MBMS] Correction to MIB-MBMS systemFrameNumber (Qualcomm)

Scope:

* + - Discuss how to polish the current word rather than just removing and discuss which release this should be done from. Produce agreeable CRs

      Intended outcome:

* + - Agreed CR in R2-2407632 (Qualcomm)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.

Old revisions, withdrawn

[R2-2406650](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406650.zip) Correction to MIB-MBMS systemFrameNumber field description Qualcomm Incorporated, Samsung, ABS, SJTU CR Rel-18 36.331 18.2.0 5046 - A MBMS\_LTE\_enh2-Core Revised

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 2 tdocs in total for all sub agenda items NOTE: some agenda items have additional Tdoc limits.

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😉](http://ftp.3gpp.org/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))

(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

MPS Priority access

[R2-2406634](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406634.zip) Alignment of mps-PriorityAccess cause in RRC resume Peraton Labs, CISA ECD, Verizon CR Rel-18 38.300 18.2.0 0882 - F NR\_newRAT-Core

- CATT wonders if we should fix this in earlier releases? Samsung thinks that we should change from R15 if we should fix this, but think it can be merged to rapporteur CR.

- ZTE thinks that an impact analysis is needed and that summar of changes should be softened.

* [AT127][602][Maint] mps-PriorityAccess cause in RRC resume (Peraton Labs)

Scope:

* + - Produce agreeable CR

      Intended outcome:

* + - Agreed CR in R2-2407633 (Peraton Labs)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.

Transport channels

[R2-2407281](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407281.zip) Correction on Transport Channels Philips International B.V. CR Rel-15 38.300 15.17.0 0889 - F NR\_newRAT-Core

[R2-2407282](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407282.zip) Correction on Transport Channels Philips International B.V. CR Rel-16 38.300 16.16.0 0890 - F NR\_newRAT-Core

[R2-2407284](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407284.zip) Correction on Transport Channels Philips International B.V. CR Rel-17 38.300 17.9.0 0891 - A NR\_newRAT-Core

[R2-2407288](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407288.zip) Correction on Transport Channels Philips International B.V. CR Rel-18 38.300 18.2.0 0892 - A NR\_newRAT-Core

* All agreed except the R16 CR which should be cat A. Use R2-2407634 for the update of the R16 CR.

### 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.

HO and SRB2

[R2-2406336](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406336.zip) Preconditions for MCG reconfiguration with sync MediaTek Inc. discussion Rel-15 NR\_newRAT-Core

[R2-2406350](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406350.zip) Correction on the way to include ReconfigurationWithSync in masterCellGroup in RRCReconfiguration NTTDOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson, Samsung CR Rel-15 38.331 15.26.0 4870 - F NR\_newRAT-Core

[R2-2406351](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406351.zip) Correction on the way to include ReconfigurationWithSync in masterCellGroup in RRCReconfiguration NTTDOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson, Samsung CR Rel-16 38.331 16.17.0 4871 - A NR\_newRAT-Core

[R2-2406353](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406353.zip) Correction on the way to include ReconfigurationWithSync in masterCellGroup in RRCReconfiguration NTTDOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson, Samsung CR Rel-17 38.331 17.9.0 4872 - A NR\_newRAT-Core

[R2-2406354](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406354.zip) Correction on the way to include ReconfigurationWithSync in masterCellGroup in RRCReconfiguration NTTDOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson, Samsung CR Rel-18 38.331 18.2.0 4873 - A NR\_newRAT-Core

* The 4 above are agreed.

IDLE state changes

[R2-2406799](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406799.zip) Discussion on going to IDLE triggered by inter-RAT cell selecton or reselection vivo discussion Rel-16

[R2-2406800](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406800.zip) Correction on going to IDLE triggered by inter-RAT cell selection or reselection vivo CR Rel-16 38.331 16.17.0 4888 - F NR\_newRAT-Core

[R2-2406801](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406801.zip) Correction on going to IDLE triggered by inter-RAT cell selection vivo CR Rel-16 36.331 16.16.0 5047 - F NR\_newRAT-Core

- Samsung does not agree with this and think that it works already today. CATT thinks that a note in minutes is sufficient.

* RAN2 understands that a UE implementation may go from NR CONNECTED to LTE IDLE directly, according to the proposal, but it may also go via NR IDLE, and this can be left to implementation.

SRS switching

[R2-2406841](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406841.zip) Correction on IE SRS-CarrierSwitching CATT CR Rel-15 38.331 15.26.0 4893 - F NR\_newRAT-Core

[R2-2406842](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406842.zip) Correction on IE SRS-CarrierSwitching CATT CR Rel-16 38.331 16.17.0 4894 - A NR\_newRAT-Core, TEI16

[R2-2406843](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406843.zip) Correction on IE SRS-CarrierSwitching CATT CR Rel-17 38.331 17.9.0 4895 - A NR\_newRAT-Core, TEI17

[R2-2406844](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406844.zip) Correction on IE SRS-CarrierSwitching CATT CR Rel-18 38.331 18.2.0 4896 - A NR\_newRAT-Core, TEI18

- Ericsson and ZTE thinks there are many errors in this field description and they will send an LS. CATT wants to clarify this here now since it will help RAN1 discussions. Vivo agrees with CATTs intention. Nokia thinks something is wrong in the field description and want to fix it now. Huawei think we can remove something and refer to RAN1 specs instead.

* RAN2 understands that the field description for typeA and typeB in SRS-CarrierSwitching are wrong and we will wait for input from RAN1.

Setup release

[R2-2407083](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407083.zip) Generic procedure text for SetupRelease Ericsson CR Rel-15 38.331 15.26.0 4918 - F NR\_newRAT-Core

[R2-2407084](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407084.zip) Generic procedure text for SetupRelease Ericsson CR Rel-16 38.331 16.17.0 4919 - A NR\_newRAT-Core, TEI16

[R2-2407085](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407085.zip) Generic procedure text for SetupRelease Ericsson CR Rel-17 38.331 17.9.0 4920 - A NR\_newRAT-Core, TEI17

[R2-2407086](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407086.zip) Generic procedure text for SetupRelease Ericsson CR Rel-18 38.331 18.2.0 4921 - A NR\_newRAT-Core, TEI18

*Moved from 6.1.3.1*

*-* MediaTek thinks its clear from 5.1.2 already on how setup release is handled.

* The second change (to A.3.8) is agreed and merged into R18 RRC rapporteur CR.

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

Parallel TX

[R2-2407069](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407069.zip) Parallel Tx capability discussion Ericsson, Qualcomm Incorporated discussion

* Huawei thinks we don’t need to differentiate. Nokia agrees with the proposal. ZTE also agrees with the proposal. Apple thinks that we should go with this proposal.
* [AT127][603][Maint] Parallel Tx capability (Ericsson)

Scope:

* + - Produce agreeable CRs, if possible.

      Intended outcome:

* + - Agreed CRs in R2-2407635 and R2-2407636 (Ericsson)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email, if possible. Otherwise we can try on Friday morning.

