3GPP TSG-RAN WG2 Meeting #123 R2-2xxxxxx

Toulouse, France, August 21-25, 2023

Source: RAN2 Chairman (MediaTek)

Title: Agenda

# 1 Opening of the meeting

## 1.1 Call for IPR

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| The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs** they become aware of.  The delegates were asked to take note that they were hereby invited:   * to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP. * to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc) |

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG2 Chairman.

## 1.2 Network usage conditions

1/ To avoid email system overload, please don’t attach files and documents to emails e.g. for offline email discussions, but instead use files placed on the meeting server instead. Inbox/Drafts folder is used for meeting offline discussions.

## 1.3 Other

|  |
| --- |
| In accordance with the Working Procedures it is reaffirmed that:  (i) compliance with all applicable antitrust and competition laws is required;  (ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and  (iii) the chairman will conduct the meeting with strict impartiality and in the interests of 3GPP |

Note on (i): In case of question please contact your legal counsel.

Note on (ii): WIDs don’t need to be submitted to the RAN2 meeting and will typically not be discussed here either.

# 2 General

## 2.1 Approval of the agenda

[R2-2307000](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307000.zip) Agenda for RAN2#123 Chairman agenda

* approved

## 2.2 Approval of the report of the previous meeting

[R2-2307001](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307001.zip) RAN2#122 Meeting Report MCC report

* approved

## 2.3 Reporting from other meetings

## 2.4 Instructions

Rel-18 CR Handling

- Current Plan: Rel-18 R2 Functional Freeze is Q4 2023, i.e. Rel-18 TSes need to be created at latest at this point in time.

- CRs for all Rel-18 WIs to be agreed at RAN2#124 (November 2023). Running Draft CRs need to be updated to be real CRs.

- Previously in-principle-agreed Rel-18 CRs (e.g. for TEI18 or WIs ending before November 2023) need to be updated towards the latest TS version and submitted for final CR agreement at RAN2#124 (CR editor / proponent need to do this).

- Such CRs do not need to be resubmitted to intermediate meetings before RAN2#124.

- Such CR may be superseded by revision due to correction, which is in-principle agreed (see bullet below). CR editor / proponent should be ready to handle such revisions.

- For WG meetings until functional freeze (including this) it is possible to maintain and revise Rel-18 CRs, also in-principle-agreed Rel-18 CRs, also for WIs with no TU budget (they are kept in the agenda for this purpose). It is better to fix issues now rather than wait for ASN.1 review.

- For revision proposals for Rel-18 CRs/DraftCRs, use TPs attached to discussion documents or DraftCRs (Includes current running Rel18 CRs or update of in-principle agreed Rel-18 CRs)

- CR editors / Rapporteurs are requested to continue even after close of their respective WIs to support maintenance related to their respective CR / WI.

Rel-18 RRC parameters and MAC CEs

- RRC parameters, including those requested by other groups, e.g. RAN1, are covered by WI-specific RRC CRs.

- MAC CE parameters, including those requested by other groups, e.g. RAN1, are covered by WI-specific MAC CRs

- For information see also R2-2306732, LS on Signalling alternatives, from R2#122.

Rel-18 UE capabilites

- Handling in RAN2 is expected similar to Rel-17.

- For information see also R2-2306810 Further Guidelines on UE capability definitions LS out, from R2#122.

Expected Outcomes

- EUTRA UE capabilities are covered in WI-specific CRs.

- NR UE capabilities are covered in Rel-18 common MegaCRs (38306 and 38331) covering all rel-18 WIs (end outcome).

- UE capabilities in LPP 37355 are covered in CR for the Positioning WI.

During the work on NR UE caps:

- In a Common Rel-18 Agenda Item (AI): RAN1 and RAN4 features are handled jointly under a common AI, with some explicit exceptions. Running UE cap MegaCRs are maintained for the parts handled in the common AI.

- In WI-specific Rel-18 Agenda Items: RAN2 features are handled per WI. Case-by-case, for selected WIs, RAN1 and RAN4 features handled specifically per WI. The outcomes are covered in WI-specific Running CRs (draft CRs). It is expected that WI-specific UE cap running CRs will be merged with the Running Mega CRs only at/after RAN2#124.

Tdoc limitations

Tdoc limitations doesn’t apply to Rapporteur Input, i.e.

- Assigned summary rapporteur input of the summary.

- Email / offline discussions outcomes by discussion rapporteur,

- WI rapporteurs input for WI planning etc,

- TS rapporteur input for TS maintenance.

- Contact Company of a LSin that triggers RAN2 action may submit one tdoc to facilitate the LS reply. This only applies to one of the contact companies in case there are several (default the first).

Tdoc limitations doesn’t apply to Input created at the meeting, revisions, assigned documents etc.

Tdoc limitations doesn’t apply to shadow / mirror CRs (Cat A), or In-Principle Agreed CRs.

Tdoc limitations applies to all other submitted tdocs (e.g. discussion tdoc and CR tdoc are counted as two).

## 2.5 Others

RAN2 election

Chair, 1st Vice Chair, and 2nd Vice Chair are to be elected.

- See 3GPP web page, where Candidate Nomination information is posted.

- Elections are handled in the Main Room and by electronic voting, and is done in the following order: Chair, 1st Vice Chair, 2nd Vice Chair.

- Nominations may be made up to the point when an election takes place.

Chair election:

- Chair Candidate nominations are confirmed Monday Morning. If more than one candidate is nominated (at present there are two candidates), voting for Chair will take place starting Tuesday, pl see the schedule

1st Vice Chair election:

- Once Chair has been elected (likely Tuesday), 1st Vice Chair Candidate Nominations are confirmed. If more than one candidate is nominated (at present there is only one candidate), voting will take place starting Wednesday. In case only one candidate stands he/she can be elected immediately by acclamation.

2nd Vice Chair election:

- Once 1st Vice Chair has been elected, 2nd Vice Chair Candidates Nominations are confirmed. If more than one candidate is nominated (at present there are three candidates), voting will take place starting Wednesday.

- If further voting rounds for Vice Chair are needed, they will take place Thursday and will be added to the schedule.

- See also the Meeting Schedule, and particular instructions for the voting tool.

Election Chair (Aug 22)

Ms Diana Pani 229 Votes / 59.5%

InterDigital Communications / ATIS

Mr Mattias Bergstrom 156 Votes / 40.5%

LM Ericsson / ETSI

Abstain 2 Votes

- Mattias withdraws after 1st round

* Ms Diana Pani is elected R2 Chair

Election 1st Vice Chair (Aug 22)

Mr Kyeongin Jeong

Samsung Electronics Co., Ltd / TTA

* Mr Kyeongin Jeong is elected 1st Vice Chair by Acclamation

Election 2nd Vice Chair (Aug 23)

Dr Erlin Zeng 175 Votes / 44.8%

CATT / CCSA

Mr Eswar Vutukuri 115 Votes / 29.4%

ZTE Corporation / CCSA

Mr Yi Guo 101 Votes / 25.8%

Intel / ATIS

Abstain 3

- Yi Guo withdraws after the 1st round

Election 2nd Vice Chair - 2nd Round (Aug 24)

Dr Erlin Zeng 209 Votes / 54.9%

CATT / CCSA

Mr Eswar Vutukuri 172 Votes / 45.1%

ZTE Corporation / CCSA

Abstain 6

* Dr Erlin Zeng is elected 2nd Vice Chair

**Rapporteur changes**

**Spec former rapporteur proposed new rapporteur**

38.306 Seau-Sian Lim (Intel) Ziyi Li (Intel)

38.822 Seau-Sian Lim (Intel) Ziyi Li (Intel)

* rapporteur changes approved

General

[R2-2307002](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307002.zip) RAN2 Handbook MCC discussion

* noted

[R2-2308741](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308741.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308741.zip) Guidance for IAB/NCR CRs on checking the box of ME Huawei, HiSilicon discussion NR\_IAB-Core, NR\_netcon\_repeater, NR\_newRAT-Core

- Ericsson agrees to state this in the impact analysis, not sure about the ME box.

- Samsung think also the network is often not “ticked”, but agree with Ericsson that we should state this in the impact analysis.

* If IAB-MT or NCR-MT, this shall be covered in the impact analysis.

CB on ticking the ME box, offline 010

R2-2309222 Guidance for IAB/NCR CRs on checking the box of ME Huawei, HiSilicon discussion NR\_IAB-Core, NR\_netcon\_repeater, NR\_newRAT-Core

* RAN2 endorses the following principle:

If the changes from one IAB/NCR CR affect at least one of types, including IAB-MT and NCR-MT, the ME box in the cover page should be also checked. It should be clarified in the “Impact Analysis” part whether IAB-MT or NCR-MT (or both) are affected.

* To be captured in R2 handbook see TP

# 3 Incoming liaisons

Note: LSs are moved to the respective agenda items if any.

[R2-2307071](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307071.zip) Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks (S3-233321; contact: Qualcomm) SA3 LS in To:GSMA CVD Cc:CT1, RAN2

- Chair: RAN2 is CCed, However there are some proposals under TEI18 that are applicable. However 2, there is also an updated LS in, under the TEI18 AI, so this one can be simply Noted.

* noted

# 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)

(UPIP\_EN-DC\_UE; leading WG: RAN3; REL-17; WID: RP‑213669)

(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); 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: RP192875;), 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);

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

REL-15 and Earlier EUTRA WIs are in scope but not listed explicitly (long list), Except V2X and Sidelink WIs and Positioning WIs, which are adressed 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 EUTRA Breakout session

[R2-2307514](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307514.zip) MAC correction on drx-InactivityTimer for eMTC and NB-IOT UE Xiaomi CR Rel-17 36.321 17.5.0 1568 - F NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2307631](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307631.zip) Correction to enable flightPathInfoAvailable indication when connected to 5GC Qualcomm Incorporated discussion Rel-15 LTE\_Aerial-Core

[R2-2308760](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308760.zip) Correction on alternative cell reselection priority Google Inc. CR Rel-16 36.331 16.12.0 4949 - F TEI16

[R2-2308762](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308762.zip) Correction on alternative cell reselection priority Google Inc. CR Rel-17 36.331 17.5.0 4950 - A TEI16

## 4.2 NB-IoT and eMTC support for NTN Rel-17

(LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; WID: RP-211601)

Tdoc Limitation: 1 tdocs

This Agenda Item is treated in the Breakout session that includes NTN

A single CR per TS with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed with contributions with CR in the appendix of the contribution

[R2-2307188](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307188.zip) Clarify the reference point for timing info in SIB16(-NB) and DLInformationTransfer in IoT NTN MediaTek Inc., Qualcomm Inc, Apple, Ericsson, Huawei CR Rel-17 36.331 17.5.0 4937 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2307324](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307324.zip) Corrections on the HARQ RTT timer for IoT NTN MediaTek CR Rel-17 36.321 17.5.0 1567 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2307325](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307325.zip) Correct TrackingAreaList for selected PLMN for NB-IoT MediaTek CR Rel-17 36.331 17.5.0 4938 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2307499](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307499.zip) Discussion on UTC reference point in IoT NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2308227](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308227.zip) Reference point for UTC timing in SIB16(-NB) Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2308522](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308522.zip) Miscellaneous RRC corrections for IoT NTN ZTE Corporation, Sanechips CR Rel-17 36.331 17.5.0 4945 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2308538](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308538.zip) Correction to GNSS acquisition description for IoT NTN Ericsson CR Rel-17 36.300 17.5.0 1386 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2308893](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308893.zip) RRC Correction on including GNSS validity duration and dedicated SIB31 Samsung CR Rel-17 36.331 17.5.0 4952 - F LTE\_NBIOT\_eMTC\_NTN

## 4.3 V2X and Sidelink corrections Rel-15 and earlier

REL-15 and Earlier WIs related to V2x and Sidelink are in scope but not listed explicitly (long list).

This Agenda Item is treated in the V2X and Sidelink Breakout session

## 4.4 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).

This Agenda Item will be handled by email.

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 8 tdocs in total for all 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 treatee 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)

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: RP-200840)

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; Closed June 20; WID: RP-192926).

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; Completed: Jun 20; WID: RP-200797)

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; Completed Jun 20; WID: RP-200494).

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; Completed: June 20; WID: RP-200085).

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: RP-190713)

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: RP-191088)

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: RP-200122)

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: RP-200474;)

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: RP-191997;)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: RP-191584)

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Target Aug 20; WI RP-200791)

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: RP-192277).

(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

[R2-2308742](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308742.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308742.zip) Stage2 correction on UE Identities Huawei, Nokia (Rapporteur), HiSilicon CR Rel-16 38.300 16.13.0 0704 - F NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core

[R2-2308743](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308743.zip) Stage2 correction on UE Identities Huawei, Nokia (Rapporteur), HiSilicon CR Rel-17 38.300 17.5.0 0705 - A NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core, NR\_SmallData\_INACTIVE-Core, NR\_UE\_pow\_sav\_enh-Core

* both agreed

### 5.1.2 User Plane corrections

User Plane corrections will be handled in the User Plane break out session (Dianas session)

#### 5.1.2.1 MAC

[R2-2308660](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308660.zip) Clarification on the trigger of MAC events Huawei, HiSilicon CR Rel-15 38.321 15.13.0 1647 - F NR\_newRAT-Core

[R2-2308661](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308661.zip) Clarification on the trigger of MAC events (Rel-16) Huawei, HiSilicon CR Rel-16 38.321 16.12.0 1648 - F NR\_newRAT-Core

R2-2308662 Clarification on the trigger of MAC events (Rel-16) Huawei, HiSilicon CR Rel-17 38.321 17.5.0 1649 - F NR\_newRAT-Core Late

[R2-2308669](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308669.zip) Clarification on the trigger of MAC events (Rel-17) Huawei, HiSilicon CR Rel-17 38.321 17.5.0 1650 - F NR\_newRAT-Core

#### 5.1.2.2 RLC PDCP SDAP BAP

#### 5.1.2.3 Other

User plane related corrections that should be handled in User plane break out session.

### 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.

Rapporteur CRs

Expected treated by email after the meeting

R2-2308248 Miscellaneous non-controversial corrections Set XIX Ericsson CR Rel-15 38.331 15.22.0 4236 - F NR\_newRAT-Core Late

R2-2308249 Miscellaneous non-controversial corrections Set XIX Ericsson CR Rel-16 38.331 16.13.0 4237 - F NR\_newRAT-Core Late

- Ericsson think this is better handled post meeting by email.

* Treated in Post email discussion.

NR Rel-15

Release and Add BWP-UplinkDedicated

[R2-2307331](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307331.zip) Clarification to release and add of BWP-UplinkDedicated Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.22.0 4186 - F NR\_newRAT-Core

[R2-2307332](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307332.zip) Clarification to release and add of BWP-UplinkDedicated Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.13.0 4187 - A NR\_newRAT-Core

[R2-2307333](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307333.zip) Clarification to release and add of BWP-UplinkDedicated Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.5.0 4188 - A NR\_newRAT-Core

- Apple understands the ambiguity, but not sure this is needed.

- Intel also understands, but think that defining releaseadd to be a modification is not good.