Increase nrof CSI RS per MO

[R2-2407297](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407297.zip) Clarification on increasedNumberofCSIRSPerMO Huawei, HiSilicon, vivo, MediaTek Inc., Nokia, Nokia Shanghai Bell, ZTE Corporation CR Rel-16 38.306 16.17.0 1138 - F NR\_CSIRS\_L3meas-Core

[R2-2407298](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407298.zip) Clarification on increasedNumberofCSIRSPerMO Huawei, HiSilicon, vivo, MediaTek Inc., Nokia, Nokia Shanghai Bell, ZTE Corporation CR Rel-17 38.306 17.9.0 1139 - A NR\_CSIRS\_L3meas-Core

[R2-2407299](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407299.zip) Clarification on increasedNumberofCSIRSPerMO Huawei, HiSilicon, vivo, MediaTek Inc., Nokia, Nokia Shanghai Bell, ZTE Corporation CR Rel-18 38.306 18.2.0 1140 - A NR\_CSIRS\_L3meas-Core

* Agreed unseen in R2-2407637, R2-2407638, R2-2407639 but fix the styling. Everything is now style “Normal”.

ssb-AndCSI-RS-RLM

[R2-2407323](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407323.zip) Clarification on the Prerequisite of the ssb-AndCSI-RS-RLM (r15) ZTE Corporation, Sanechips CR Rel-15 38.306 15.25.0 1142 - F NR\_newRAT-Core

[R2-2407324](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407324.zip) Clarification on the Prerequisite of the ssb-AndCSI-RS-RLM (r16) ZTE Corporation, Sanechips CR Rel-16 38.306 16.17.0 1143 - A NR\_newRAT-Core

[R2-2407325](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407325.zip) Clarification on the Prerequisite of the ssb-AndCSI-RS-RLM (r17) ZTE Corporation, Sanechips CR Rel-17 38.306 17.9.0 1144 - A NR\_newRAT-Core

[R2-2407326](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407326.zip) Clarification on the Prerequisite of the ssb-AndCSI-RS-RLM (r18) ZTE Corporation, Sanechips CR Rel-18 38.306 18.2.0 1145 - A NR\_newRAT-Core

- MediaTek think none of these are needed.

* All agreed.

#### 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.

Relaxed measurements

[R2-2407341](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407341.zip) Correction to Relaxed measurement LG Electronics CR Rel-16 38.304 16.10.0 0412 - F NR\_newRAT-Core

[R2-2407361](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407361.zip) Correction to Relaxed measurement LG Electronics CR Rel-17 38.304 17.9.0 0413 - A NR\_newRAT-Core

[R2-2407363](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407363.zip) Correction to Relaxed measurement LG Electronics CR Rel-18 38.304 18.2.0 0414 - A NR\_newRAT-Core

- ZTE wants to correct RAN2 specs rather than just refer to RAN4 specs. Vivo also does not agree with this CR, but want to send an LS to RAN4 to check with them about the issue. Nokia think people can check with their RAN4 colleagues. Vivo want an LS. Ericsson think that this is a RAN4 feature and their specs have all conditions there. MediaTek wants to get more time to check.

* Postponed

# 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.

## 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))

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.

Tdoc limitation: 4 Tdocs

### 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)

### 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 – Power control

[R2-2407557](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407557.zip) Correction on power control parameters to support unified TCI state framework Ericsson CR Rel-17 38.331 4964 - F NR\_feMIMO-Core Late

[R2-2407556](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407556.zip) Correction on power control parameters to support unified TCI state framework Ericsson CR Rel-17 38.331 4963 - F NR\_feMIMO-Core Late

- Nokia does not agree and thinks there need to be more discussion. MediaTek agrees with the Ericsson CR and thinks it is needed. CATT has checked with RAN1 colleagues and agrees with the problem but want to think more how to address it, another approach is that we add specific parameters, but are not sure which parameters need to be added yet. Huawei thinks that it can work without the parameters and RAN1 said the params are not needed. Qualcomm also checked with RAN1 people and agrees with the CR but can consider to send an LS to RAN1. Docomo agrees with Qualcomm. Samsung also checked with RAN1 colleauges and agrees with Qualcomm. Ericsson is OK to check with RAN1.

* [AT127][604][FeMIMO] LS to RAN1 on power control parameters (Ericsson)

Scope:

* + - Produce approvable draft LS

      Intended outcome:

* + - Approvable LS in R2-2407631 (Ericsson)

     Deadline:

* + - Wednesday session
* R2-2407631 is approved in R2-2407655
* [Post127][602][FeMIMO] Power control parameters to support unified TCI state framework (Ericsson)

Scope:

* + - Produce agreeable CRs pending input from RAN1, if needed

      Intended outcome:

* + - Agreed CRs in R2-2407659 and R2-2407660 (Ericsson)

     Deadline:

* + - Short

RedCap

[R2-2406372](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406372.zip) Corrections on the application of intraFreqReselection Huawei, HiSilicon CR Rel-17 38.331 17.9.0 4874 - F NR\_redcap-Core

[R2-2406373](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406373.zip) Corrections on the application of intraFreqReselection Huawei, HiSilicon CR Rel-18 38.331 18.2.0 4875 - A NR\_redcap-Core, NR\_redcap\_enh-Core

- Samsung thinks the change to the IFRI field description is wrong, since a RedCap UEs look at the IFRI just that its another version of the field. Qualcomm says that they try to polish this behaviour in several specs but that was not agreeable. Huawei wants more time to discuss in a later meeting.

* Postponed

RA partitioning

[R2-2406411](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406411.zip) Consideration on overlapping preamble range and empty FeatureCombination ZTE Corporation discussion Rel-17 NR\_newRAT-Core

On P1:

- After a coffeebreak offline companies aligned and want to confirm P1 from the ZTE paper above.

On P3:

-

* RAN2 confirm that in RedCap specific initial uplink BWP where SI-request without Msg1 repetition is enabled, the network can configure “startPreambleForThisPartition-r17” equal to 0 for a RACH partition associated with a feature (or feature combination), and this RACH partition shares the ROs of another RACH partition that not associated with any feature. No spec impact is needed.
* RAN2 confirm that empty featureCombination-r17 is not supported.
* To clarify in RRC spec, for SI-RequestConfig, UE applies the parameters (e.g. prach-RootSequenceIndex, msg1-SubcarrierSpacing, etc) configured in rach-ConfigCommon corresponding to the RACH resource set selected upon RACH initialization as specified in MAC spec.

[R2-2407009](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407009.zip) Correction on featureCombination and SI-RequestConfig ZTE Corporation CR Rel-17 38.331 17.9.0 4911 - F NR\_newRAT-Core

[R2-2407010](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407010.zip) Correction on featureCombination and SI-RequestConfig ZTE Corporation CR Rel-18 38.331 18.2.0 4912 - A NR\_newRAT-Core

- Apple wants to write that “Network ensured that at least one field in the featureCombination is configured”

* Change to “Network ensure that at least one field in the featureCombination is configured” in the field description for featureCombination.
* Agreed unseen in R2-2407642 and R2-2407643

[R2-2407459](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407459.zip) Clarification on configuring RACH partition in RedCap-specific initial BWP for Msg1-based SI request LG Electronics Inc. discussion Rel-17 NR\_redcap-Core

[R2-2407173](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407173.zip) Correction on when featureCombination is empty Ericsson CR Rel-17 38.331 17.9.0 4801 1 F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core [R2-2404965](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_126/Docs//R2-2404965.zip)

[R2-2407174](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407174.zip) Correction on when featureCombination is empty Ericsson CR Rel-18 38.331 18.2.0 4802 1 A NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core [R2-2404966](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_126/Docs//R2-2404966.zip)

[R2-2406927](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406927.zip) Correction for CFRA configuration due to PRACH partitioning Huawei, HiSilicon CR Rel-17 38.331 17.9.0 4899 - F NR\_redcap-Core

[R2-2406928](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406928.zip) Correction for CFRA configuration due to PRACH partitioning Huawei, HiSilicon CR Rel-18 38.331 18.2.0 4900 - A NR\_redcap-Core, NR\_redcap\_enh-Core

- ZTE thinks the CR is not needed because it is clear in RACH config common field description and this is just another way of achieving the same, but is incomplete. MediaTek wants to split the sentence to two, and also there should be more WI-codes on the cover page since its impacting more Wis.