- Ericsson hesitant to change anything.

- Nokia still think a change is needed but ok to discuss.

- Huawei think that for initialBWP releaseadd is not possible.

Offline 002, clarify the issue (if any), and converge on a clarification if agreeable.

- nokia report low participation in the offline

- There is an interest to focus on the original case pucch-config multiCSI-PUCCH-resrouces, but not to change anything wider. Nokia suggest to postpone.

* Postponed

CSI-RS resource coord NR-DC

[R2-2307338](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307338.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.13.0 3990 5 F NR\_newRAT-Core, TEI16 R2-2304873

[R2-2307339](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307339.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.5.0 3991 4 A NR\_newRAT-Core, TEI16 R2-2304874

[R2-2307468](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307468.zip) Discussion on CSI-RS resource coordination in NR-DC vivo discussion Rel-15 NR\_newRAT-Core

Moved from 6.1.3.1

Proposal 1: The following capabilities need not to be coordinated:

BandNR capabilities: csi-RS-IM-ReceptionForFeedback, maxNumberSSB-CSI-RS-ResourceOneTx in beamManagementSSB-CSI-RS, maxSimultaneousResourceSetsPerCC, maxConfiguredResourceSetsPerCC in csi-RS-ForTracking.

Proposal 2: MN only need to indicate the maximum number of resources that SCG is allowed to configure for the band combination currently being used by UE.

[R2-2308055](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308055.zip) Discussion on CSI-RS coordination in NR-DC ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

Proposal 1 MN/SN coordination can be supported for per-UE capability maxNumberResAcrossCC-AcrossFR-r16, i.e. the MN can indicate a restriction value to the SN via INM.

Proposal 2 MN/SN coordination can be supported for following UE capabilities, i.e. the MN can indicate separate values for FR1 and FR2 to the SN via INM.

activeConfiguredGrant-r16 -> maxNumberConfigsAllCC-r16

sps-r16 -> maxNumberCSI-RS-Resource-r16

beamManagementSSB-CSI-RS -> maxNumberCSI-RS-Resource

beamManagementSSB-CSI-RS ->maxNumberAperiodicCSI-RS-Resource

csi-RS-ForTracking ->maxConfiguredResourceSetsAllCC

maxNumberCSI-RS-BFD

maxNumberCSI-RS-SSB-CBD

maxNumberSSB-BFD

Proposal 3 MN/SN coordination is not supported for UE capabilities that defined as maximum number of resources configured in one slot or simultaneously (e.g. maxNumberSSB-CSI-RS-ResourceOneTx, maxNumberSSB-CSI-RS-ResourceTwoTx).

Proposal 4 MN/SN coordination is not supported for per-BC UE capabilities that defined as maximum number of resources configured simultaneously. (e.g. simultaneousCSI-ReportsAllCC, simultaneousSRS-AssocCSI-RS-AllCC, csi-RS-IM-ReceptionForFeedbackPerBandComb-r16).

Proposal 5 MN/SN coordination is not supported for UE capabilities that defined as maximum number of resources configured per CC. (e.g. maxSimultaneousResourceSetsPerCC, maxConfiguredResourceSetsPerCC, csi-RS-IM-ReceptionForFeedback).

DISCUSSION

- Nokia think that SN requested update is missing, and is needed. Ericsson think that SN shall be able to indicte what is used. Huawei agrees with Ericsson.

* Offline 003 (Nokia)

[R2-2308056](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308056.zip) Introducing CSI-RS coordination in NR-DC ZTE Corporation, Sanechips CR Rel-16 38.331 16.13.0 4222 - F NR\_newRAT-Core

[R2-2308057](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308057.zip) Introducing CSI-RS coordination in NR-DC ZTE Corporation, Sanechips CR Rel-17 38.331 17.5.0 4223 - A NR\_newRAT-Core

DMRS config for PUSCH

[R2-2308177](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308177.zip) On the Absence of the DMRS Configuration for PUSCH Google Inc. discussion Rel-15

- CATT think the network would always provide this, and not need to specify. Apple agrees with CATT.

- Nokia think that at this time new UE behaviour can be specified, and think the network should provide this.

* The network shall provide the needed information. No need to update the TS.
* Noted

[R2-2308190](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308190.zip) Corrections to ensure the presence of the DMRS configuration Google Inc. CR Rel-15 38.331 15.22.0 4232 - F NR\_newRAT-Core

[R2-2308191](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308191.zip) Corrections to the TimeDomainResourceAllocationList field description Google Inc. CR Rel-15 38.331 15.22.0 4233 - F NR\_newRAT-Core

Measurements

[R2-2307922](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307922.zip) Correction on ReportInterval Samsung CR Rel-15 38.331 15.22.0 4273 - F NR\_newRAT-Core

[R2-2307923](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307923.zip) Correction on ReportInterval Samsung CR Rel-16 38.331 16.13.0 4271 - A NR\_newRAT-Core

[R2-2307924](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307924.zip) Correction on ReportInterval Samsung CR Rel-17 38.331 17.5.0 4268 - A NR\_newRAT-Core

* All 3 : Contents is agreeable, merged with RRC rapporteur CRs

[R2-2308751](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308751.zip) Periodical measurement reporting with reportAmount set to one Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.22.0 4282 - F NR\_newRAT-Core

[R2-2308754](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308754.zip) Periodical measurement reporting with reportAmount set to one Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.13.0 4283 - A NR\_newRAT-Core

[R2-2308757](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308757.zip) Periodical measurement reporting with reportAmount set to one Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.5.0 4284 - A NR\_newRAT-Core

- Ericsson wonder if this small change helps, and whether we need more

- Samsung think this is as LTE and works ok. Vivo agrees.

- Apple think this changes UE behaviour. HW agrees this changes things and should not be allowed.

- LG not sure this changes UE behaviour. Thikn it is a clarification.

- CATT could agree R17 CR but not R15 ad R16.

Chair wonder if this is important enough to attempt a more complex change, allowing both interprétations ..

- Nokia report offline that most companeis were ok to have this from Rel-17. Most don’t want more impact with UE caps etc

- Apple think we can just capture in Chair notes. If a normative change we need UE caps etc, which is not wanted.

- Huawei think there are ways to get the serving cell measurement if the network wants to, this is not needed. ZTE has similar view, and think the original purpose was to get neighbor measurements. QC also think this is not useful, also the CR uses if availabe, which is not clear in iteself.

- Chair: It seems it is not useful to push this further

* Not pursued

Security

[R2-2308430](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308430.zip) Misalignment behavior in changing the security algorithms Ericsson discussion Rel-15 NR\_newRAT-Core

- Intel think that the previous agreement was that the UEs set of algorithms cannot be changed without reconfig with synch, but a DRB can be changed to support either of those without reconfig with synch. QC agrees.

* noted
* Clarification : the UEs set of algorithms cannot be changed without reconfig with synch, but a DRB can be changed to use either of those (the MCG-one or the SCG one) without reconfig with synch (e.g. with release and add).

Mobility

[R2-2308645](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308645.zip) Correction on CHO for R16 Huawei, HiSilicon CR Rel-16 38.331 16.13.0 4263 - F NR\_Mob\_enh-Core

[R2-2308646](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308646.zip) Correction on CHO for R17 Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4264 - A NR\_Mob\_enh-Core

- Ericsson are ok with change 1, 2nd not needed, 3rd one correct an error, and was proposed by Ericsson before (ask co-sign).

- Nokia ok with 1st and 3rd changes, 2nd not really needed (but ok)

- ZTE think 1st and 2nd changes are editorial, and think 3rd change was already agreed to not be done.

* CRs agreeable, revision to add co-signer, revision is agreed unseen.

DCCA

[R2-2308536](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308536.zip) Correction on the conditional presence for primarypath Huawei, HiSilicon CR Rel-16 38.331 16.13.0 4259 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2308537](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308537.zip) Correction on the conditional presence for primarypath Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4260 - A LTE\_NR\_DC\_CA\_enh-Core

- Ericsson think this is clear in stage-2 and this should be enough.

- Huawei are not sure that UEs can accept a non-configuration relying on need M. Ericsson think there is no issue in the UE side. Huawei think the issue is whether a UE can accept.

- ZTE think the need code only applies when parent IE is signalled, so th ecurrent TS is clear. ZTE has concerns with the requirement to signal this after MCG fast link recovery.

CB can allow some checking, to determine whether there is an issue.

- HW indicate that some company proposes this in Stage-2. HW would like to keep it in stage-3.

R2-2309192 Correction on primaryPath for fast MCG link recovery Huawei, HiSilicon CR Rel-16 38.331 16.13.0 4259 1 F LTE\_NR\_DC\_CA\_enh-Core

R2-2309193 Correction on primaryPath for fast MCG link recovery Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4260 1 A LTE\_NR\_DC\_CA\_enh-Core

* Both agreed

[R2-2308678](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308678.zip) Correction on the field description of DormantBWP-Config Samsung CR Rel-16 38.331 16.13.0 4275 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2308680](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308680.zip) Correction on the field description of DormantBWP-Config Samsung CR Rel-17 38.331 17.5.0 4276 - A LTE\_NR\_DC\_CA\_enh-Core

* Both : change is agreeable, merged with Rapporteur CRs.

[R2-2308792](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308792.zip) Clarification on sCellState upon SCell modification Xiaomi CR Rel-16 38.331 16.13.0 4287 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2308793](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308793.zip) Clarification on sCellState upon SCell modification Xiaomi CR Rel-17 38.331 17.5.0 4288 - A LTE\_NR\_DC\_CA\_enh-Core

- vivo think the cover sheet is inconsistent,

- Huawei think the change doesnt change anything as the presence is anyway very clear.

- RRC rapporteur would like that FD doesnt repeat text found elsewhere.

- Chair : some support some opposing comments but change is not critical, so we follow RRC rapporteur.

* Both not pursued

Withdrawn or Revised

R2-2307326 CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core R2-2304871 Withdrawn

R2-2307327 CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.13.0 4185 - F NR\_newRAT-Core, TEI16 R2-2304872 Withdrawn

R2-2307328 CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.5.0 3990 4 A NR\_newRAT-Core, TEI16 R2-2304873 Withdrawn

R2-2307337 CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core R2-2304872 Withdrawn

[R2-2307937](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307937.zip) Correction to RRC on multi-PDSCH Ericsson CR Rel-16 38.331 16.13.0 4219 - F NR\_unlic-Core Withdrawn

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

NR Rel-15

Intra-band EN-DC contiguous UL

[R2-2307049](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307049.zip) Reply LS on intraBandENDC-Support (R4-2310501; contact: Huawei, Xiaomi) RAN4 LS in Rel-16 TEI16 To:RAN2 Cc:RAN

Moved from 5.1.1

* Noted, already taken into account

[R2-2308855](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308855.zip) Relay LS on intraBandENDC-Support RAN2 LS out Rel-16 TEI16 To:RAN4

Moved from 6.1.3.2

* Approved

[R2-2308856](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308856.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Intel Corporation, ZTE Corporation, Sanechips, MediaTek inc. , OPPO CR Rel-15 38.306 15.21.0 0927 1 B NR\_newRAT-Core R2-2306507

Moved from 6.1.3.2

[R2-2308857](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308857.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Intel Corporation, ZTE Corporation, Sanechips, MediaTek inc. , OPPO CR Rel-16 38.306 16.13.0 0928 1 A NR\_newRAT-Core R2-2306508

Moved from 6.1.3.2

[R2-2308858](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308858.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Intel Corporation, ZTE Corporation, Sanechips, MediaTek inc., OPPO CR Rel-17 38.306 17.5.0 0929 1 A NR\_newRAT-Core R2-2306509

Moved from 6.1.3.2

[R2-2308859](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308859.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Intel Corporation, ZTE Corporation, Sanechips, MediaTek inc, OPPO CR Rel-15 38.331 15.22.0 4156 2 B NR\_newRAT-Core R2-2306885

Moved from 6.1.3.2

[R2-2308860](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308860.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Intel Corporation, ZTE Corporation, Sanechips, MediaTek inc, OPPO CR Rel-16 38.331 16.13.0 4157 2 A NR\_newRAT-Core R2-2306886

Moved from 6.1.3.2

[R2-2308861](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308861.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Intel Corporation, ZTE Corporation, Sanechips, MediaTek inc, OPPO CR Rel-17 38.331 17.5.0 4158 3 A NR\_newRAT-Core R2-2306921

Moved from 6.1.3.2

DISCUSSINON

- HW CR contents is not changed, updated WI code for cover sheet.

- Ericsson think we may receive another LS from R4.

Chair: CRs are agreeable, can wait until EOM with formal agreement, to check for R4 progress / LS.

Thursday CB:

- HW report that R4 are discussing, but the R4 discussion is about other issues, potential signalling optimization on top of baseline CRs.

* 6 CRs agreed

Clarification simultaneousRxTxInterBandENDC

[R2-2307880](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307880.zip) Correction on the interpretation of the UE capability field simultaneousRxTxInterBandENDC Apple CR Rel-15 38.306 15.21.0 0940 - F NR\_newRAT-Core

[R2-2307881](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307881.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307881.zip) Correction on the interpretation of the UE capability field simultaneousRxTxInterBandENDC Apple CR Rel-16 38.306 16.13.0 0941 - A NR\_newRAT-Core

[R2-2307882](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307882.zip) Correction on the interpretation of the UE capability field simultaneousRxTxInterBandENDC Apple CR Rel-17 38.306 17.5.0 0942 - A NR\_newRAT-Core

- Nokia agrees with the intention but think the text need more work. QC agrees with Nokia.

- Apple wonder if the change in the cover sheet is acceptable.

- Ericsson agrees we need updates.

- ZTE wonder if thie cap will be used for new BC type.

CB offline 004 (Apple)

R2-2309165 Correction on the interpretation of the UE capability field simultaneousRxTxInterBandENDC Apple CR Rel-15 38.306 15.21.0 0940 1 F NR\_newRAT-Core

R2-2309166 Correction on the interpretation of the UE capability field simultaneousRxTxInterBandENDC Apple CR Rel-16 38.306 16.13.0 0941 1 A NR\_newRAT-Core

R2-2309167 Correction on the interpretation of the UE capability field simultaneousRxTxInterBandENDC Apple CR Rel-17 38.306 17.5.0 0942 1 A NR\_newRAT-Core

* 3 Agreed

InterBandMRDC-WithOverlapDL-Bands-r16

[R2-2307043](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307043.zip) LS on update for “interBandMRDC-WithOverlapDL-Bands-r16” in 38.306 (R4-2310170; contact: Apple) RAN4 LS in Rel-16 TEI16 To:RAN2

* Noted

[R2-2307860](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307860.zip) Update on UE capability interBandMRDC-WithOverlapDL-Bands-r16 Apple, Ericsson, Huawei, HiSilicon, Qualcomm Incorporated discussion Rel-16 TEI16

- Nokia think that the whole issue is ambiguous wrt NE-DC, will likely need to send an LS to R4 to ask about the requirements for NE-DC.

- Samsung think R4 didn’t discuss NE-DC, think the current descr applies but are ok to ask

- Apple think there is nothing to add for NE-DC as requirements in R4 are not complete.