* Postponed

Slicing

[R2-2406691](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406691.zip) Correction on Slicing based RACH Apple CR Rel-17 38.331 17.9.0 4884 - F NR\_slice-Core

[R2-2406692](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406692.zip) Correction on Slicing based RACH Apple CR Rel-18 38.331 18.2.0 4885 - A NR\_slice-Core

- LG thinks its clear from other parts of the spec, e.g. MAC. ZTE thinks it’s a good clarification. Vivo want to check more since its not clear from MAC specification but want to check more if RRC is clear enough.

* Postponed

71 GHz

[R2-2406838](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406838.zip) Discussion on missing PRACH SCS configuration CATT discussion Rel-17 NR\_ext\_to\_71GHz-Core

[R2-2406839](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406839.zip) Correction on the missing PRACH SCS configuration CATT CR Rel-17 38.331 17.9.0 4891 - F NR\_ext\_to\_71GHz-Core

[R2-2406840](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406840.zip) Correction on the missing PRACH SCS configuration CATT CR Rel-18 38.331 18.2.0 4892 - F NR\_ext\_to\_71GHz-Core, TEI18

- Samsung thinks this is correct, but there are interoperability issues so want a new field with a new capability. CATT thinks that if it has not been implemented then we can just agree the CR. Qualcomm thinks we can agree the CR.

* Both are agreed

SON/MDT - Mobility history info

[R2-2406990](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406990.zip) Miscellaneous corrections to mobility history information ZTE Corporation, Sanechips CR Rel-17 38.331 17.9.0 4907 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2406991](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406991.zip) Miscellaneous corrections to mobility history information ZTE Corporation, Sanechips CR Rel-18 38.331 18.2.0 4908 - A NR\_ENDC\_SON\_MDT\_enh-Core

- Huawei thinks the first change is an optimization and want to postpone it to R18, but are OK with change 2 and 3. Samsung would like to postpone the first change, the second and third are OK. Ericsson think that the first change is wrong since if the UE is in IDLE/INACTIVE the UE is not using DC and shouldn’t log it. Nokia agrees with Ericsson about the first change. CATT also want to postpone the discussion regarding the first change.

* The first change is postponed
* The second and third change are agreed unseen in R2-2407657 and R2-2407658

SON/MDT - Reestablishment at failed CHO

[R2-2407114](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407114.zip) Correction of reestablishmentCellId Nokia CR Rel-17 38.331 17.9.0 4924 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2407115](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407115.zip) Correction of reestablishmentCellId Nokia CR Rel-18 38.331 18.2.0 4925 - A NR\_ENDC\_SON\_MDT\_enh-Core

- Samsung thinks that the procedural text is good enough.

* Not pursued

SON/MDT - RA report

[R2-2407340](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407340.zip) Corrections for RA resource related parameters in RA report Sharp discussion Rel-17

- Samsung thinks understanding 3 is correct. Huawei agrees but wonder which release we should change from? Sharp wants it from Rel-17. Ericsson thinks that current spec is not broken so want to leave it as it is. Sharp is OK to leave the spec unchanged.

* RAN2 understands that understanding 3 is correct.

QoE

[R2-2407089](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407089.zip) Improvement of procedure text for QoE measurements Ericsson CR Rel-17 38.331 17.9.0 4923 - F NR\_QoE-Core

- Huawei think it would be bad NW configuration to setup QoE but not configure SRB4. Ericsson think the spec should be clear so the UEs know what to expect. CATT think that the target will provide the needed config. Samsung think the CR is correct but expect that the NW will always configure SRB4.

* Not pursued

MBS

[R2-2407144](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407144.zip) Clarification on MBS broadcast acquisition Samsung, CATT, Nokia, LG Electronics Inc., Ericsson, Apple, Qualcomm Incorporated CR Rel-17 38.331 17.9.0 4926 - F NR\_MBS-Core, NR\_SmallData\_INACTIVE-Core

[R2-2407150](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407150.zip) Clarification on MBS broadcast acquisition Samsung, CATT, Nokia, LG Electronics Inc., Ericsson, Apple, Qualcomm Incorporated CR Rel-18 38.331 18.2.0 4927 - A NR\_MBS-Core, NR\_SmallData\_INACTIVE-Core

- MediaTek thinks this should be captured in 5.9.1.1 and not in the section for MIB acquisition. MediaTek thinks the first change is fine as it is.

* [AT127][605][Maint] Example (Samsung)

Scope:

* + - Produce agreeable CRs

      Intended outcome:

* + - Agreed CRs in R2-2407644 and R2-2407645 (Samsung)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.

Power saving

[R2-2407371](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407371.zip) Clarification on the case the SIB17 is absent Google CR Rel-18 38.331 18.2.0 4947 - F NR\_UE\_pow\_sav\_enh-Core

* To be merged to RRC rapp CR but change to “*SIB17bis* is optionally scheduled if *SIB17* is not scheduled.”

CG-Config

[R2-2407428](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407428.zip) Discussion on indication of reserved SN-side NR-DC and aggregated BW resources Nokia discussion Rel-17 NR\_newRAT-Core, NR\_eMIMO-Core, NR\_BCS4-Core

[R2-2407429](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407429.zip) Correction to indication of reserved SN-side NR-DC and aggregated BW resources Nokia CR Rel-17 38.331 17.9.0 4952 - F NR\_newRAT-Core, NR\_eMIMO-Core, NR\_BCS4-Core

[R2-2407430](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407430.zip) Correction to indication of reserved SN-side NR-DC and aggregated BW resources Nokia CR Rel-18 38.331 18.2.0 4953 - F NR\_newRAT-Core, NR\_eMIMO-Core, NR\_BCS4-Core

- ZTE agrees with the intention, but a simpler approach is that we add a sentence to clarify in which cases the SN “indicates”. Ericsson agrees with ZTE approach. CATT also likes ZTE approach. Nokia is OK with the ZTE approach.

* [AT127][606][Maint] Indication of reserved SN-side resources (Nokia)

Scope:

* + - Produce agreeable CRs

      Intended outcome:

* + - Agreed CRs in R2-2407648 and R2-2407649 (Nokia)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.

Misc

[R2-2407519](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407519.zip) Miscellaneous non-controversial corrections Set XXII Ericsson CR Rel-16 38.331 16.17.0 4960 - F NR\_newRAT-Core, TEI16

[R2-2407081](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407081.zip) Miscellaneous non-controversial corrections Set XXII Ericsson CR Rel-17 38.331 17.9.0 4916 - F NR\_newRAT-Core, TEI17

[R2-2407082](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407082.zip) Miscellaneous non-controversial corrections Set XXII Ericsson CR Rel-18 38.331 18.2.0 4917 - A NR\_newRAT-Core, TEI18

Endorsed and to be updated in a post meeting email discussion.