- QC think it is ok to send an LS. Apple is ok but think we should also consider ZTEs issues..

* Noted

[R2-2307545](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307545.zip) Consideration on the interBandMRDC-WithOverlapDL-Bands-r16 ZTE Corporation, Sanechips discussion Rel-16 TEI16

- OPPO think the asynch case is independent of this, maybe no need to ask.

- Apple think 38.133 is quite complex and agree with ZTE, think we can ask

* Noted

[R2-2308512](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308512.zip) Discussion on interBandMRDC-WithOverlapDL-Bands-r16 Nokia, Nokia Shanghai Bell discussion Rel-16 TEI16

* Noted wo presentation
* Send LS to R4, ask about   
  NE-DC requirements (or suitable reference etc),

**FDD-FDD requirements for asynch when UE is not capable of interBandMRDC-WithOverlapDL-Bands-r16 (in case it is different)**

R2-2309212 [Draft] Reply LS on update for “interBandMRDC-WithOverlapDL-Bands-r16” in 38.306 LS out Apple

CB offline 005 reply LS with questions (Apple)

* LS is approved in R2-2309218

[R2-2307861](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307861.zip) Update on UE capability interBandMRDC-WithOverlapDL-Bands-r16 Apple, Ericsson, Huawei, HiSilicon, Qualcomm Incorporated CR Rel-16 38.306 16.13.0 0937 - F TEI16

[R2-2307862](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307862.zip) Update on UE capability interBandMRDC-WithOverlapDL-Bands-r16 Apple, Ericsson, Huawei, HiSilicon, Qualcomm Incorporated CR Rel-17 38.306 17.5.0 0938 - A TEI16

[R2-2307699](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307699.zip) Correction on update for the interBandMRDC-WithOverlapDL-Bands-r16 Samsung CR Rel-16 38.306 16.13.0 0935 - F TEI16

[R2-2307700](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307700.zip) Correction on update for the interBandMRDC-WithOverlapDL-Bands-r16 Samsung CR Rel-17 38.306 17.5.0 0936 - A TEI16

[R2-2308510](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308510.zip) Update to interBandMRDC-WithOverlapDL-Bands-r16 Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.13.0 0945 - F TEI16

[R2-2308511](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308511.zip) Update to interBandMRDC-WithOverlapDL-Bands-r16 Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.5.0 0946 - A TEI16

* CRs are postponed

[R2-2308907](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308907.zip) (Draft) Reply LS on update for “interBandMRDC-WithOverlapDL-Bands-r16” in 38.306 ZTE Corporation, Sanechips LS out Rel-16 TEI16 To:RAN4

Need for gap ENDC

[R2-2308599](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308599.zip) Clarification on UE Gap Capabilities for EN-DC Band Combination Samsung discussion LTE\_NR\_DC\_CA\_enh-Core

- CATT think we shouldn’t discuss P3 now. P2 is reasonable.

- QC think the CR is not completely correct as per-FR gaps can be used for EN-DC, and think thus we don’t need anything for R16 R17. For R18 ok to enhance.

- MTK understands that by default gaps are always needed for ENDC BC except for the case mentioned by QC. Open for enhancements for R18 (but this may be somewhat big for TEI).

- Ericsson think currently things are clear. Think it is best to leave as it is, can discuss for TEI18.

- Nokia wonder if inter-RAT -Need for gaps can be used.

* R2 Clarifies that gaps are indeed needed for ENDC BC for which per-FR-gaps are not applicable. Not much support to clarify or improve for R16 R17 TS.

[R2-2308601](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308601.zip) Clarification on UE Gap Capabilities for EN-DC Band Combination Samsung CR Rel-16 36.331 16.12.0 4947 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2308602](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308602.zip) Clarification on UE Gap Capabilities for EN-DC Band Combination Samsung CR Rel-17 36.331 17.5.0 4948 - A LTE\_NR\_DC\_CA\_enh-Core

#### 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.

IAB

[R2-2307329](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307329.zip) Correction to NS-value utilization Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.12.0 4939 - F NR\_IAB-Core

[R2-2307330](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307330.zip) Correction to NS-value utilization Nokia, Nokia Shanghai Bell CR Rel-17 36.331 17.5.0 4940 - A NR\_IAB-Core

- Chair think the bug is serious, as an if – then statement in a main branch not just for IAB seems to not work.

* CRs are agreeable, can consider cover-sheet updates
* CB Friday 006 (Nokia)

## 5.2 NR V2X

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Aug 20; WID: RP-200129).

CR rapporteurs will take care of miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company first for small changes (e.g. non-controversial clarification/correction, editorial correction, etc.).

[R2-2307050](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307050.zip) LS on frequencyInfo for NR SL RSRP measurements (R5-233768; contact: Huawei) RAN5 LS in Rel-16 5G\_V2X\_NRSL\_eV2XARC-UEConTest To:RAN2

Moved from 5.1.1

[R2-2307096](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307096.zip) Correction on PUCCH resource field description and SSB transmission initiation OPPO CR Rel-16 38.331 16.13.0 4175 - F 5G\_V2X\_NRSL-Core

[R2-2307097](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307097.zip) Correction on PUCCH resource field description and SSB transmission initiation OPPO CR Rel-17 38.331 17.5.0 4176 - A 5G\_V2X\_NRSL-Core

[R2-2307503](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307503.zip) Correction on NR Sidelink MAC Philips International B.V. CR Rel-16 38.321 16.12.0 1637 - F 5G\_V2X\_NRSL-Core

[R2-2307562](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307562.zip) Potential issue caused by using destination index Huawei, HiSilicon, vivo, Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2307563](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307563.zip) Correction on destination index for SL measurement configuration Huawei, HiSilicon, vivo, Ericsson CR Rel-16 38.331 16.13.0 4196 - F 5G\_V2X\_NRSL-Core

[R2-2307564](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307564.zip) Correction on destination index for SL measurement configuration Huawei, HiSilicon, vivo, Ericsson CR Rel-17 38.331 17.5.0 4197 - A 5G\_V2X\_NRSL-Core

[R2-2307565](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307565.zip) Correction on destination index for SL DRX configuration Huawei, HiSilicon, vivo, Ericsson CR Rel-17 38.331 17.5.0 4198 - F NR\_SL\_enh-Core

[R2-2307566](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307566.zip) Draft reply LS on frequencyInfo for NR SL RSRP measurements Huawei, HiSilicon LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN5

[R2-2307567](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307567.zip) Correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-16 38.331 16.13.0 4199 - F 5G\_V2X\_NRSL-Core Revised

[R2-2307568](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307568.zip) Correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4200 - A 5G\_V2X\_NRSL-Core Revised

[R2-2307569](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307569.zip) Miscellaneous corrections on TR 37.985 Huawei, HiSilicon draftCR Rel-16 37.985 16.1.0 F 5G\_V2X\_NRSL-Core

[R2-2307570](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307570.zip) Miscellaneous corrections on TR 37.985 Huawei, HiSilicon draftCR Rel-17 37.985 17.1.1 A 5G\_V2X\_NRSL-Core

[R2-2307753](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307753.zip) Correction on NR Sidelink RRC Philips International B.V. CR Rel-16 38.331 16.13.0 4210 - F 5G\_V2X\_NRSL-Core

[R2-2308105](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308105.zip) Correction on sidelink measurement ZTE Corporation, Sanechips CR Rel-16 38.331 16.13.0 4225 - F 5G\_V2X\_NRSL-Core

[R2-2308106](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308106.zip) Correction on sidelink measurement ZTE Corporation, Sanechips CR Rel-17 38.331 17.5.0 4226 - A NR\_SL\_enh-Core

[R2-2308107](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308107.zip) Discussion on LS from RAN5 ZTE Corporation, Sanechips discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2308431](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308431.zip) Miscellaneous stage 2 corrections for sidelink Ericsson CR Rel-16 38.300 16.13.0 0700 - F 5G\_V2X\_NRSL-Core

[R2-2308432](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308432.zip) Miscellaneous stage 2 corrections for sidelink Ericsson CR Rel-17 38.300 17.5.0 0701 - A 5G\_V2X\_NRSL-Core

[R2-2308561](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308561.zip) Summary on NR V2X RRC corrections Huawei, HiSilicon discussion Rel-16 5G\_V2X\_NRSL-Core Late

[R2-2308709](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308709.zip) Correction on SL transmissions during measurement gap ASUSTeK CR Rel-16 38.321 16.12.0 1651 - F 5G\_V2X\_NRSL-Core

[R2-2308710](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308710.zip) Correction on SL transmissions during measurement gap ASUSTeK CR Rel-17 38.321 17.5.0 1652 - A 5G\_V2X\_NRSL-Core

[R2-2308933](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308933.zip) Correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-16 38.331 16.13.0 4199 1 F 5G\_V2X\_NRSL-Core [R2-2307567](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307567.zip)

[R2-2308934](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308934.zip) Correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4200 1 A 5G\_V2X\_NRSL-Core [R2-2307568](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307568.zip)

## 5.3 NR Positioning Support

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: RP-191971)

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: RP-200218).

(NR TEI16 Positioning)

### 5.3.1 General and Stage 2 corrections

Including incoming LSs if any, Including impact to 36.305 and 38.305. Stage 2 corrections shall be discussed with the specification rapporteur (Sven Fischer sfischer@qti.qualcomm.com) before submission. Stage 2 CRs not discussed with the specification rapporteur will not be treated.

R2-2307357 Correction to 38.305 on E-CID Huawei, HiSilicon CR Rel-16 38.305 16.9.0 0137 - F NR\_pos-Core Withdrawn

R2-2307358 Correction to 38.305 on E-CID Huawei, HiSilicon CR Rel-17 38.305 17.5.0 0138 - A NR\_pos-Core Withdrawn

[R2-2308268](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308268.zip) LS on SSR orbit and clock correction reference for BDS in 3GPP LPP (contact: Ericsson) RTCM SC 104 LS in Rel-16 NR\_pos-Core To:RAN2

[R2-2308476](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308476.zip) GNSS SSR BDS orbit emphemeris reference clarification to align with RTCM Ericsson CR Rel-16 37.355 16.11.0 0460 - F NR\_pos-Core

[R2-2308477](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308477.zip) GNSS SSR BDS orbit emphemeris reference clarification to align with RTCM Ericsson CR Rel-17 37.355 17.5.0 0461 - A NR\_pos-Core

### 5.3.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

### 5.3.3 LPP corrections

[R2-2308474](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308474.zip) Correcting GNSS Ionospheric and Troposperic Delay Correction quality representation Ericsson CR Rel-16 37.355 16.11.0 0458 - F NR\_pos-Core

[R2-2308475](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308475.zip) Correcting GNSS Ionospheric and Troposperic Delay Correction quality representation Ericsson CR Rel-17 37.355 17.5.0 0459 - A NR\_pos-Core

[R2-2308688](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308688.zip) Addition of missing field description for nr-DL-PRS-ResourceID/nr-DL-PRS-ResourceSetID Samsung CR Rel-16 37.355 16.11.0 0462 - F NR\_pos-Core

[R2-2308689](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308689.zip) Addition of missing field description for nr-DL-PRS-ResourceID/nr-DL-PRS-ResourceSetID Samsung CR Rel-17 37.355 17.5.0 0463 - A NR\_pos-Core

### 5.3.4 MAC corrections

## 5.4 SON MDT support for NR

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; Completed June 20; WID: RP-191776).

### 5.4.1 General and stage-2 corrections

Including incoming LSs, TS 37.320 corrections

### 5.4.2 TS 38.314 corrections

### 5.4.3 RRC corrections

[R2-2307783](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307783.zip) Add offsetToCarrier parameter in RA Report CATT, CMCC CR Rel-16 38.331 16.13.0 4213 - F NR\_SON\_MDT-Core

[R2-2307784](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307784.zip) Add offsetToCarrier parameter in RA Report CATT, CMCC CR Rel-17 38.331 17.5.0 4214 - A NR\_SON\_MDT-Core

[R2-2308417](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308417.zip) Clarification to the setting of locationInfo in MeasResultSCG-Failure Ericsson CR Rel-16 38.331 16.13.0 4245 - F NR\_SON\_MDT-Core

[R2-2308418](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308418.zip) Clarification to the setting of locationInfo in MeasResultSCG-Failure Ericsson CR Rel-17 38.331 17.5.0 4246 - A NR\_SON\_MDT-Core

[R2-2308419](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308419.zip) PLMN check for the reconnectCellID in the RLF report Ericsson CR Rel-16 38.331 16.13.0 4247 - F NR\_SON\_MDT-Core

[R2-2308420](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308420.zip) PLMN check for the reconnectCellID in the RLF report Ericsson CR Rel-17 38.331 17.5.0 4248 - A NR\_SON\_MDT-Core

[R2-2308556](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308556.zip) Correction on UE behavior for RLF report upon detection of T312 expiry Qualcomm Incorporated CR Rel-16 38.331 16.13.0 4262 - F NR\_SON\_MDT-Core

[R2-2308642](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308642.zip) Discussion on location configuration for WLAN, BT and sensor for SON and MDT features Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2308671](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308671.zip) Correction on storage of RLF information upon T312 expiry in PCell\_Opt 1 Samsung CR Rel-16 38.331 16.13.0 4269 - F NR\_SON\_MDT-Core

[R2-2308674](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308674.zip) Correction on storage of RLF information upon T312 expiry in PCell\_Opt 2 Samsung CR Rel-16 38.331 16.13.0 4270 - F NR\_SON\_MDT-Core

# 6 NR Rel-17

## 6.1 Common

(NR\_MG\_enh-Core; leading WG: RAN4; REL-17; WID: RP-211591)

(NR\_UDC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-211203)

(NG\_RAN\_PRN\_enh-Core; leading WG: RAN3; REL-17; WID: RP-202363)

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: RP-211548)

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: RP-212632)

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: RP-201040)

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: RP-212610)

(NR\_Slice -Core; leading WG: RAN2; REL-17; WID: RP-212534)

(NR\_QoE-Core; leading WG: RAN3; REL-17; WID: RP-211406)

(NR\_ext\_to\_71GHz-Core; leading WG: RAN1; REL-17; WID: RP-212637)

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: RP-211566): non-RACH-indication parts

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: RP-211574)

(NR\_feMIMO-Core; leading WG: RAN1; REL-17; WID: RP-212535)

(NR\_SmallData\_INACTIVE-Core, leading WG: RAN2; REL-17; WID: RP-212594)

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-210854)

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: RP-201038)

PRACH partitioning items

NR TEI17: Corrections are accepted. New TEI17 tech proposal requirements: a) authored by an operator (and preferably co-signed by more), AND: b) resolves a concrete problem in the market for this operator (no new vendor initiated enhancements).

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.

Tdoc Limitation: 10 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)

No Action

[R2-2307026](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307026.zip) Reply LS on Mapping of F1-C IP addresses in the IAB inter-CU topology adaptation and backhaul RLF recovery procedures (R3-232166; contact: ZTE) RAN3 LS in Rel-17 TEI17 To:SA3 Cc:RAN2

Chair: Proposed Noted without presentation

* noted

RedCap

[R2-2308923](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308923.zip) RedCap specific SDT configuration Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.5.0 0708 - F NR\_redcap-Core

- Ericsson are ok, except for the “may” in the third paragraph.