* [Post127][601][RRC] Miscellaneous non-controversial corrections Set XXII (Ericsson)

Scope:

* + - Produce agreeable CRs

      Intended outcome:

* + - Agreed CRs in R2-2407650, R2-2407651 and R2-2407652 (Ericsson)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.
		- Friday morning session

NTN – Parallel cell lists

[R2-2407528](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407528.zip) Clarification on parallel lists in MeasObjectNR Samsung CR Rel-17 38.331 17.9.0 4961 - F NR\_NTN\_solutions-Core

[R2-2407529](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407529.zip) Clarification on parallel lists in MeasObjectNR Samsung CR Rel-18 38.331 18.2.0 4962 - F NR\_NTN\_enh-Core

* Both Agreed

NTN - smtc4list

[R2-2407300](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407300.zip) Clarification on smtc4list-r17 Huawei, HiSilicon CR Rel-17 38.331 17.9.0 4943 - F NR\_NTN\_solutions-Core

[R2-2407301](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407301.zip) Clarification on smtc4list-r17 Huawei, HiSilicon CR Rel-18 38.331 18.2.0 4944 - A NR\_NTN\_solutions-Core

- Nokia and Ericsson are not supportive. Qualcomm thinks that instead we should clarify what the UE is supposed to do in the scenarios described on the cover page.

- Huawei think at least we need to clarify that one PCI is in at most one list. Ericsson think that from 6.1.3 everything is clear on how released lists are handled.

* Postponed

NTN – Validity duration

[R2-2406467](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406467.zip) Clarification on Validity Duration vivo, Ericsson CR Rel-17 38.331 17.9.0 4877 - F NR\_NTN\_solutions-Core

[R2-2406468](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406468.zip) Clarification on Validity Duration vivo, Ericsson CR Rel-18 38.331 18.2.0 4878 - A NR\_NTN\_solutions-Core

* The whole sentence where this change is done, should be removed instead.
* [AT127][608][Maint] Clarification on Validity Duration (vivo)

Scope:

* + - Produce agreeable CRs

      Intended outcome:

* + - Agreed CRs in R2-2407661 and R2-2407662 (Company)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.

NTN – extended k1 range

[R2-2406225](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406225.zip) LS on inconsistent issue between extended k1 range and RRC parameter DL-DataToUL-ACK-v1700 for R17 NTN [R4-2409974](https://www.3gpp.org/ftp//tsg_ran/WG4_Radio/TSGR4_111/Docs//R4-2409974.zip); contact: CMCC) RAN4 LS in Rel-18 NR\_ATG To:RAN2 Cc:RAN1

*Moved from 7.25.1*

* Noted

[R2-2406862](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406862.zip) Discussion on the inconsistency issue in RAN4 LS [R2-2406225](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406225.zip) for Rel-17 NR NTN CATT discussion Rel-17 NR\_NTN\_solutions

*Moved from 7.25.1*

- Qualcomm want to do a change in R18 instead, it should be simple. CATT would be OK with that. Nokia think that RAN4 asks us to do the change in R17, but could be open to do from R18 and in that case we should tell RAN4 in an LS.

* Postponed.

[R2-2406845](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406845.zip) On the Inconsistency between extended k1 range and DL-DataToUL-ACK-v1700 (RAN4 LS) Nokia discussion Rel-18 NR\_ATG-Core

*Moved from 7.25.1*

Withdrawn and old revisions

[R2-2407080](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407080.zip) Miscellaneous non-controversial corrections Set XXII Ericsson CR Rel-16 38.331 16.17.0 4915 - F NR\_newRAT-Core, TEI16 Withdrawn

[R2-2407500](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407500.zip) Correction on mappingPattern for mTRP DG/CG PUSCH repetition schemes Nokia CR Rel-17 38.331 17.9.0 4958 - F NR\_FeMIMO-Core

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

FR1/FR2 diff

[R2-2406817](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406817.zip) Corrections to UE capabilities related to Rel-17 URLLC and RedCap Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core, NR\_redcap-Core

* The TPs are agreeable.
* [AT127][607][NR17] Corrections to UE capabilities related to Rel-17 URLLC and RedCap (Huawei)

Scope:

* + - Produce agreeable CRs

      Intended outcome:

* + - Agreed CRs in R2-2407653 and R2-2407654 (Huawei)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.

Enhanced channel raster

[R2-2407076](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407076.zip) Support of Enhanced channel raster by (e)RedCap UE Rel-17 Ericsson discussion Rel-17 NR\_redcap-Core

* Noted

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

# 7 Rel-18

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

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

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

### 7.13.1 Organizational

Ls in and Rapporteur input. WI/Spec Rapporteur(s) are invited to provide updated open issues lists that need to be handled.

[R2-2406218](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406218.zip) Reply LS on MDT for NPN ([R3-243892](https://www.3gpp.org/ftp//tsg_ran/WG3_Iu/TSGR3_124/Docs//R3-243892.zip); contact: Ericsson) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2 Cc:SA2, SA5

* Noted

[R2-2406219](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406219.zip) Reply LS to SA5 on improved KPIs involving end-to-end data volume transfer time analytics ([R3-243941](https://www.3gpp.org/ftp//tsg_ran/WG3_Iu/TSGR3_124/Docs//R3-243941.zip); contact: Nokia) RAN3 LS in Rel-18 NR\_AIML\_NGRAN-Core To:SA5 Cc:SA2, CT3, CT4, RAN2

* Noted

[R2-2407117](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407117.zip) Stage 2 alignments with stage 3 specification Nokia, NEC CR Rel-18 37.320 18.2.0 0136 - F NR\_ENDC\_SON\_MDT\_enh2-Core

- ZTE think that the second change is not correct since CHO recovery is not a clearly defined operation, current spec wording is correct. NEC think CHO recovery is used in 38.300.

* Agreed

[R2-2407338](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407338.zip) Miscellaneous corrections on R18 SONMDT for 36.331 Huawei, HiSilicon CR Rel-18 36.331 18.2.0 5050 - F NR\_ENDC\_SON\_MDT\_enh2-Core

*Moved from 7.13.2*

* Could put it in an editorial CR if there is a recommendation that we should write “included” rather than “set to true” and there is risk of misunderstanding. Should check with spec rapporteur

### 7.13.2 Corrections

[R2-2406997](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406997.zip) Miscellaneous SON corrections ZTE Corporation, Sanechips, CR Rel-18 38.331 18.2.0 4910 - F NR\_ENDC\_SON\_MDT\_enh2-Core

- Google agrees with the first change, but the second change does not cover all cases. Ericsson thinks the CR is not needed. Samsung agrees with Ericsson and even think that with this CR there would be some issues created, e.g. when the field should be released. ZTE would be OK for, regarding the second change, that we instead clarify that it is the source cell. Ericsson, Nokia, Qualcomm think it is a corner case and think current spec is OK.

* Not pursued. For the second change, even if it is a valid case, we think it is a rare case. Our understanding is that the UE logs the source cell.