- HW want to remove the last sentence. Ericsson ok to keep. ZTE think is correct. LG think indeed it is current, not sure whether it is stage-3 or stage-2 ..

- ZTE think that the (s) in NCD-SSB(s) shall be removed.

* Revised in R2-2309190, remove the “(s)”, remove the last sentence, and whith these changes the CR is agreed unseen.

SDT

[R2-2307513](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307513.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307513.zip) Correction for SDT Xiaomi CR Rel-17 38.300 17.5.0 0691 - F NR\_SmallData\_INACTIVE-Core

[R2-2308958](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308958.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308958.zip) Correction for SDT Xiaomi CR Rel-17 38.300 17.5.0 0691 1 F NR\_SmallData\_INACTIVE-Core

[R2-2309195](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2309195.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2309195.zip) Correction for SDT Xiaomi CR Rel-17 38.300 17.5.0 0691 2 F NR\_SmallData\_INACTIVE-Core

R2-2309216 Correction for SDT Xiaomi CR Rel-17 38.300 17.5.0 0691 3 F NR\_SmallData\_INACTIVE-Core

* Agreed

[R2-2308919](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308919.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308919.zip) Correction on SDT Triggering vivo, Nokia CR Rel-17 38.300 17.5.0 0707 - F NR\_SmallData\_INACTIVE-Core

* Agreed

QoE

[R2-2307617](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307617.zip) Miscellaneous stage 2 corrections on NR QoE Lenovo CR Rel-17 38.300 17.5.0 0693 - F NR\_QoE-Core

- China Unicom think this CR is not needed, and it is wrong to capture things from stage-3 Notes.

- Ericsson agrees with China Unicom, the editorials are ok.

- Chair: Support to make identifier alignment, and to change CN to 5GC (editorials) No support for the rest.

* Editorials Acc to comments are merged with TS rapporteur CR, rest is not agreed

ePowSav

[R2-2307028](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307028.zip) Reply LS on the use of PEI during an Emergency PDU Session (R3-233313; contact: Nokia) RAN3 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2 Cc:CT1, SA2

[R2-2307061](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307061.zip) Reply LS on the use of PEI during an emergency PDU session (S2-2307974; contact: Ericsson)) SA2 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core, TEI17 To:RAN2, RAN3, CT1

DISCUSSION

- Huawei would like the behaviour for emergency call to be consistent. UE-ID based should be disabled for emergency call.

* Both noted

MBS

[R2-2308799](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308799.zip) Clarifications for MBS service continuity Samsung CR Rel-17 38.300 17.5.0 0706 - F NR\_MBS-Core

- HW: 1st change ok. 2nd change need to be modified.

- CATT think 2nd change is not needed.

- Ericsson think this is not needed, QC agrees.

- Chair: maybe 38.300 TS rapporteur can do the 1st change in the next editorial update round.

* Not pursued.

MGE

[R2-2308058](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308058.zip) Correction on gap requirement for inter-RAT LTE measurement ZTE Corporation, Sanechips CR Rel-17 38.300 17.5.0 0697 - F NR\_MG\_enh-Core

=> Revised in [R2-2308942](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308942.zip)

[R2-2308942](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308942.zip) Correction on gap requirement for inter-RAT LTE measurement ZTE Corporation, Sanechips, Nokia (Rapporteur) CR Rel-17 38.300 17.5.0 0697 1 F NR\_MG\_enh-Core

* agreed

### 6.1.2 User Plane corrections

User Plane Related aspects will be handled in the User Plane break out session. (exception: TEI new proposals if any).

[R2-2307958](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307958.zip) Correction on the use of the term ID in IAB MAC CEs Samsung, Nokia, Nokia Shanghai Bell, Ericsson CR Rel-17 38.321 17.5.0 1643 - F NR\_IAB\_enh-Core

[R2-2307983](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307983.zip) Clarification on use of SRI in IAB MAC CEs Samsung CR Rel-17 38.321 17.5.0 1644 - F NR\_IAB\_enh-Core

[R2-2308433](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308433.zip) Correction on number of restricted beams for eIAB Ericsson, Samsung, Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.5.0 1625 1 F NR\_IAB\_enh-Core R2-2306005

[R2-2308499](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308499.zip) Correction to PDCCH monitoring Google Inc. CR Rel-17 38.321 17.5.0 1646 - F NR\_SmallData\_INACTIVE-Core

[R2-2308711](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308711.zip) DRX Command MAC CE for MBS ASUSTeK CR Rel-17 38.321 17.5.0 1653 - F NR\_MBS-Core

[R2-2308906](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308906.zip) Correction on TCI-state for RedCap UE ZTE Corporation, Sanechips CR Rel-17 38.321 17.5.0 1655 - F NR\_redcap-Core

[R2-2308922](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308922.zip) Correction on SDT Triggering Conditions vivo CR Rel-17 38.321 17.5.0 1656 - F NR\_SmallData\_INACTIVE-Core

[R2-2308924](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308924.zip) Correction on HARQ buffer flush at SCG deactivation Nokia, Apple, Mediatek, Qualcomm, Nokia Shanghai Bell CR Rel-17 38.321 17.5.0 1657 - F LTE\_NR\_DC\_enh2-Core

[R2-2308925](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308925.zip) Correction on BFI\_COUNTER at SCG activation Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.5.0 1658 - F LTE\_NR\_DC\_enh2-Core

### 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.

General

Rapporteur CR

[R2-2308250](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308250.zip) Miscellaneous non-controversial corrections Set XIX Ericsson CR Rel-17 38.331 17.5.0 4238 - F NR\_newRAT-Core

- Ericsson think this is editorial.

* By Email post meeting

TEI – endorsed last meeting – LS check R1 – Wait for reply

[R2-2307205](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307205.zip) Correction on Type1 HARQ-ACK codebook generation Qualcomm Incorporated CR Rel-17 38.331 17.5.0 4179 - F TEI17

[R2-2307206](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307206.zip) Correction on Type1 HARQ-ACK codebook generation Qualcomm Incorporated CR Rel-17 38.306 17.5.0 0933 - F TEI17

TEI - correction

[R2-2308108](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308108.zip) Redirection with MPS correction for resume cause Peraton Labs, CISA ECD, AT&T, T-Mobile USA, Verizon CR Rel-17 38.331 17.5.0 4227 - F NR\_newRAT-Core, TEI17

[R2-2308111](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308111.zip) Redirection with MPS correction for resume cause Peraton Labs, CISA ECD, AT&T, T-Mobile USA, Verizon CR Rel-17 36.331 17.5.0 4941 - F NR\_newRAT-Core, TEI17

- CATT think the formatting in the ASN.1 part is wrong.

- Lenovo think this should be for rel-16 as well

- Chair think we don’t need WI code NR\_newRAT-Core, and if from rel-16 then WI code should be TEi16,

* Contents is agreeable, formatting to be checked, have Rel-16 CR as well, Fix WI code.

CB for final agreement

R2-2309161 Redirection with MPS correction for resume cause Peraton Labs, CISA ECD, AT&T, T-Mobile USA, Verizon CR Rel-16 38.331 16.13.0 4227 1 F TEI16

R2-2309162 Redirection with MPS correction for resume cause Peraton Labs, CISA ECD, AT&T, T-Mobile USA, Verizon CR Rel-16 36.331 16.12.0 4941 1 F TEI16

R2-2309163 Redirection with MPS correction for resume cause Peraton Labs, CISA ECD, AT&T, T-Mobile USA, Verizon CR Rel-17 38.331 17.5.0 4295 - A TEI16

R2-2309164 Redirection with MPS correction for resume cause Peraton Labs, CISA ECD, AT&T, T-Mobile USA, Verizon CR Rel-17 36.331 17.5.0 4954 - A TEI16

- Huawei point out that impact analysis is missing on the cover sheets, wondering if the procedure assumptions are correct.

- CB: Huawei has checked the procedure assumptions which seem correct so the only change needed is the impact analysis with the compatibility statements.

* 4 CRs revised, add impact analysis to cover sheet, agreed unseen

RACH

[R2-2308366](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308366.zip) Correction on description of FeaturePriorities in TS 38.331 CATT CR Rel-17 38.331 17.5.0 4244 - F NR\_cov\_enh-Core, NR\_slice-Core, NR\_SmallData\_INACTIVE-Core, NR\_redcap-Core

- MTK : all is clear in MAC TS so this CR is not needed.

* Not pursued

[R2-2308712](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308712.zip) Correction on 2-step RACH configuration for feature combination ASUSTeK CR Rel-17 38.331 17.5.0 4279 - F TEI17

- CB check if there is an issue to be resolved or not.

- Asus indicate that theu discussed offline with commetning companies and thikn the CR is agreeable

* agreed

Redcap

[R2-2307033](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307033.zip) LS on applicability of pre-configured measurement gaps for RedCap UE (R3-233478; contact: Qualcomm) RAN3 LS in Rel-17 NR\_redcap-Core To:RAN2 Cc:RAN4

* noted

[R2-2307646](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307646.zip) Draft Reply LS on applicability of pre-configured measurement gaps for RedCap UE Qualcomm Incorporated LS out Rel-17 NR\_redcap-Core To:RAN3 Cc:RAN4

- ZTE think we don’t need to mention R18 parts. QC think this is a bitmap but only one can be used which may be confusing. Apple also prefer removing this part.

* Remove: “Nevertheless, the design of ***preConfGapStatus*** per BWP includes multiple bits, thus allowing signaling support for activating/deactivating multiple pre-configured gaps per BWP. That helps ensure forward compatibility with future requirements.”
* With this change the LS is approved in R2-2309191

[R2-2308059](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308059.zip) Discussion on pre-configured gap for RedCap UE ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

* Noted

[R2-2307377](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307377.zip) Discussion on the uniqueness of search space IDs among initial BWPs Qualcomm Incorporated discussion Rel-17 NR\_redcap-Core

*Observation 1. RAN2 spec requires that controlResourceSetId and searchSpaceID are unique among BWPs of a serving cell, in all RRC states.*

*Observation 2. Use of same search space ID between initialDownlinkBWP and initialDownlinkBWP-RedCap-r17 can confuse a RedCap UE about which CORESET to monitor. That creates unnecessary implementation complexity for RedCap UEs.*

*Proposal 1.* *RAN2 confirm that IDs of CORESETs and search spaces are unique between initial BWP and RedCap-specific initial BWP.*

[R2-2308113](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308113.zip) Clarification on the searchSpaceId field description Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4229 - F NR\_redcap-Core

DISCUSSION on the two above

- Nokia wonder when a UE has both redcap specific initial BWP and normal initial BWP. QC think redcap UE may need to monitor coreset 0 of non-redcap specific initial BWP in some cases.

- MTK think indeed we need to guarantee uniqueness also for redcap UEs, so there is an issue. Apple and vivo agrees.

- ZTE agree with QC technically, but think this is a drawback for the multiple-search-space case. Thikn coreset 0 can be considered a special coreset.

- Ericsson think that searchspace ID need to be unique, maybe not coreset ID.

- Huawei think that QC proposal consumes search space IDs, thikn MTK proposal to consider search space IDs for the UE is better.

- ZTE think that if we go the QC way, it should not apply to multiple coresets (different discussion).

- Chair wonders where the uniqueness requirement comes from, e.g. what will fail in RAN1 TS is uniqueness is not fullfilled.

CB offline 019 (QC) further discussion to determine possible ways forward. Wed morning coffe break outside main room.

R2-2309223

- HW think this restriction is not needed but is in impl and can compromise.

* RAN2 confirm that IDs of search spaces and coresets (other than coreset #0) are unique across all BWPs, including RedCap-specific initial BWP.

[R2-2308112](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308112.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308112.zip) Corrections on the search space for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4228 - F NR\_redcap-Core

Chair: All the changes seems non agreeable at current point in time. Can CB later to allow proponent to convince opponents.

- Xiaomi think the first change is redundant, as this info is in the presence condition.

- MTK think MBS specific statements should not be included. ZTE agrees.

- vivo think the second part of the first change is needed.

* revised

R2-2309203 Corrections on the search space for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4228 1 F NR\_redcap-Core

- Huawei don’t propose to agree this now, want to allow more checking, proposes short email discussion

- Ericsson and ZTE think we need to think more, not urgent/

* Postpone

[R2-2307378](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307378.zip) Discussion on the autonomous BWP switching beyond UE's configured channel bandwidth Qualcomm Incorporated discussion Rel-17 NR\_redcap-Core

DISCUSSION

- Nokia think 1a is not reasonable due to system efficiency. HW agrees with Nokia. HW think if we do this we need to have RACH resource for every BWP. Ericsson agrees. ZTE agrees as well, but think UE behaviour could be clarified

* 1a not agreeable

R2-2309215

CB offline 020 on 1b (QC), Wed morning coffe break outside main room. (can continue in the afternoon if needed), report in R2-2309215

- QC report that for P2, time is needed to check, as UEs in the field may not behave like this, thus there may be compatibilty issues for legacy UEs.

- QC think there is no impact on R2 TS, but if needed it can be discussed next meeting.

- Apple think that P2 is not needed, as this discussion was indeed for redcap. No need. Vivo think we can postpone this discussion. MTK agrees with Apple.

* P1 If a RedCap UE needs to autonomously switch to its initial BWP to perform RACH (as in Iegacy) but its current UE channel BW does not cover the initial BWP, the UE autonomously changes its UE channel BW to cover the initial BWP.

[R2-2308114](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308114.zip) Corrections on relaxedMeasurement and initialUplinkBWP-RedCap Huawei, China Southern Power Grid, HiSilicon CR Rel-17 38.331 17.5.0 4230 - F NR\_redcap-Core

- vivo think 1st change is clear from UE cap and no need. 2nd not sure but can accept

- Intel support Need S. ZTE think the UE need to remove the configuration if absent.

- QC think we need to have consistent specification for redcap and non-redcap UEs.

- ZTE think that the field shall only be used when NUL is selected. Vivo think this is clear in MAC

* Postponed

[R2-2308115](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308115.zip) Correction on the HD-FDD indication and per band capability for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4231 - F NR\_redcap-Core

- Ericsson think current TS is intentional

- ZTE think there is no room for misunderstanding

* Not pursued

[R2-2308803](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308803.zip) Clarification on condition for a UE to apply ran-PagingCycle, when eDRX-AllowedInactive is absent Ericsson CR Rel-17 38.331 17.5.0 4289 - F NR\_redcap-Core

- ZTE think the CR is correct. Think the UE need to check the cell where he camps (should be clarifed)

- OPPO think the intention is correct but this is already captured in 38304. Vivo has similar view and think the proposed text is not completely aligned with 304.

* Not pursued

IIOT URLLC

[R2-2307440](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307440.zip) Discussion on Configuration of Enhanced Type 3 HARQ-ACK Codebook for PUCCH group vivo discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

- LG think R1 LS is based on wrong info, we hav e changed. A change in field description should be enough.