[R2-2407000](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407000.zip) Corrections on SPR configuration CATT draftCR Rel-18 38.331 18.2.0 F NR\_ENDC\_SON\_MDT\_enh2-Core

- Samsung thinks that it is possible for inter-SN so the CR is not correct.

* Postponed

[R2-2407038](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407038.zip) RRC Corrections for SON/MDT Samsung, Ericsson discussion

Proposal 1: If attemptCondReconfig or attemptLTM-Switch are configured while initiating RRC Reestablishment procedure, UE keeps the successPSCell-Config configured by the PSCell. RIL S254 is closed.

Proposal 2: UE keeps the successHO-Config and successPSCell-Config during full configuration.

On P1:

- ZTE is OK with P1. Qualcomm doesn’t see the need for this.

On P2:

- ZTE thinks that the target can provide the field. Qualcomm doesn’t see the need for this, it is an enhancement. Samsung this there will be a misalignment between the UE and the NW. Ericsson think this proposal is needed to avoid misalignment. Huawei agrees this is needed.

* Try to find agreeable wording for a TP offline and merge with other changes to RRC, if any.
* [AT127][609][SONMDT] RRC Corrections for SON/MDT (Samsung)

Scope:

* + - Produce agreeable CR

      Intended outcome:

* + - Agreed CR in R2-2407663 (Samsung)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.

[R2-2407118](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407118.zip) RAN2 impacts of RAN3 reply LS on MDT for NPN ([R2-2406218](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406218.zip)/[R3-243892](https://www.3gpp.org/ftp//tsg_ran/WG3_Iu/TSGR3_124/Docs//R3-243892.zip)) Nokia discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

* The TP is agreeable and to be merged in the CR above.

[R2-2407217](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407217.zip) Addressing SONMDT issues Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

Proposal 2 RAN2 capture in the RRC spec that plmn-identityList is not included in case of MDT collection in SNPNs. E268 is closed.

Proposal 3 RAN2 agree that similar to the procedural text for CEF in public network UE compares the registered snpn-identity with the snpn- identity logged in VarConnEstFailReport when appending the VarConnEstFailReport to the VarConnEstFailReportlist.

Proposal 4 RAN2 agree to fix the missing correction in [R2-2405968] (changing VarConnEstFailReportlist to VarConnEstFailReport) in the next version of the RRC TS.

Proposal 5 RAN2 agree to the draft CRs in the annex of the paper.

* RAN2 capture in the RRC spec that plmn-identityList is not included in case of MDT collection in SNPNs. E268 is closed.
* RAN2 agree that similar to the procedural text for CEF in public network UE compares the registered snpn-identity with the snpn- identity logged in VarConnEstFailReport when appending the VarConnEstFailReport to the VarConnEstFailReportlist.
* RAN2 agree to fix the missing correction in [R2-2405968] (changing VarConnEstFailReportlist to VarConnEstFailReport) in the next version of the RRC TS.

[R2-2407337](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407337.zip) Correction to 38.306 on SON reports Huawei, HiSilicon CR Rel-18 38.306 18.2.0 1146 - F NR\_ENDC\_SON\_MDT\_enh2-Core

* Agreed

[R2-2407367](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407367.zip) SCG failure information in fast MCG recovery MRO Sharp discussion Rel-18

Proposal 1: remove “beamFailure” from the values of scg-FailureCause.

Proposal 2: Discuss whether UE records SCG failure information for fast MCG recovery failure in RLF report upon SCG failures due to synchReconfigFailureSCG, scg-ReconfigFailure, srb3-IntegrityFailure during fast MCG recovery procedure.

Proposal 3: Discuss how to capture case 8~10 in RRC specification if case 8~10 are valid cases for SCG failure during fast MCG recovery procedure.

On P1:

- Qualcomm does not agree since they think the cause value can happen in a deactivated state before the SCG failure happened. Sharp disagrees and think the procedural text says that in this case the UE uses another cause. Qualcomm is not convinced. Nokia think that even if the cause is not used in procedural text, the ASN.1 can be left as is.

On P2:

- Qualcomm think these are corner cases and do not need to be addressed. Ericsson agrees with Qualcomm. LG agrees with Qualcomm.

On P3:

-

* Noted. We consider the cases 8-10 to be corner cases.

[R2-2407373](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407373.zip) Correction on the successPSCell-Config handling Google CR Rel-18 38.331 18.2.0 4948 - F NR\_ENDC\_SON\_MDT\_enh2-Core

* Noted.

## 7.19 Enhanced support of reduced capability NR devices

(NR\_redcap\_enh-Core; leading WG: RAN1; REL-18; WID: [RP-232671](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_101/Docs//RP-232671.zip))

WI is declared 100% complete

Time budget: 0 TU

Tdoc Limitation: 1 Tdocs

### 7.19.1 Organizational

Incoming LSs, CR rapporteur’s miscellaneous non-controversial corrections, etc.

LS

[R2-2406205](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406205.zip) Reply LS on Rel-18 RedCap enhancements to address remaining ENs in TS 23.502 ([C1-243517](https://www.3gpp.org/ftp//tsg_ct/WG1_mm-cc-sm_ex-CN1/TSGC1_149_India/Docs//C1-243517.zip); contact: Huawei) CT1 LS in Rel-18 NR\_redcap\_enh-Core To:SA2 Cc:CT4, RAN2, RAN3

* Noted

Misc CRs

[R2-2407314](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407314.zip) Miscellaneous corrections on TS 38.304 for eRedCap Huawei, HiSilicon CR Rel-18 38.304 18.2.0 0411 - F NR\_redcap\_enh-Core, NR\_redcap-Core

- Qualcomm think we should do a general cleanup of the part of the spec impacting barring. Ericsson agrees with Qualcomm.

* Agreed

Withdrawn

[R2-2407554](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407554.zip) Miscellaneous corrections on TS 38.321 for eRedCap vivo (Rapporteur) CR Rel-18 38.321 18.2.0 1920 - F NR\_redcap\_enh-Core Withdrawn

### 7.19.2 Other

*Critical corrections, if any.*

[R2-2406442](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406442.zip) Discussion on 2-step RACH for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

- LG think that current spec is correct. NEC agrees with LG. QC think that current spec (MAC and RRC) are clear and correct. Huawei supports vivos proposal and think that eRedCap UEs cannot use RedCap 2-step RA resources. Vivo want to confirm that current spec is clear and correct but would like to align companies understanding.

* RAN2 confirms that eRedCap UE can use 2-step RedCap resources when there is no set associated with eRedCap. No change to the spec is expected due to this confirmation.

[R2-2407315](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407315.zip) Corrections on some features application to (e)RedCap UE Huawei, HiSilicon draftCR Rel-18 38.306 18.2.0 NR\_redcap\_enh-Core, NR\_redcap-Core

* Agreed in R2-2407656

Withdrawn

[R2-2407534](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407534.zip) MAC correction for eRedCap ZTE Corporation, Sanechips CR Rel-18 38.321 18.2.0 1919 - F NR\_redcap\_enh-Core

## 7.21 Further NR coverage enhancements

(NR\_cov\_enh2-Core; leading WG: RAN1; REL-18; WID: [RP-221858](https://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_96/Docs//RP-221858.zip))

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

### 7.21.1 Organizational

Incoming LSs, Rapporteur input etc.