- Ericsson agrees

* Modification of the field description as in the annex is agreeable

[R2-2307439](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307439.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307439.zip) Correction on Configuration of Enhanced Type 3 HARQ-ACK Codebook for PUCCH group vivo CR Rel-17 38.331 17.5.0 4189 - F NR\_IIOT\_URLLC\_enh-Core

R2-2309213 Correction on Configuration of Enhanced Type 3 HARQ-ACK Codebook for PUCCH group vivo CR Rel-17 38.331 17.5.0 4189 1 F NR\_IIOT\_URLLC\_enh-Core

* Agreed

[R2-2307438](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307438.zip) Change Request on UE Capability of Enhanced Type 3 HARQ-ACK Codebook supporting 32 HARQ processes for PUCCH group vivo CR Rel-17 38.306 17.5.0 0934 - F NR\_IIOT\_URLLC\_enh-Core

- not needed, not treated

[R2-2307933](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307933.zip) Discussion on PUCCH Repetition for PUCCH Format 2 vivo discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

* Noted, proposals agreed

[R2-2307467](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307467.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307467.zip) Correction on PUCCH Repetition for PUCCH Format 2 vivo CR Rel-17 38.331 17.5.0 4190 - F NR\_IIOT\_URLLC\_enh-Core

- vivo proposes to wait until another R1 LS is available, Cb later this meeting

- Ericsson agrees with this CR.

R2-2309220 Correction on PUCCH Repetition for PUCCH Format 2 vivo, Nokia CR Rel-17 38.331 17.5.0 4190 1 F NR\_IIOT\_URLLC\_enh-Core

- Vivo reports that after approved R1 LS, the impact is just editorial update of one FD.

* agreed

feMIMO

[R2-2307006](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307006.zip) Reply LS to RAN2 on unified TCI-state and fast SCell activation (R1-2306197; contact: ZTE) RAN1 LS in Rel-17 NR\_FeMIMO-Core, LTE\_NR\_DC\_enh2 To:RAN2 Cc:RAN4

* Noted

[R2-2307674](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307674.zip) Corrections on the unified TCI-state configuration for 38.331 Xiaomi, ZTE Corporation CR Rel-17 38.331 17.5.0 4202 - F NR\_FeMIMO-Core, LTE\_NR\_DC\_enh2

- HW think this is a new UE requirement, think maybe a UE cap is needed .. some discussion, most thikn it can work

* Agreed

[R2-2307702](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307702.zip) Correction of the RS configuration for group based beam reporting Samsung CR Rel-17 38.331 17.5.0 4205 - F NR\_FeMIMO-Core

- Not needed, not treated

[R2-2308931](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308931.zip) Correction for group based beam reporting configuration Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4294 - F NR\_FeMIMO-Core

* Agreed

[R2-2307701](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307701.zip) Clarification on the condition of subband reporting Samsung CR Rel-17 38.331 17.5.0 4204 - F NR\_FeMIMO-Core

- Ericsson think we should remove all description and refer only to R1 TS

- Chair think this is a NBC change that impacts Rel-15.

* Postponed

[R2-2308062](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308062.zip) Clarification on the BFD Resource for mTRP ZTE Corporation, Sanechips CR Rel-17 38.331 17.5.0 4224 - F NR\_FeMIMO-Core

* Not pursued

[R2-2307703](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307703.zip) RRC restriction on muti-TRP schemes Samsung CR Rel-17 38.331 17.5.0 4206 - F NR\_FeMIMO-Core

- Huawei think the wording need to be changed to avoid misinterpreation of which serving cell this applies to. Nokia agrees, think that the intent is correct.

* Agreeable, but wording can be improved. Revision in R2-2309197

R2-2309197 RRC restriction on muti-TRP schemes Samsung CR Rel-17 38.331 17.5.0 4206 1 F NR\_FeMIMO-Core

* Agreed

[R2-2308713](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308713.zip) Correction on pair of CSI ASUSTeK CR Rel-17 38.331 17.5.0 4280 - F NR\_FeMIMO-Core

- Ericsson think that the xxGroup1 should remain. Asustek think this is clear from other text, no need to duplicate. Nokia think the intent is correct, think the whole CR is editorial.

* The removal of xxGroup2 and the update to the reference is agreeable, they are merged with the Rapporteur CR.

71GHz

[R2-2307912](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307912.zip) Correction to RRC for 71 GHz on multi-PUSCH Ericsson, LG Electronics Inc., ASUSTeK, Nokia, Nokia Shanghai Bell, Samsung, Xiaomi, Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4016 3 F NR\_ext\_to\_71GHz-Core R2-2305047

[R2-2307916](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307916.zip) Further correction to RRC for 71 GHz on multi-PUSCH Ericsson, Xiaomi, ASUSTeK, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung, LG Electronics Inc CR Rel-17 38.331 17.5.0 4088 1 F NR\_ext\_to\_71GHz-Core R2-2305114

* 2 CRs postponed, wait for R1

[R2-2307935](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307935.zip) Further discussion on k2 for multi-PUSCH Ericsson discussion Rel-17 NR\_ext\_to\_71GHz-Core

* Topic postponed, wait for R1

[R2-2307936](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307936.zip) Removal of out of dated editor’s notes for 71 GHz Ericsson, Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4218 - F NR\_ext\_to\_71GHz-Core

- LG think this is editorial

- Nokia think Editors notes shall be removed at ASN.1 freeze.

* Merged with Rapporteur CR, Rapporteur to figure out which notes to be removed.

[R2-2307938](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307938.zip) Correction to RRC for 71 GHz on multi-PDSCH Ericsson CR Rel-17 38.331 17.5.0 4220 - F NR\_unlic-Core, NR\_ext\_to\_71GHz-Core

Moved from 5.1.3.1

- Cover sheet need to be updated to Cat F, remove NR-U WI code.

- Nokia think the last added sentence need to be before the UE presence condition

* With these changes the CR R2-2309198 is agreed unseen.

Cov Enh

[R2-2308063](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308063.zip) Clarification on CE-only BWP ZTE Corporation, Sanechips discussion Rel-17 NR\_cov\_enh-Core

- MTK wonder if 1.2 invovles TS change. ZTE think maybe, as this is largely unclear.

* Use featureCombinationPreamblesList-r17 in additionalRACH-ConfigList-r17 to configure CE-only BWP, and the legacy RACHConfigCommon is absent in such case.
* Current spec doesn’t support CFRA for CE-only BWP

MBS

LS on packet loss

[R2-2307062](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307062.zip) Reply to LS on addressing packet loss during multicast MBS delivery (S2-2307982; contact: Ericsson) SA2 LS in Rel-17 5MBS, MCOver5MBS To:SA6, RAN2 Cc:RAN3

* Noted

[R2-2307633](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307633.zip) Discussion on and draft reply to SA2 LS on addressing packet loss during multicast MBS delivery Qualcomm Incorporated discussion Rel-17 NR\_MBS-Core

* noted

[R2-2307764](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307764.zip) SA2 LS discussion on packet loss Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

- Nokia want to explain to SA2 also that for Rel18 we add the possiilty to receive multicast in INACTVE. AT&T agrees.

- ZTE think that the case for this Rel-18 case different, purpose is mainly for congestion. QC think indeed we need to be clear that it is about Rel18.

* noted

[R2-2308347](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308347.zip) Discussion about SA2 LS on packet loss during multicast MBS delivery (with draft LS) ZTE, Sanechips discussion Rel-17 NR\_MBS-Core

- Ericsson think we should avoid mentining the 200ms

- CATT think we could just say that QoS taking into account is for network implémentation similar to ZTE proposal

* noted
* Answer 2: When eDRX is configured for the UE, typical delay for transition from RRC\_INACTIVE to RRC\_CONNECTED can be several seconds.Assuming lowest paging cycle of 320ms and no eDRX, even with assumption of two full cycles for successful paging (i.e. all UEs having just missed the DRX cycle and every UE missing the first page), the total delay from paging in RRC\_INACTIVE to the transition to RRC\_CONNECTED can be expected to be below 1s (i.e. <1000ms).

R2-2309243

Offline 113 (QC), LS reply. take comments into account, can massage the text of answer 1 offline

* Subheading next meetings is wrong, need update, with this update the LS out is approved in R2-2309245

Miscellaneous corrections

[R2-2307266](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307266.zip) Corrections to TS 38.331 on MBS Broadcast CATT, CBN CR Rel-17 38.331 17.5.0 4181 - F NR\_MBS-Core

=> Revised in [R2-2308951](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308951.zip)

[R2-2308951](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308951.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308951.zip) Corrections to TS 38.331 on MBS Broadcast CATT, CBN CR Rel-17 38.331 17.5.0 4181 1 F NR\_MBS-Core

- Huawei agrees with most changes. Change in 5.9.2.3 is not needed. LGE agrees this is not needed.

- QC wonder if this CR is needed

R2-2309221 Corrections to TS 38.331 on MBS Broadcast CATT, CBN CR Rel-17 38.331 17.5.0 4181 2 F NR\_MBS-Core

- QC proposes to have a single MBS CR as ther are so many small corrections

- QC think cover page need update e.g reiviosn is missing. Tdcoc number

- QC has some editrorial comments.

* Contents is agreeable, with editorial update, merge with HW CR4192

Offline review 030 (CATT)

[R2-2307267](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307267.zip) Correction to TS 38.331 on MBS Multicast CATT, CBN CR Rel-17 38.331 17.5.0 4182 - F NR\_MBS-Core

- QC and Ericsson think this is not needed

* Not pursued

[R2-2307490](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307490.zip) Miscellaneous RRC corrections for MBS Huawei, CBN, HiSilicon CR Rel-17 38.331 17.5.0 4192 - F NR\_MBS-Core

For the applicability condition, Ericsson think it is better to not make this change at all.

R2-2309235 Miscellaneous RRC corrections for MBS Huawei, CBN, HiSilicon CR Rel-17 38.331 17.5.0 4192 1 F NR\_MBS-Core

Discuss in 030.

- Huawei report that one change was removed. Rest kept.

- QC wonder if companies really has reviewed, e.g. the condition on the npn- and plmn-lists seems wrong, the very last part is it really needed. Huawei think that the last reference is updated to be consistent with descriptino for nonMBS location and Bandwidth. Otherwise agreeable.

* All the MBS RRC corrections to be merged into this CR.
* Revised
* CB

R2-2309244 Miscellaneous RRC corrections for MBS Huawei, CBN, HiSilicon CR Rel-17 38.331 17.5.0 4192 1 F NR\_MBS-Core

[R2-2307491](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307491.zip) Discussion on the remaining RRC issues for MBS Huawei, CBN, HiSilicon discussion Rel-17 NR\_MBS-Core

- CATT think the first change is ok, but need rewording

- CATT think the second change is not essential. QC agrees.

- QC wonder if this case may happen. HW replies yes.

- LG think first change may be needed if NPN Scell is allowed.

* Second change is not pursued/not agreed
* First change may be agreeable with some word smithing. Merged with CR4192

[R2-2307632](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307632.zip) Correction to repetitionNumber-r16 in PDSCH-TimeDomainResourceAllocation-r16 Qualcomm Incorporated CR Rel-17 38.331 17.5.0 4201 - F NR\_MBS-Core

* Contents is agreeable, merged with CR4192

[R2-2307925](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307925.zip) Correction on PDCP-Config Samsung CR Rel-17 38.331 17.5.0 4267 - F NR\_MBS-Core

- Ericsson think we should roll-back to R15 « radio bearer ». QC think DRB is ok.

- QC think a correction is needed

- LG think nwe need to change for Setup, Setup1 and Setup2 as they are only for DRB

* Agreeable with comments, merged with CR4192

[R2-2308763](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308763.zip) Correction on dedicated system information delivery for MBS MediaTek Inc. CR Rel-17 38.331 17.5.0 4285 - F NR\_MBS-Core

- CATT eplain tht this was already agreed, but missed later somehow.

* Agreeable, merge w CR4192

CFR

[R2-2307677](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307677.zip) Clarification on the broadcast CFR configuration Xiaomi CR Rel-17 38.331 17.5.0 4203 - F NR\_MBS-Core

- ZTE think this is not needed. Nokia also think this is not essential.

- No support

* Not pursued

[R2-2308192](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308192.zip) Corrections on RedCap CFR for MBS broadcast Xiaomi,Huawei, HiSilicon, Ericsson draftCR Rel-17 38.331 17.5.0 NR\_MBS-Core, NR\_redcap-Coref

- ZTE think we don’t fully describe this for Rel-17. If we would attempt to do so we need more changes, which were already rejected. HW think the ZTE issue is different.

- CATT think this is correct for Rel-17. QC agrees it is correct, but think it is incomplete.

- Chair: companies in general think it is correct, but if to capture then a number of companies also require to capture other parts (which were non-agreed to be captured).

- Chair: Rel 17 Redcap UE may receive Bcast MBS under certain circumstances, but we make no effort to describe those for rel-17.

* Not pursued

QoE

[R2-2307921](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307921.zip) Correction on buffer levels and storing QoE reports Samsung CR Rel-17 38.331 17.5.0 4274 - F NR\_QoE-Core

- Lenovo think this is a late change, think this is maybe not so important.

- Samsung think we have this for handover. Nokia thikn it means that the data is stored at different buffer.

- Nokia think it is not needed. HW think indeed this is an optimization not needed in R17.

- Intel has some sympathy, think noone has impl QoS so we might as well change now.

* Not Pursued

Slicing

[R2-2308365](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308365.zip) Correction on description of cell reselection priority in TS 38.331 CATT CR Rel-17 38.331 17.5.0 4243 - F NR\_slice-Core

- Ericsson think that the usecase information is not needed.

- Nokia think it is technically correct.

* Not pursued

ePowSav

[R2-2307515](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307515.zip) Correction on RLM/BFD relaxation state reporting Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.5.0 4193 - F NR\_UE\_pow\_sav\_enh-Core

- Ericsson think we should wait for R4 as they have some tdocs for this. HW think they will treat this tomorrow.

CB wait until R4 has treated this.

- Nokia think there was nothing agreed in R4 suggest to agreee this CR in R2.

- HW thikn this is related to R4 issue, and think R2 should just wait.

- CATT think all agreements were blocked in R4 and progress in R4 is not possible. Think this CR is ok.

- QC think that at least thie is clear from R2 point, we could agree this without referring to R4 TS. Nokia would be ok to remove the reference.

- vivo prefer to keep the reference.

- Ericsson thikn this is still being discussed in R4.

- QC think it is obvious that this is about configured DRX, and DRX state change is not applicable otherwise

- NEC are ok with the CR, but think there is a dependency of R4 desicion.

* Postponed

[R2-2308647](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308647.zip) Miscellaneous corrections for power saving features Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4265 - F NR\_UE\_pow\_sav\_enh-Core

- Ericsson think the need S related correction is needed. ZTE agree with Ericsson.

* agreed

MGE

[R2-2308691](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308691.zip) Correction on procedure text for gapToAddModList configuration. Samsung CR Rel-17 38.331 17.5.0 4278 - F NR\_MG\_enh-Core

Moved here from 5.1.3.1

- QC think this is not needed, and the current TS works as intended

- vivo wonder if this is NBC.