Editorials/clarifications should not be included in any tdoc but sent to the WI spec rapporteurs, who can submit a rapporteur CR as part of this AI.

Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

[R2-2407419](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407419.zip) Miscellaneous corrections for further NR coverage enhancements in RRC Huawei, HiSilicon CR Rel-18 38.331 18.2.0 4951 - F NR\_cov\_enh2-Core

* Second changes (IE name to field name) is agreeable.
* Incorporate first change from R2-2407275
* Incorporate R2-2407278
* Agreed unseen in R2-2407640

[R2-2407517](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407517.zip) Miscellaneous corrections on further NR Coverage enhancements in MAC ZTE Corporation CR Rel-18 38.321 18.2.0 1918 - F NR\_cov\_enh2-Core

* Agreeable and to be updated to capture changes from R2-2407420. Agreed unseen in R2-2407641

### 7.21.2 Other Essential corrections

[R2-2406811](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406811.zip) Addition of missing prerequisite in the description of capability dynamicWaveformSwitchIntraCA-r18 Lenovo draftCR Rel-18 38.306 18.2.0 NR\_cov\_enh2-Core

* Endorsed to be merged with mega capability CR

[R2-2406922](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406922.zip) Conditional Presence for absence of field preambleTransMax-Msg1-Repetition Ericsson CR Rel-18 38.331 18.2.0 4897 - F NR\_cov\_enh2-Core

* Not pursued

[R2-2407275](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407275.zip) RRC Correction on Msg1 based SI request with Msg1 Repetition Philips International B.V. CR Rel-18 38.331 18.2.0 4941 - F NR\_cov\_enh2-Core

* First change is agreeable, to be merged to an update of R2-2407419

[R2-2407278](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407278.zip) Correction on posSIB(s) acquisition for Msg1 based SI request with Msg1 Repetition [TEI17 SI-SCHEDULING] Philips International B.V., Ericsson CR Rel-18 38.331 18.2.0 4942 - F TEI17, NR\_cov\_enh2-Core

* The change is agreeable to be merged to an update of R2-2407419

[R2-2407420](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407420.zip) Clarifications on initilization of RACH parameters during repetition fallback Huawei, HiSilicon CR Rel-18 38.321 18.2.0 1911 - F NR\_cov\_enh2-Core

* First change and option 1 in the CR is agreeable to be merged to update of R2-2407517.

# 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.

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

LTM, CHO with candidate SCGs, subsequent CPAC

LTM

[R2-2407333](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407333.zip) Discussion on MRO enhancements for Rel-18 mobility features Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

*Focus on P1-P7*

Proposal 1: only the field description associated to the timeConnFailure IE needs to be updated accordingly. Otherwise, no specification impact for timeConnFailure and reconnectCellId is foreseen.

Proposal 2: introduce a new field in RLF report to indicate the LTM recovery cell.

Proposal 3: RAN2 include the specific access type in the RLF report, i.e. whether it is RA-based or RA-less cell switch.

Proposal 4: RAN2 include in the RLF report whether the network provides the TA in the cell switch command.

Proposal 5: RAN2 include in the RLF report the time since the last reception of PDCCH order towards the target cell till reception of cell switch command.

Proposal 6: In case the UE is configured with LTM config, the RA-based access could be one triggering condition for the SHR report.

Proposal 7: In case the UE is configured with LTM config, the HO interruption time could be one triggering condition for the SHR report.

For P3:

- Vivo think the NW can know this already. Huawei think that it may be implicitly known.

P4:

- Lenovo think the UE context makes this clear. Qualcomm wonders what the use is? LG thinks there are good use for this. Samsung think it is not useful. ZTE supports the proposal. Ericsson think we can leave TA-related details to a later discussion.

P5:

- Qualcomm think the NW should know this. Huawei think network can know but the PDCCH order is L1 signal so its complex for the NW to know this. Samsung is not supportive.

P6:

- vivo think the SHR is for near failure but RACH based is not near failure, hence is not supportive. Nokia likes P6 since RA is an indication that LTM almost failed. CATT want to first confirm that the legacy conditions can be reused. CATT is supportive of P6 though. Samsung think that T304 condition is sufficient and NW can set good thresholds. Qualcomm agrees with Samsung. ZTE agrees with Samsung and Qualcomm.

P7:

- LG and vivo thinks this is like T304 threshold.

* Only the field description associated to the timeConnFailure IE needs to be updated accordingly. Otherwise, we don’t expect any further specification impact for timeConnFailure and reconnectCellId is foreseen, TBC.
* introduce a new field in RLF report to indicate the LTM recovery cell id.
* RAN2 include the specific access type in the RLF report, i.e. whether it is RA-based or RA-less cell switch. FFS details, e.g. if explicit or implicitly signalled.
* We do not include in the RLF report, the time since the last reception of PDCCH order towards the target cell till reception of cell switch command.
* RA-based access will not be a new triggering condition for the SHR report.
* HO interruption time will not be a new triggering condition for the SHR report

[R2-2407064](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407064.zip) Discussion on MRO enhancement for LTM China Unicom discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal 1: Reuse the existing approach of using timeUntilReconnection in RLF-report also for LTM failure scenarios.

Proposal 2: Define and log timeSinceLTM-Reconfig (like timeSinceCHO-Reconfig) within RLF-report and SHR in LTM failure and near failure cases.

Proposal 3: RAN2 to discuss whether to log the following timing information in SON reports (e.g. RLF report) for LTM:

T3: the lapsed time between UE obtains the target cell TA measured by itself and the moment UE receives the cell switch command

T3’: the elapsed time between UE sends preamble according to PDDCH order and the moment UE receives the cell switch command

Proposal 4: RAN2 to discuss whether to log interruption time in SON reports (e.g. SHR) for LTM. The interruption time is defined as the elapsed time between UE receives cell switch command and the moment UE completes the first DL/UL reception/ transmission on the indicated beam of the target cell.

Proposal 5: Define and log ltmCandidate (similar like choCandidate) in SHR to indicate whether a neighbour cell is an LTM candidate cell or not.

Proposal 6: If available, log L3 measurements for serving cell, target cell and other LTM candidate cells in RLF report, upon RLF or mobility failure.

On P1:

-

On P2:

- Qualcomm is not sure about the usage, long/short time does not tell you much, could have to do with UE mobility. Ericsson think that it is available for CHO so they want it for LTM too. Lenovo think CHO is different since for CHO the UE triggers the CHO, while for LTM it’s the NW that is in control and NW can know. Ericsson think here we talk about failure. CMCC want to limit it to failure cases. Qualcomm is not happy even if limited to failure. Vivo think this is useless.

On P3:

- vivo think we can skip this as it has with TA info to do. CMCC think we should do it for UE based TA acquisition. CMCC think the info is good to know if the sync info is valid or poor and resulted in a failure. Ericsson agrees with CMCC. Samsung does not understand what is the point of this. Qualcomm think the info can be deduced from info if the UE did RA or RA-less. ZTE agrees with the proposal since a failure may be due to poor sync and the NW wants to know this. LG agrees with ZTE.

On P4:

- ZTE think we that we have UP interruption and that is perhaps good enough. Lenovo think the is not interested in this.vivo think T304 threshold is good enough. LG agrees with vivo. Nokia think this is not needed.

On P5:

- Samsung think it is useful but may be known from other info, want to wait to see.

On P6:

- vivo are OK with this but think it exists already.

* Reuse the existing approach of using timeUntilReconnection in RLF-report also for LTM failure scenarios.
* We will not define and log timeSinceLTM-Reconfig (like timeSinceCHO-Reconfig) within RLF-report and SHR in LTM failure and near failure cases.
* We will not log interruption time in SON reports (e.g. SHR) for LTM.
* We aim to log some info to deduce the ltmCandidate (similar like choCandidate) in SHR to indicate whether a neighbour cell is an LTM candidate cell or not, TBD if explicit/implicit.
* Log L3 measurements for serving cell, target cell and other LTM candidate cells in RLF report, upon RLF or mobility failure. RAN2 assumes this is already possible with existing spec.

CHO with candidate SCGs

[R2-2407052](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407052.zip) MRO enhancements for Rel-18 mobility features Samsung discussion

*Focus on P3-1 and P3-2*

Proposal 3-1: UE includes following information in RLF report/SCGFailureInformation and SHR/SPR:

a. Identifier of fulfilled execution conditions for CHO and CPC

b. Time between fulfilment of CHO/CPC conditions and the occurrence of failure/near failure.

c. Measurement results of PCells and PSCells which are candidates for CHO with SCG.

Proposal 3-2: UE includes conditional reconfiguration identifier of the fulfilled condition in RLF report/SHR.

- Lenovo does not think a) is needed. LG are OK with a) but to focus on RLF report for now and need more time for the other messages. Qualcomm also do not understand what info a) mean and also only want to do RLF report. ZTE are OK with b and c, but want to think more about which messages. CMCC explains that for a) there are different sets of conditions. Qualcomm wonders about the details about a). Huawei think that we can focus on RLF report for now.

* UE includes following information in RLF report:

b. Time information regarding condition fulfilment for CHO with candidate SCGs. Details are FFS. We consider both the case when both CHO condition and associated CPC condition are fulfilled, and the case when CHO (or CPC) is fulfilled but CPC (or CHO) conditions are not fulfilled.

c. Measurement results of PCells and PSCells.

[R2-2407005](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407005.zip) Discussion on MRO Enhancements for Mobility CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

*Focus on P5-P7*

Proposal 5: For bullet “CHO with candidate SCG” in MRO enhancement for mobility, also consider the R18 leftover scenario of “CHO with target SCG”.

Proposal 6: RAN2 to consider how to associate the MCG failure/near failure and SCG failure/near failure information with the following two options:

Option 1: UE records the MCG failure/near failure and SCG failure/near failure information in the same report;

Option 2: UE records the MCG failure/near failure and SCG failure/near failure information in different reports, and the association information is needed in the two reports.

Proposal 7: The timing different threshold between PCell execution condition being fulfilled and PSCell execution condition being fulfilled is considered as the trigger condition for successful CHO with candidate SCGs execution.

Subsequent CPAC

[R2-2406959](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406959.zip) Discussion on MRO enhancements for R18 mobility features CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

*Focus on P12*

Proposal 12: Include the subsequent CPAC related information in MHI, e.g. the visited SCPAC candidate PSCell(s), the time stays in the candidate PSCell(s), the PSCell(s) measurement result with the indication about the PSCell(s) is for SCPAC, etc.

- LG is OK with the proposal, but this seems to be existing already. Qualcomm agrees. Lenovo wants to check the spec in more detail. Session chair thinks that companies seem to need more time to check the spec and we can come back to this next meeting.

[R2-2406883](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406883.zip) Discussion on MRO for R18 mobility Lenovo discussion Rel-19

*Focus on P11 and P12*

Proposal 11: An indication concerning the SCG Failure Information message is for an initial CPAC execution or a following subsequent CPC execution may be included in the SCG Failure Information message.

Proposal 12: RAN2 to discuss whether SPR can be reused for subsequent CPAC.

[R2-2406527](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406527.zip) Discussion on random access report for LTM ASUSTeK discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407065](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407065.zip) Discussion on MRO enhancement for CHO with candidate SCGs China Unicom discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407094](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407094.zip) MRO enhancements for LTM NEC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407029](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407029.zip) MRO for Rel-18 mobility ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407095](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407095.zip) MRO for CHO with candidate SCG(s) NEC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407099](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407099.zip) MRO enhancement for SON and MDT Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407105](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407105.zip) MRO for R18 Mobility LG Electronics discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407119](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407119.zip) MRO for LTM Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407120](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407120.zip) MRO for CHO with candidate SCG Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407122](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407122.zip) Configuring UE based TA acquisition for LTM Rakuten Mobile, Inc discussion Rel-19

[R2-2407191](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407191.zip) SON/MDT reports for LTM Kyocera discussion

[R2-2407218](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407218.zip) SON support for MRO Ericsson discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407362](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407362.zip) Discussion on MRO enhancement for R18 mobility features Sharp discussion

[R2-2407386](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407386.zip) MRO for Rel-18 mobility features vivo discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.3 SON/MDT for Slicing

No contributions are expected and this AI will not be treated in RAN2#127, in wait for RAN3 progresses

### 8.10.4 SON/MDT for NTN

No contributions are expected and this AI will not be treated in RAN2#127, in wait for RAN3 progresses

[R2-2407106](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407106.zip) Logging for Unchanged PCI Mobility in NTN LG Electronics discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.5 Leftovers from Rel-18

RACH optimization for SDT, MHI Enhancement for SCG Deactivation/Activation, MRO for MR-DC SCG failure

SCG act/deact info

[R2-2406986](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406986.zip) MHI Enhancement for SCG Deactivation/Activation CMCC, CATT, Ericsson, ZTE, Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

Proposal: Include in MHI the information of SCG activation/deactivation, e.g., the time of SCG activation, or percentage of time that SCG activation.

[R2-2407100](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407100.zip) SON and MDT Rel-18 leftover issues Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

*Focus on P3*

Proposal 3 Send LS to RAN3 to confirm the feasibility of network based solution for collecting percentage of time spent in the PSCell in activated state or deactivated state.

- Qualcomm think the NW can figure this out. Nokia agrees. CMCC think the IDLE/INACTIVE cases can only be logged by the UE. ZTE agrees with CMCC that the MHI can log thinks which the UHI cannot. Nokia is not sure about the point of having this information for IDLE. ZTE think it is not about act/deact in IDLE, it is about MHI that the UE shall indicate time of stay. Huawei think there are some unclarities and want more time.

* It is beneficial for the network to have information about time spent in the PSCell in activated state vs. deactivated state.
* Send an LS to RAN3 to ask if a NW solution is good enough to achieve the agreement above, or if a UE based solution is needed.
* [Post127][603][SONMDT] SCG act/deact info (CMCC)

Scope:

* + - Produce approvable LS

      Intended outcome:

* + - Approved LS in R2-2407664 (CMCC)

     Deadline:

* + - Short

MR-DC SCG failure

[R2-2406884](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406884.zip) Discussion on MRO for MR-DC SCG failure Lenovo discussion Rel-19

Proposal 1: To support MRO for SCG failure in EN-DC, enhance SCGFailureInformationNR message to include previousPSCellId, failedPSCellId, timeSCGFailure and RA info.