- ZTE think this was done on purpose and prefer not to change. Huawei agrees, and the previous way was abandoned.

- Samsung think anyway that this is BC.

- Chair : no support for the moment. If Samsung or other really see a problem, can come back at a later time

* Not pursued

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

General

[R2-2308854](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308854.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308854.zip) Miscellaneous corrections on UE capabilities Huawei, HiSilicon CR Rel-17 38.306 17.5.0 0949 - F TEI17

- Ericsson are ok with the changes think that for the 3rd change we should be careful to not impact legacy base station (rewording can be considered).

- Nokia think for the 3rd change, think the wording is inconsistent in one place. Huawei agrees, this is editorial.

* Generally agreeable, address the comments, can check wording

R2-2308980 Miscellaneous corrections on UE capabilities Huawei, HiSilicon CR Rel-17 38.306 17.5.0 0949 1 F TEI17

CB offline 007 (Huawei)

* agreed

ue-PowerClassPerBandPerBC-r17

[R2-2307094](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307094.zip) Discussion on ue-PowerClassPerBandPerBC-r17 OPPO discussion Rel-17 NR\_RF\_FR1\_enh

- QC agrees with the text of P1.

- Samsung think R4 discussions is ongoing, R2 better just wait

[R2-2308509](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308509.zip) Clarification on ue-PowerClassPerBandPerBC-r17 Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.5.0 0944 - F NR\_RF\_FR1\_enh-Core

- OPPO think the referred LS was not agreed in R4.

- Apple think R4 is still checking

- Ericsson agrees to wait for R4.

* Wait for R4, postpone

Aggregated BW

[R2-2307202](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307202.zip) Backward compatibility analysis on new UE capability signalling of maximum aggregated bandwidth for FR1 inter-band CA Qualcomm Incorporated, Apple, Ericsson discussion Rel-17 NR\_BCS4-Core

[R2-2308849](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308849.zip) Further considerations on new signaling of maximum aggregated bandwidth MediaTek Inc. discussion

[R2-2308862](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308862.zip) Discussion on the maximum aggregated bandwidth Huawei, HiSilicon discussion Rel-17 NR\_BCS4-Core

R2-2309208

Offline 008 (QC), on backwards compatibility and related potential enhancements. Include also FR2.

FR1 inter-band CA

* RAN2 considers implementation scenarios 1 and 3 below in future discussion.

1. Legacy UE/NW not supporting BCS5

2. UE/NW supporting BCS5, but not the maximum aggregated BW signalling

3. UE/NW supporting BCS5 and the maximum aggregated BW signalling

* 2: On top of the solution currently discussed, further discuss signalling solution according to the following principles.

Introduce new CC BW UE capability at FSPC level, which is only applicable to BCS5.

For BCS5, NW ignores the existing *supportedBandwidth* in FSPC but look at the new CC BW capability and the maximum aggregated BW.

UE populates the existing *supportedBandwidth* in FSPC only for the purpose of legacy BCS.

Introduce new “Total aggregated BW” UE capability signalled per band combination, including FDD+TDD

FFS whether to introduce “Total number of MIMO layers” signalled per band combination.

FR2 FBG5

* 3:Agree that RAN2 considers implementation scenarios 1 and 3 below in future discussion.

1 Legacy UE/NW not supporting FBG5

2 UE/NW supporting FBG5, but not the maximum aggregated BW signalling

3 UE/NW supporting FBG5 and the maximum aggregated BW signalling

* 3b: Introduce new “Total aggregated BW” UE capability signalled per band per Band Combination,
* 4: On top of the solution currently discussed, further discuss signalling solution according to the following principle.

FFS whether to introduce “Total number of MIMO layers” signalled per band per band combination.

DISCUSSION

- MTK wonder for P2 second last bullet TDD + FDD

- Apple add 3b.

- on the FFS regarding total MIMO layers, HW think this is a different aspect, UE vendors think there are similarities from UE resource point of view. HW think we need more analysis. - TMO think this is related to processing power and think we need to discuss this further

- QC proposes email discussion. HW want anyway to postpone MIMO layers discussion next meeting. TMO think this is important.

- Chair think that we can discuss the outcome of the email discussion next meeting, and it is known that the MIMO layers part is the least discussed so far ..

* Long email discussion (QC), including CRs (including MIMO layers)

[R2-2307203](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307203.zip) Introduction of maximum aggregated bandwidth for FR1 inter-band CA Qualcomm Incorporated, Apple, Ericsson CR Rel-17 38.331 17.5.0 4178 - C NR\_BCS4-Core

[R2-2307204](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307204.zip) Introduction of maximum aggregated bandwidth for FR1 inter-band CA Qualcomm Incorporated, Apple, Ericsson CR Rel-17 38.306 17.5.0 0932 - C NR\_BCS4-Core

[R2-2308851](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308851.zip) Introduction of aggregated bandwidth capability signaling MediaTek Inc. CR Rel-17 38.331 17.5.0 4291 - B NR\_BCS4-Core

[R2-2308852](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308852.zip) Introduction of aggregated bandwidth capability signaling MediaTek Inc. CR Rel-17 38.306 17.5.0 0948 - B NR\_BCS4-Core

[R2-2307876](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307876.zip) Building on agg BW signaling for FR2 R2-R12 BW classes Apple, Qualcomm, Ericsson discussion Rel-17 NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core

[R2-2307874](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307874.zip) Introduction of maximum aggregated bandwidth for FR1 inter-band CA and for FR2 intra-band CA Apple Inc , Qualcomm Incorporated, Ericsson CR Rel-17 38.331 17.5.0 4217 - C NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core

[R2-2307875](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307875.zip) Introduction of maximum aggregated bandwidth for FR1 inter-band CA and for FR2 intra-band CA Apple Inc , Qualcomm Incorporated, Ericsson CR Rel-17 38.306 17.5.0 0939 - C NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core

FR2 CA BW classes

[R2-2308648](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308648.zip) Discussion on newly introduced FR2 CA BW Classes Huawei, HiSilicon discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

[R2-2308909](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308909.zip) Introduction of FR2 FBG2 CA BW classes ZTE Corporation, Sanechips discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

- Ericsson has some sympathy with HW. The R2- BW classes overlap with RSTU and there is no technical reason for having RSTU. Can send an LS. Apple has a similar view, and think it is better to ask, as removal later is ugly and NBC.

* Send the LS as proposed in 8648.

R2-2309214

- CB 009 (Huawei) LS out

- Ericsson and Apple think we should mention that we have already introduced signalling for R2-R12.

- Chair: Discussions came up in R2 on the need for R, S, T, U, as R2 have already introduced signalling for R2-R12, and these classes completely overlap with R, S, T, U

* Approved in R2-2309219

Redcap Multiple CORESETs

[R2-2308060](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308060.zip) Clarification on multipleCORESET for RedCap UE ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

- Apple think this is a R1 defined capability, and R2 should not change.

- HW: need checking of UE impl

- QC: NBC proposal, change definition of existing cap.

- Ericsson think companies need to check, and this it related to coreset ID discussion

- Chair: significant level of confusion, may come back at a later point. If we can first converge that there is a problem that is not easily avoided we can think about solutions ..

* No support for the moment, noted

[R2-2308061](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308061.zip) Correction on multipleCORESET for RedCap UE ZTE Corporation, Sanechips CR Rel-17 38.306 17.5.0 0943 - F NR\_redcap-Core

feMIMO SRS carrier switching

[R2-2308491](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308491.zip) Filter of SRS carrier switching capabilities Ericsson CR Rel-17 38.331 17.5.0 4255 - F NR\_FeMIMO-Core

* agreed

MGE independentGapConfig-maxCC

[R2-2308826](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308826.zip) Correction of the capability independentGapConfig-maxCC Qualcomm Incorporated, Ericsson CR Rel-17 38.306 17.5.0 0947 - F NR\_MG\_enh-Core

[R2-2308827](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308827.zip) Correction of the capability independentGapConfig-maxCC Qualcomm Incorporated, Ericsson CR Rel-17 38.331 17.5.0 4290 - F NR\_MG\_enh-Core

- Apple and Lenovo wonder why dummify, better to make smaller change. QC and Ericsson prefer to have this for NR only.

- ZTE think this is not needed. Indp gap not applicable. QC think indeed it is applicable to EN-DC and LTE SA. Apple agree with QC.

- Apple think that a solution where we only rely on current field is best ..

- Chair: there seems to be gounds for consensus, but currently diverging views on the solution n

Offline 011 (QC)

- QC think there is confusion on the existing signalling. Offline has clarified part of this, and more discussions are needed. Could have a long email discussion. Need to decide how current parameters are interpreted and decide if new are needed, incl CRs

* Continue by long email discussion

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

Slicing

[R2-2308251](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308251.zip) NSAG validity when TAI list is omitted Ericsson discussion Rel-17 NR\_slice-Core

- Apple are ok with P1, support the CR.

- QC ok with the proposal, need to check the CR,

* RAN2 confirms that in case TAI list is not provided for an NSAG, the NSAG is valid in the whole PLMN.

[R2-2308252](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308252.zip) NSAG validity when TAI list is omitted Ericsson CR Rel-17 38.304 17.5.0 0351 - F NR\_slice-Core

R2-2309206 NSAG validity when TAI list is omitted Ericsson CR Rel-17 38.304 17.5.0 0351 1 F NR\_slice-Core

CB 012 allow checking and improvement

* agreed

## 6.2 NR Sidelink relay

(NR\_SL\_Relay-Core; leading WG: RAN2; REL-17; WID: RP-212601)

Tdoc Limitation: 2 tdocs

### 6.2.1 Control plane and Stage-2 corrections

A single CR with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur. Larger open issues can be discussed with contributions (limited time).

[R2-2307194](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307194.zip) 38.331\_CR\_Corrections to processing of paging information received via Relay UE Samsung Electronics Co., Ltd CR Rel-17 38.331 17.5.0 4177 - F NR\_SL\_relay-Core

[R2-2307239](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307239.zip) Correction of RemoteUEInformationSidelink transmission condition OPPO CR Rel-17 38.331 17.5.0 4180 - F NR\_SL\_relay-Core

[R2-2307727](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307727.zip) Conditions for RRC connection establishment and resume for NR sidelink discovery Samsung, Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4209 - F NR\_SL\_relay-Core, NR\_SL\_enh-Core

[R2-2307755](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307755.zip) Correction on NR Sidelink Relay RRC Philips International B.V. CR Rel-17 38.331 17.5.0 4212 - F NR\_SL\_relay-Core

[R2-2307852](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307852.zip) Corrections on SRAP related configurations for SL relay Apple CR Rel-17 38.331 17.5.0 4215 - F NR\_SL\_relay-Core

[R2-2307853](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307853.zip) Corrections on the reporting of L2 ID for L2 U2N relay operation Apple CR Rel-17 38.331 17.5.0 4216 - F NR\_SL\_relay-Core

[R2-2307955](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307955.zip) Correction on CHO and Path Switching of Remote UE NEC Corporation CR Rel-17 38.300 17.5.0 0695 - F NR\_SL\_relay-Core

[R2-2308210](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308210.zip) Miscellaneous corrections for SL relay Huawei, HiSilicon CR Rel-17 38.331 17.5.0 4235 - F NR\_SL\_relay-Core

[R2-2308271](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308271.zip) Corrections to TS 38.331 on SL relay (re)selection ZTE, CAICT, Sanechips CR Rel-17 38.331 17.5.0 4241 - F NR\_SL\_relay-Core

[R2-2308272](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308272.zip) Corrections to TS38.300 on SL relay (re)selection ZTE, CAICT, Sanechips CR Rel-17 38.300 17.5.0 0698 - F NR\_SL\_relay-Core

[R2-2308275](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308275.zip) Correction to 38.331 on U2N relay (re)selection vivo CR Rel-17 38.331 17.5.0 4240 - F NR\_SL\_relay-Core

[R2-2308550](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308550.zip) Miscellaneous Corrections for SL Relays Ericsson España S.A. CR Rel-17 38.331 17.5.0 4261 - D NR\_SL\_relay-Core

[R2-2308553](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308553.zip) Miscellaneous Correction for SL Relays Ericsson CR Rel-17 38.300 17.5.0 0703 - D NR\_SL\_relay-Core

[R2-2308714](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308714.zip) Corrections on U2N Relay ASUSTeK CR Rel-17 38.331 17.5.0 4281 - F NR\_SL\_relay-Core

### 6.2.2 User plane corrections

A single CR with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur for the corresponding spec. Larger open issues can be discussed with contributions (limited time).

[R2-2307238](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307238.zip) Correction of IE name sl-SRAP-ConfigRemote OPPO CR Rel-17 38.351 17.5.0 0023 - F NR\_SL\_relay-Core

[R2-2307756](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307756.zip) Correction on SRAP for sidelink relay Philips International B.V. CR Rel-17 38.351 17.5.0 0024 - F NR\_SL\_relay-Core

[R2-2308211](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308211.zip) Clarification on the BEARER ID in SRAP data PDU Huawei, HiSilicon CR Rel-17 38.351 17.5.0 0025 - F NR\_SL\_relay-Core

## 6.3 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: RP-211557)

Tdoc Limitation: 1 tdocs

A single CR per TS with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed with contributions with CR in the appendix of the contribution

[R2-2307113](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307113.zip) Correction on the Capability of TA Reporting vivo CR Rel-17 38.306 17.5.0 0931 - F NR\_NTN\_solutions-Core

[R2-2307498](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307498.zip) Triggering of TA Report during handover Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2308253](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308253.zip) Clarification of UE configuration in TN and NTN Ericsson CR Rel-17 38.331 17.5.0 4239 - F NR\_NTN\_solutions-Core

[R2-2308520](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308520.zip) Correction on RRC Release for NR NTN Samsung CR Rel-17 38.331 17.5.0 4257 - F NR\_NTN\_solutions-Core

## 6.4 NR positioning enhancements

(NR\_pos\_enh-Core; leading WG: RAN1; REL-17; WID: RP-210903)

Tdoc Limitation: 2 tdocs

### 6.4.1 Stage 3 corrections

A single CR per TS (RRC, LPP, MAC, UEcap 306) with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur. Larger open issues can be discussed with contributions (limited time).

[R2-2307359](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307359.zip) Correction to Multi-RTT Huawei, HiSilicon CR Rel-17 37.355 17.5.0 0455 - F NR\_pos\_enh-Core

[R2-2307360](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307360.zip) Correction to UE capability for batch reporitng Huawei, HiSilicon CR Rel-17 37.355 17.5.0 0456 - F NR\_pos\_enh-Core

[R2-2307504](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307504.zip) Missing error cause code for DL PRS Measurements Fraunhofer IIS, Ericsson CR Rel-17 37.355 17.5.0 0457 - F NR\_pos\_enh-Core

[R2-2308478](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308478.zip) Missing finer periodicities than 1s Ericsson CR Rel-17 37.355 17.5.0 0450 1 F NR\_pos\_enh-Core R2-2306026

[R2-2308479](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308479.zip) Missing LPP support for sub 1s location information reporting periodicity Ericsson discussion Rel-17

[R2-2308690](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308690.zip) Addition of missing values for dl-prs-ResourceSetPeriodicityReq-r17 Samsung CR Rel-17 37.355 17.5.0 0464 - F NR\_pos\_enh-Core

### 6.4.2 Stage 2 corrections

A single CR with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur. This agenda item will be handled at lower priority.

[R2-2308759](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308759.zip) Correction of PRU overview description Nokia, Nokia Shanghai Bell CR Rel-17 38.305 17.5.0 0139 - F NR\_pos\_enh-Core

## 6.5 SON MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: RP-201281)

Tdoc Limitation: 2 tdocs

### 6.5.1 SON Corrections

[R2-2307705](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307705.zip) Correction on field sourcePCellId and targetPCellId in TS 38.331 CATT CR Rel-17 38.331 17.5.0 4207 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2307706](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307706.zip) Correction on choCandidate and timeSinceCHO-Reconfig logging in SHR CATT CR Rel-17 38.331 17.5.0 4208 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308421](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308421.zip) Correction on logging RLM resources in the RLF report Ericsson, Qualcomm CR Rel-17 38.331 17.5.0 4249 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308422](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308422.zip) Duppliacted PSCell ID logging in the RA report Ericsson CR Rel-17 38.331 17.5.0 4250 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308554](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308554.zip) NB-IoT UE location Info in RLF report Qualcomm Incorporated discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308555](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308555.zip) Correction on UE location information in NB-IoT RLF report Qualcomm Incorporated CR Rel-17 36.331 17.5.0 4946 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308650](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308650.zip) Correction on timeSinceCHO-Reconfig in TS 38.331 SHARP Corporation CR Rel-17 38.331 17.5.0 4266 - F NR\_ENDC\_SON\_MDT\_enh-Core

### 6.5.2 MDT Corrections

[R2-2307068](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307068.zip) Reply LS on the user consent for trace reporting (S3-231398; contact: Huawei) SA3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3 Cc:RAN2, SA5, SA1, RAN

[R2-2307075](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307075.zip) LS on Excess Packet Delay Threshold for MDT (S5-232150; contact: Nokia) SA5 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3 Cc:RAN2

[R2-2307282](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307282.zip) Correction to LoggedMeasurementConfiguration type Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.5.0 4183 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308500](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308500.zip) CR to 37320 on RLF report and CEF report ZTE Corporation, Sanechips CR Rel-17 37.320 17.4.0 0127 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308643](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308643.zip) Correction on delay definitions for split DRB Huawei, HiSilicon CR Rel-17 38.314 17.3.0 0029 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2308644](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308644.zip) Discussion on NB-IoT UE location in RLF report Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

## 6.6 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: RP-202846)

Tdoc Limitation: 2 tdocs

Note for RRC and MAC CRs, CR rapporteur’s summary and suggestion may be provided. CR rapporteurs will take care of miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company first for small changes (e.g. non-controversial clarification/correction, editorial correction, etc.).

[R2-2307098](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307098.zip) Correction on SIB/Preconfiguration applicability OPPO CR Rel-17 38.304 17.5.0 0349 - F NR\_SL\_enh-Core, NR\_SL\_relay-Core

[R2-2307752](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307752.zip) Correction on NR Sidelink MAC Philips International B.V. CR Rel-17 38.321 17.5.0 1642 - F NR\_SL\_enh-Core

[R2-2307754](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307754.zip) Correction on NR Sidelink RRC Philips International B.V. CR Rel-17 38.331 17.5.0 4211 - A NR\_SL\_enh-Core

### 6.6.1 Control plane and stage 2 corrections

[R2-2307483](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307483.zip) Correction on SUI transmission for sidelink DRX ZTE Corporation, Sanechips CR Rel-17 38.331 17.5.0 4191 - F NR\_SL\_enh-Core

[R2-2307561](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307561.zip) Miscellaneous corrections for SL enhancements Huawei, HiSilicon, OPPO CR Rel-17 38.331 17.5.0 4195 - F NR\_SL\_enh-Core, NR\_SL\_relay-Core

[R2-2307939](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307939.zip) Correction to 38300 on SL DRX Ericsson CR Rel-17 38.300 17.5.0 0694 - F NR\_SL\_enh-Core

[R2-2307980](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307980.zip) Correction to 38.300 on idle/inactive sidelink UEs vivo CR Rel-17 38.300 17.5.0 0696 - F NR\_SL\_enh-Core, NR\_SL\_relay-Core

[R2-2307981](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307981.zip) Correction to 38.331 on IUC vivo CR Rel-17 38.331 17.5.0 4221 - F NR\_SL\_enh-Core

[R2-2308360](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308360.zip) Correction on usage of sensing results with preferred resource set Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.5.0 0699 - F NR\_SL\_enh-Core

[R2-2308521](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308521.zip) Rapporteur Miscellaneous Stage 2 Corrections InterDigital France R&D, SAS CR Rel-17 38.300 17.5.0 0702 - F NR\_SL\_enh2-Core

[R2-2308562](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308562.zip) Summary on RRC corrections for SL enhancements Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core Late

### 6.6.2 User plane corrections

[R2-2307240](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307240.zip) Miscellaneous corrections on TS 38.321 for SL enhancements OPPO CR Rel-17 38.321 17.5.0 1636 - F NR\_SL\_enh-Core

[R2-2307571](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307571.zip) Correction on Inter-UE Coordination Information MAC CE Huawei, HiSilicon CR Rel-17 38.321 17.5.0 1638 - F NR\_SL\_enh-Core

[R2-2307572](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307572.zip) Corrections on SL DRX Huawei, HiSilicon CR Rel-17 38.321 17.5.0 1639 - F NR\_SL\_enh-Core

[R2-2307721](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307721.zip) Corrections on SL DRX Xiaomi CR Rel-17 38.321 17.5.0 1640 - F NR\_SL\_enh-Core

[R2-2307722](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307722.zip) Corrections on IUC MAC CE Xiaomi CR Rel-17 38.321 17.5.0 1641 - F NR\_SL\_enh-Core

[R2-2308367](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308367.zip) Differentiation between SL DRX configuration and active time specification Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.5.0 1645 - F NR\_SL\_enh-Core

[R2-2308715](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308715.zip) MAC corrections for Sidelink ASUSTeK CR Rel-17 38.321 17.5.0 1654 - F NR\_SL\_enh-Core

# 7 Rel-18

## 7.0 Common

Multi-WI Rel-18 items, e.g. cross-WI-issues not handled under another WI. UE capabilities.

### 7.0.1 UE Capabilites

Multi-WI handling of Rel-18 feature lists and UE capability Mega CRs.

[R2-2307013](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307013.zip) LS on Rel-18 RAN1 UE features list for NR after RAN1#113 (R1-2306225; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL, NR\_pos\_enh2, NR\_netcon\_repeater, NR\_NTN\_enh, NR\_SL\_enh2, NR\_redcap\_enh, NR\_MC\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_DSS\_enh, NR\_BWP\_wor, TEI18 To:RAN2 Cc:RAN4

* Noted

[R2-2308086](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308086.zip) Running UE capability CR on 38.331 for Rel-18 R1 R4 feature lists Intel Corporation draftCR Rel-18 38.331 17.5.0 B NR\_netcon\_repeater, NR\_DSS\_enh, NR\_MC\_enh, NR\_BWP\_wor, TEI18

[R2-2308087](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308087.zip) Running UE capability CR on 38.306 for Rel-18 R1 R4 feature lists Intel Corporation draftCR Rel-18 38.306 17.5.0 B NR\_netcon\_repeater, NR\_DSS\_enh, NR\_MC\_enh, NR\_BWP\_wor, TEI18

[R2-2308088](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308088.zip) Running UE capability CR on 38.822 for Rel-18 R1 R4 feature lists Intel Corporation draftCR Rel-18 38.822 17.1.0 B NR\_netcon\_repeater, NR\_DSS\_enh, NR\_MC\_enh, NR\_BWP\_wor, TEI18

- Intel: we are following what we have done for previous releases. CRs above are a first attempt. Can provide comments offline to Sudeep, no plan to endorse at current meeting.

- Lenovo think TEI is mainly positioning related, and wonder if this shall be covered here. Intel think it is also about whether gNB need to know.

- Nokia think that a lot can be handled offline.

- No attempt to decide anything this meeting

### 7.0.2 Other

[R2-2307021](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307021.zip) LS on Rel-18 higher-layers parameter list (R1-2306270; contact: Ericsson) RAN1 LS in Rel-18 NR\_netcon\_repeater-Core, NR\_DSS\_enh-Core, NR\_MC\_enh-Core, NR\_MIMO\_evo\_DL\_UL-Core, NR\_SL\_enh2-Core, NR\_pos\_enh2-Core, NR\_redcap\_enh-Core, NR\_BWP\_wor-Core, IoT\_NTN\_enh-Core, TEI18 To:RAN2, RAN3 Cc:RAN4

* Noted, to be taken into account for each WI.

[R2-2308254](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308254.zip) Rel-18 ASN.1 review plan Ericsson discussion Rel-18 TEI18

- HW wonder if we will have a dedicated ASN.1 review meeting.

* Noted

## 7.1 NR network-controlled repeaters

(NR\_NetConRepeater; leading WG: RAN1; REL-18; WID: RP-230175)

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

Corrections. For smaller corrections please contact CR editor / Rapporteur directly.

[R2-2307469](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307469.zip) Missing agreement and clarifications of in-band network-controlled repeater NEC discussion Rel-18 NR\_netcon\_repeater

R2-2307500 Correction on 38.304 on NCR Huawei, HiSilicon CR Rel-18 38.304 17.5.0 0350 - F NR\_netcon\_repeater Withdrawn

[R2-2307688](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307688.zip) Miscellaneous Corrections to NCR RRC Running CR vivo draftCR Rel-18 38.331 17.5.0 NR\_netcon\_repeater

[R2-2308069](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308069.zip) Introducing support for Network Controlled Repeaters to 38.331 ZTE Corporation (Rapporteur) CR Rel-18 38.331 17.5.0 4162 2 B NR\_netcon\_repeater R2-2306609

[R2-2308095](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308095.zip) Introducing support for Network Controlled Repeaters to 38.321 Samsung CR Rel-18 38.321 17.5.0 1554 6 B NR\_netcon\_repeater-Core R2-2306608

[R2-2308895](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308895.zip) RRC corrections for NCR related to security Samsung Electronics Czech draftCR Rel-18 36.331 17.5.0 C NR\_netcon\_repeater

[R2-2308910](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308910.zip) Small corrections for NCR Ericsson CR Rel-18 38.300 17.5.0 0685 1 B NR\_netcon\_repeater R2-2306606

[R2-2308911](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308911.zip) Correction on periodicity for NCR beam configuration Ericsson draftCR Rel-18 38.331 17.5.0 F NR\_netcon\_repeater

## 7.2 Expanded and improved NR positioning

(NR\_pos\_enh2; leading WG: RAN1; REL-18; WID: RP-231460)

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

### 7.2.1 Organizational

Including incoming LSs and rapporteur inputs.

[R2-2307004](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307004.zip) LS reply on the RAT-dependent positioning integrity (R1-2306157; contact: InterDigital) RAN1 LS in Rel-18 NR\_pos\_enh2 To:RAN2 Cc:RAN3

[R2-2307010](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307010.zip) LS to RAN2 on SRS bandwidth aggregation for positioning (R1-2306214; contact: ZTE) RAN1 LS in Rel-18 NR\_pos\_enh2 To:RAN2

[R2-2307031](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307031.zip) Reply LS on Authorization and Provisioning for Ranging/SL positioning service (R3-233424; contact: Xiaomi) RAN3 LS in Rel-18 Ranging\_SL, NR\_pos\_enh2 To:SA2 Cc:RAN1, RAN2

[R2-2307032](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307032.zip) Reply LS on SRS Configuration Request (R2-2302278; contact: Huawei) RAN3 LS in Rel-18 NR\_pos\_enh2 To:RAN2 Cc:RAN1

[R2-2307042](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307042.zip) LS on reporting granularity for timing related positioning measurements (R4-2310166; contact: Huawei) RAN4 LS in Rel-18 NR\_pos\_enh2 To:RAN2, RAN3 Cc:RAN1

[R2-2307052](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307052.zip) Reply LS on the requirement on low power or high accuracy positioning (S1-231370; contact: Huawei) SA1 LS in Rel-18 5G\_eLCS\_Ph3 To:SA2 Cc:RAN1, RAN2

[R2-2307054](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307054.zip) Reply LS to LS to SA2 on Sidelink positioning procedure (S2-2305735; contact: Xiaomi) SA2 LS in Rel-18 Ranging\_SL To:RAN2, RAN1 Cc:SA3

[R2-2307056](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307056.zip) LS on assistance information provided to UE (S2-2307553; contact: Xiaomi) SA2 LS in Rel-18 Ranging\_SL To:RAN2

[R2-2307124](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307124.zip) Running MAC CR for LPHAP Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2307125](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307125.zip) Running MAC CR for Sidelink Positioning Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2307126](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307126.zip) Draft reply LS on timing measurement reporting granularity Huawei, HiSilicon LS out Rel-18 NR\_pos\_enh2 To:RAN4 Cc:RAN1, RAN3

[R2-2307127](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307127.zip) Discussion on measurement reporting granularity Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2307391](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307391.zip) LPP running CR for RAT-dependent integrity CATT draftCR Rel-18 37.355 17.5.0 NR\_pos\_enh2

[R2-2307662](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307662.zip) Further considerations on SLPP specification Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2307663](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307663.zip) TS 38.355 v0.0.4 Intel Corporation draft TS Rel-18 38.355 0.0.4 NR\_pos\_enh2

[R2-2308053](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308053.zip) Discussion on the reply LSs to SA2 on SL Positioning OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2308139](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308139.zip) [draft]Reply LS to RAN1 on SRS bandwidth aggregation for positioning ZTE Corporation LS out Rel-18 NR\_pos\_enh2 To:RAN1

[R2-2308259](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308259.zip) Discussion on R18 positioning UE capabilities Xiaomi discussion

[R2-2308385](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308385.zip) Running Stage 2 CR for 'Expanded and improved NR positioning' Qualcomm Incorporated draftCR Rel-18 38.305 17.5.0 B NR\_pos\_enh2

[R2-2308386](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308386.zip) Stage 2 TP for SL-MO-LR/SL-MT-LR Qualcomm Incorporated discussion

[R2-2308387](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308387.zip) Stage 2 TP for SLPP Transport between UE and LMF Qualcomm Incorporated discussion

[R2-2308395](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308395.zip) Stage 2 TP for SLPP Transport between UEs Qualcomm Incorporated discussion

[R2-2308484](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308484.zip) Rapporteur CR for Positioning RRC Changes Ericsson draftCR Rel-18 38.331 17.5.0 B NR\_pos\_enh2

### 7.2.2 Sidelink positioning

Positioning architecture and signalling procedures (e.g. configuration, measurement reporting, etc) to enable sidelink positioning. Including measurements to enable RTT-based positioning, SL-AoA, and SL-TDOA; signalling and associated UE behaviour for support of unicast, groupcast (not including many-to-one) and broadcast of SL-PRS transmissions; reporting signalling and procedures to facilitate support of SL positioning in all coverage scenarios and for PC5-only and joint PC5-Uu scenarios; and signalling to NG-RAN for SL positioning and service authorization as needed.