Proposal 2: To support MRO for SCG failure in EN-DC, RAN2 to discuss whether to introduce a new inter-node message or reuse the CG-ConfigInfo inter-node message to forward SCG failure information from MN to SN.

* To support MRO for SCG failure in EN-DC, enhance SCGFailureInformationNR message to include previousPSCellId, failedPSCellId, timeSCGFailure.

SDT

[R2-2407037](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407037.zip) SON/MDT enhancements for leftover topics from R18 Samsung discussion

*Focus on P3 and P4*

Proposal 3: If the UE evaluates if it should perform SDT, UE logs sdt-RSRP-Threshold.

Proposal 4: UE logs the following failure causes of SDT to the network:

• if indication from the MCG RLC that the maximum number of retransmissions has been reached is received while SDT procedure is ongoing.

• if random access problem indication is received from MCG MAC while SDT procedure is ongoing.

• if the lower layers indicate that cg-SDT-TimeAlignmentTimer or the configuredGrantTimer expired before receiving network response for the UL CG-SDT transmission with CCCH message while SDT procedure is ongoing.

• if integrity check failure indication is received from lower layers while SDT procedure is ongoing.

• if T319a expires.

* Do not add logging of sdt-RSRP-Threshold, since already agreed by RAN3 to not support it.
* UE logs and reports the failure cause for SDT to the network. FFS the details, e.g. if we down select some of the failure causes.

[R2-2407006](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407006.zip) Consideration on leftovers from Rel-18 SONMDT CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407030](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407030.zip) Rel-18 leftovers for SON MDT ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407249](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407249.zip) On Rel.18 leftovers Ericsson discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407334](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407334.zip) Discussion on support of the Rel-18 leftovers Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2407364](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407364.zip) Discussion on R18 leftovers for SON MDT Sharp discussion

[R2-2407387](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2407387.zip) RACH optimization for SDT vivo discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

# Summary

**Email discussions:**

[ [AT127][600] Organizational – Maintenance, Covenh, SON/MDT and eRedCap (Ericsson)](#_Toc175146245)

[ [AT127][601][MBMS] Correction to MIB-MBMS systemFrameNumber (Qualcomm)](#_Toc175146246)

[ [AT127][602][Maint] mps-PriorityAccess cause in RRC resume (Peraton Labs)](#_Toc175146247)

[ [AT127][603][Maint] Parallel Tx capability (Ericsson)](#_Toc175146248)

[ [AT127][604][FeMIMO] LS to RAN1 on power control parameters (Ericsson)](#_Toc175146249)

[ [Post127][602][FeMIMO] Power control parameters to support unified TCI state framework (Ericsson)](#_Toc175146250)

[ [AT127][605][Maint] Example (Samsung)](#_Toc175146251)

[ [AT127][606][Maint] Indication of reserved SN-side resources (Nokia)](#_Toc175146252)

[ [Post127][601][RRC] Miscellaneous non-controversial corrections Set XXII (Ericsson)](#_Toc175146253)

[ [AT127][608][Maint] Clarification on Validity Duration (vivo)](#_Toc175146254)

[ [AT127][607][NR17] Corrections to UE capabilities related to Rel-17 URLLC and RedCap (Huawei)](#_Toc175146255)

[ [AT127][609][SONMDT] RRC Corrections for SON/MDT (Samsung)](#_Toc175146256)

[ [Post127][603][SONMDT] SCG act/deact info (CMCC)](#_Toc175146257)

[ [AT127][6XX][WI-code] Example (Company)](#_Toc175146258)

**Comebacks:**

No table of figures entries found.

**NBC CRs:**

[R2-2406839](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406839.zip) Correction on the missing PRACH SCS configuration CATT CR Rel-17 38.331 17.9.0 4891 - F NR\_ext\_to\_71GHz-Core

[R2-2406840](https://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_127/Docs//R2-2406840.zip) Correction on the missing PRACH SCS configuration CATT CR Rel-18 38.331 18.2.0 4892 - F NR\_ext\_to\_71GHz-Core, TEI18

# Note to self (For Mattias)

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

R2-2407631 Draft LS to RAN1 on power control parameters Ericsson

R2-2407632 Correction to MIB-MBMS systemFrameNumber field description Qualcomm

R2-2407633 Alignment of mps-PriorityAccess cause in RRC resume Peraton Labs

R2-2407634 Correction on Transport Channels Philips

R2-2407635 Parallel Tx capability Ericsson

R2-2407636 Parallel Tx capability Ericsson

R2-2407637 Clarification on increasedNumberofCSIRSPerMO Huawei

R2-2407638 Clarification on increasedNumberofCSIRSPerMO Huawei

R2-2407639 Clarification on increasedNumberofCSIRSPerMO Huawei

R2-2407640 Miscellaneous corrections for further NR coverage enhancements in RRC Huawei

R2-2407641 Miscellaneous corrections on further NR Coverage enhancements in MAC ZTE Corporation

R2-2407642 Correction on featureCombination and SI-RequestConfig ZTE

R2-2407643 Correction on featureCombination and SI-RequestConfig ZTE

R2-2407644 Clarification on MBS broadcast acquisition Samsung

R2-2407645 Clarification on MBS broadcast acquisition Samsung

R2-2407646 Correction to indication of reserved SN-side NR-DC and aggregated BW resources Nokia

R2-2407647 Correction to indication of reserved SN-side NR-DC and aggregated BW resources Nokia

R2-2407648 Correction to indication of reserved SN-side NR-DC and aggregated BW resources Nokia

R2-2407649 Correction to indication of reserved SN-side NR-DC and aggregated BW resources Nokia

R2-2407650 Miscellaneous non-controversial corrections Set XXII Ericsson

R2-2407651 Miscellaneous non-controversial corrections Set XXII Ericsson

R2-2407652 Miscellaneous non-controversial corrections Set XXII Ericsson

R2-2407653 Corrections to UE capabilities related to Rel-17 URLLC and RedCap Huawei

R2-2407654 Corrections to UE capabilities related to Rel-17 URLLC and RedCap Huawei

R2-2407655 LS to RAN1 on power control parameters Ericsson

R2-2407656 Corrections on some features application to (e)RedCap UE Huawei

R2-2407657 Miscellaneous corrections to mobility history information ZTE

R2-2407658 Miscellaneous corrections to mobility history information ZTE

R2-2407659 Correction on power control parameters to support unified TCI state framework Ericsson

R2-2407660 Correction on power control parameters to support unified TCI state framework Ericsson

R2-2407661 Clarification on Validity Duration Vivo

R2-2407662 Clarification on Validity Duration vivo

R2-2407663 RRC Corrections for SON/MDT Samsung

R2-2407664 LS to RAN3 on SCG act/deact info CMCC

R2-2407665

R2-2407666

R2-2407667

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R2-2407692

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R2-2407694

R2-2407695

R2-2407696

R2-2407697

R2-2407698

R2-2407699

R2-2407700

**Templates:**

* [AT127][6XX][WI-code] Example (Company)

Scope:

* + - Produce agreeable CRs
		- Produce approvable LS

      Intended outcome:

* + - Agreed CRs in X (Company)
		- Approved LS in X (Company)

     Deadline:

* + - Thursday lunch. Intention is to agree the CRs over email.
		- Friday morning session