Including report of [Post122][402][POS] SLPP session handling (Intel)

[R2-2307122](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307122.zip) Discussion on higher layer aspects for Sidelink Positioning Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2307123](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307123.zip) Discussion on lower layer aspects for Sidelink Positioning Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2307185](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307185.zip) UE Positioning using Sidelink in OoC Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2307187](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307187.zip) Preconfigured Assistance Data for UE Positioning in Hybrid Uu and PC5 scenarios Fraunhofer IIS, Fraunhofer HHI, Ericsson discussion

[R2-2307232](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307232.zip) Discussion of SLPP / LPP signalling procedures Nokia Netherlands discussion Rel-18

[R2-2307241](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307241.zip) Discussion of session-less and session-based positioning Nokia Netherlands discussion Rel-18

[R2-2307340](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307340.zip) SLPP signalling in UE-only sidelink positioning/ranging procedure MediaTek Inc. discussion Rel-18 NR\_pos\_enh2

[R2-2307341](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307341.zip) Pathological cases of network-based operation for sidelink positioning MediaTek Inc. discussion Rel-18 NR\_pos\_enh2 Revised

[R2-2307392](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307392.zip) Discussion on sidelink positioning CATT discussion Rel-18 NR\_pos\_enh2

[R2-2307426](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307426.zip) Discussion on sidelink positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2307507](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307507.zip) Discussion on SL positioning Xiaomi discussion Rel-18

[R2-2307660](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307660.zip) Report of [ 402] SLPP session handling Intel Corporation discussion Rel-18 NR\_pos\_enh2 Late

[R2-2307661](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307661.zip) Further considerations on sidelink positioning Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2307778](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307778.zip) SLPP design for session aspects Samsung Electronics Romania discussion

[R2-2307823](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307823.zip) SL positioning procedures Apple discussion NR\_pos\_enh2

[R2-2308052](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308052.zip) Further discussion on sidelink positioning OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2308125](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308125.zip) Discussion on sidelink positioning Spreadtrum Communications discussion Rel-18

[R2-2308138](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308138.zip) Discussion on sidelink positioning ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2308152](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308152.zip) Considerations on sidelink positioning resources Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2308276](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308276.zip) Discussion on SL Positioning Lenovo discussion Rel-18

[R2-2308284](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308284.zip) Discussion on sidelink positioning ROBERT BOSCH GmbH discussion Rel-18

[R2-2308316](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308316.zip) Considerations on Sidelink positioning CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2308384](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308384.zip) Discussion on sidelink positioning InterDigital, Inc. discussion Rel-18 NR\_pos\_enh2

[R2-2308396](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308396.zip) Sidelink Positioning Protocol (SLPP) Signaling and Procedures Qualcomm Incorporated discussion

[R2-2308416](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308416.zip) Pathological cases of network-based operation for sidelink positioning MediaTek Inc., CATT discussion Rel-18 NR\_pos\_enh2 [R2-2307341](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307341.zip)

[R2-2308480](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308480.zip) Sidelink positioning Ericsson discussion Rel-18

[R2-2308557](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308557.zip) Discussion of resource allocation aspects Nokia Netherlands discussion

[R2-2308595](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308595.zip) Discussion on higher layer aspects for sidelink positioning LG Electronics Inc. discussion Rel-18

[R2-2308600](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308600.zip) Discussion on lower layer aspects for sidelink positioning LG Electronics Inc. discussion Rel-18

[R2-2308657](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308657.zip) Discussion on priority value for SL-PRS Samsung Electronics Co., Ltd discussion Rel-18 NR\_pos\_enh2

[R2-2308800](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308800.zip)  Further Discussions on Sidelink Positioning & Ranging CEWiT discussion

[R2-2308884](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308884.zip) Discussion on Anchor UE discovery and selection in sidelink positioning KT Corp. discussion Rel-18 NR\_pos\_enh2

[R2-2308908](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308908.zip) On the selection of Anchor UEs for Sidelink Positioning Philips International B.V. discussion Rel-18 NR\_pos\_enh2

[R2-2308935](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308935.zip) On the support of UE-only SL positioning in in-coverage and partial coverage scenarios Philips International B.V. discussion Rel-18 NR\_pos\_enh2

### 7.2.3 RAT-dependent integrity

Error modelling parameters, signalling, and procedures to support UE-based and LMF-based integrity of RAT-dependent positioning methods.

[R2-2307393](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307393.zip) Discussion on RAT-Dependent integrity CATT discussion Rel-18 NR\_pos\_enh2

[R2-2307427](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307427.zip) Remaining issues of RAT-dependent integrity vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2307664](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307664.zip) Further considerations on RAT dependent integrity Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2307999](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307999.zip) Discussion on RAT-dependent integrity Lenovo discussion Rel-18

[R2-2308050](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308050.zip) Consideration on RAT-dependent positioning integrity OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2308136](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308136.zip) Discussion on RAT-dependent methods positioning integrity ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2308260](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308260.zip) Discussion on RAT-dependent positioning integrity Xiaomi discussion

[R2-2308397](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308397.zip) Integrity of NR Positioning Technologies Qualcomm Incorporated discussion

[R2-2308482](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308482.zip) On RAT-dependent positioning Integrity Ericsson discussion Rel-18

[R2-2308616](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308616.zip) Discussion on RAT dependent integrity InterDigital, Inc. discussion Rel-18

### 7.2.4 LPHAP

Enhancements for enabling LPHAP use case 6 (TS 22.104), including extending eDRX cycle (coordinated with RedCap WI); SRS configuration enhancements based on validity area for UEs in RRC\_INACTIVE; DL-PRS measurements in RRC\_IDLE and reporting in RRC\_CONNECTED; and alignment between eDRX and PRS configurations.

Including report of [Post122][401][POS] SRS configuration and activation in LPHAP (CATT)

[R2-2307121](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307121.zip) Discussion on LPHAP Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2307186](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307186.zip) Enhancements for supporting LPHAP Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2307394](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307394.zip) Discussion on SRS configuration with validity area and alignment between PRS and (e)DRX CATT discussion Rel-18 NR\_pos\_enh2

[R2-2307428](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307428.zip) Discussion on solution of LPHAP vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2307665](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307665.zip) Further considerations on LPHAP Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2307824](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307824.zip) Alignment between DRX and PRS Apple discussion NR\_pos\_enh2

[R2-2308000](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308000.zip) Discussion on low power high accuracy positioning Lenovo discussion Rel-18

[R2-2308051](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308051.zip) Discussion on LPHAP enhancement OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2308126](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308126.zip) Discussion on LPHAP Spreadtrum Communications discussion Rel-18

[R2-2308135](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308135.zip) Discussion on LPHAP ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2308153](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308153.zip) Considerations on Low Power High Accuracy Positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2308261](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308261.zip) Discussion on LPHA positioning Xiaomi discussion

[R2-2308317](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308317.zip) Further considerations on LPHAP CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2308398](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308398.zip) Enhancements for LPHAP Qualcomm Incorporated discussion

[R2-2308481](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308481.zip) Discussion on Low Power High Accuracy Positioning Ericsson discussion Rel-18

[R2-2308618](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308618.zip) Discussion on LPHAP InterDigital, Inc. discussion Rel-18

[R2-2308693](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308693.zip) Discussion on alignment between (e)DRX and PRS Samsung discussion Rel-18 NR\_pos\_enh2

[R2-2308694](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308694.zip) Discussion on SRS configuration in RRC\_INACTIVE Samsung discussion Rel-18 NR\_pos\_enh2

[R2-2308812](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308812.zip) Report of [Post122][401][POS] SRS configuration and activation in LPHAP (CATT) CATT discussion Rel-18 NR\_pos\_enh2

### 7.2.5 RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning

RAN1 led objectives that may require progress in RAN1 before RAN2 can take decisions.

[R2-2307395](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307395.zip) Discussion on carrier phase positioning, bandwidth aggregation for positioning and Redcap positioning CATT discussion Rel-18 NR\_pos\_enh2

[R2-2307429](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307429.zip) RAN2-related issues about bandwidth aggregation vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2307455](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307455.zip) Discussion on RAN1 led positioning topics Huawei, HiSilicon discussion

[R2-2307666](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307666.zip) Considerations on other RAN1 led items Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2307827](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307827.zip) On-demand PRS with bandwidth aggregation Apple discussion NR\_pos\_enh2

[R2-2308001](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308001.zip) Discussion on RedCap positioning, carrier phase positioning and PRS/SRS bandwidth aggregation Lenovo discussion Rel-18

[R2-2308137](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308137.zip) Discussion on BW aggregation and RedCap positioning ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2308174](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308174.zip) Discussion on Frequency hopping for Positioning for RedCap Ues Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2308262](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308262.zip) Discussion on RedCap positioning, carrier phase positioning and bandwidth aggregation for positioning Xiaomi discussion

[R2-2308399](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308399.zip) Configuration Enhancements for DL-PRS Aggregation Qualcomm Incorporated discussion

[R2-2308483](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308483.zip) Discussion based upon RAN1 agreements on CPP, RedCap, Bandwidth aggregation Ericsson discussion Rel-18

[R2-2308619](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308619.zip) Discussion on positioning for RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning InterDigital, Inc. discussion Rel-18

[R2-2308761](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308761.zip) Assessment of impact of carrier phase positioning on higher layer protocols Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_pos\_enh2-Core]

## 7.3 Network energy savings for NR

(Netw\_Energy\_NR -Core; leading WG: RAN1; REL-18; WID: RP-223540)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.3.1 Organizational

LS, workplan, email discussion etc

Expected inputs: running CRs for the following: 38.300 [Ericsson], 38.331 [Huawei], 38.321 [InterDigital]

Expected inputs after more agreements are made: 38.304 [Apple] (if needed), 38.306 [Vivo]

[R2-2307017](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307017.zip) Reply LS on Cell DTX/DRX activation/deactivation (R1-2306246; contact: Huawei, Intel) RAN1 LS in Rel-18 Netw\_Energy\_NR-Core To:RAN2 Cc:RAN3

[R2-2307053](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307053.zip) Reply LS on 3GPP work on Energy Efficiency (S1-231805; contact: Nokia) SA1 LS in Rel-18 EE5GPLUS\_Ph2 To:SA5 Cc:SA, RAN, CT, SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4, CT3, CT4

[R2-2307063](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307063.zip) Reply LS on the enhancements to restricting paging in a limited area (S2-2307984; contact: Qualcomm) SA2 LS in Rel-18 Netw\_Energy\_NR-Core To:RAN3 Cc:RAN2

[R2-2307073](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307073.zip) LS on 3GPP work on Energy Efficiency (S4-231111; contact: Qualcomm) SA4 LS in Rel-18 EE5GPLUS\_Ph2 To:SA5, SA, RAN, CT Cc:SA1, SA2, SA3, SA6, RAN1, RAN2, RAN3, RAN4, CT1, CT3, CT4

[R2-2307528](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307528.zip) Running 38.331 CR - Introduction of Network energy savings for NR Huawei, HiSilicon draftCR Rel-18 38.331 17.5.0 Netw\_Energy\_NR-Core

[R2-2308044](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308044.zip) Work plan for NR network energy savings Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308393](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308393.zip) Running CR to 38.321 for Network Energy Savings InterDigital draftCR Rel-18 38.321 17.5.0 Netw\_Energy\_NR-Core

[R2-2308394](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308394.zip) TS 38.321 open issues for NES InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308492](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308492.zip) Running CR to 38300 for Network energy savings Ericsson CR Rel-18 38.300 17.5.0 0689 1 B Netw\_Energy\_NR-Core R2-2306966

### 7.3.2 DTX/DRX mechanism

[R2-2307147](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307147.zip) Joint Operation between UE C-DRX and Cell DTX NEC discussion NR\_SL\_enh2

[R2-2307150](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307150.zip) Discussion on Cell DTX/DRX configuration and operation Xiaomi discussion Rel-18

[R2-2307177](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307177.zip) Remaining issues for Cell DTX\_DRX Samsung Electronics Co., Ltd discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307178](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307178.zip) Various (RRC Procedure, Measurement, SR, CG etc.) alignment aspects Lenovo discussion Netw\_Energy\_NR-Core

[R2-2307524](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307524.zip) Discussion on cell DTX and DRX Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307527](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307527.zip) Outcome of [Post122][307][NES] DTX/DRX – alignment, single/multiple configurations, parameter values (Huawei) Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307647](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307647.zip) Cell DTX-DRX Mechanism Qualcomm Incorporated discussion Rel-18

[R2-2307713](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307713.zip) Cell DTX/DRX NES Techniques III discussion

[R2-2307717](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307717.zip) Discussion on cell DTX/DRX KDDI Corporation discussion

[R2-2307760](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307760.zip) SPS/CG and MAC CE Activation/Deactivation in Cell DTX/DRX Samsung discussion Rel-18

[R2-2307787](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307787.zip) Remaining issues on Cell DTX/DRX Nokia, Nokia Shanghai Bell discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307808](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307808.zip) Discussion on key issues of Cell DTX/DRX Apple discussion Netw\_Energy\_NR-Core

[R2-2307897](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307897.zip) TAT aspects under Cell-DTX/Cell-DRX FGI discussion

[R2-2307898](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307898.zip) Discussion on cell DTX and DRX FGI discussion

[R2-2307911](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307911.zip) Single configuration with multiple DTX\_DRX patterns and explicit signalling BT Plc, Nokia, T-Mobile, Deutsche Telekom, NTT Docomo, KDDI, ZTE discussion Rel-18

[R2-2308179](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308179.zip) Discussion on DTX/DRX mechanism OPPO discussion Rel-18 Netw\_Energy\_NR

[R2-2308279](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308279.zip) The remaining issues on cell DTX and DRX ZTE corporation, Sanechips discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308301](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308301.zip) Discussion on cell DTXDRX CMCC discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308388](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308388.zip) Remaining issues on Cell DTX/DRX InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308448](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308448.zip) UL considerations for Cell DTX/DRX NEC Telecom MODUS Ltd. discussion R2-2305855

[R2-2308493](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308493.zip) Further aspects on cell DTX/DRX Ericsson discussion Withdrawn

[R2-2308534](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308534.zip) Cell DTX/DRX traffic adaptations Fraunhofer IIS, Fraunhofer HHI discussion Rel-18

[R2-2308593](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308593.zip) Discussion on DTX/DRX mechanism LG Electronics Inc. discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308606](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308606.zip) Discussion on Cell DTX/DRX Fujitsu discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308703](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308703.zip) Support multiple configuration of Cell DTX/DRX ETRI discussion Rel-18

[R2-2308727](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308727.zip) Leftover issues of Cell DTX/DRX CATT, Turkcell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2308737](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308737.zip) Remaining issues for cell DTX-DRX vivo discussion Rel-18

[R2-2308738](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308738.zip) UE C-DRX configuration used upon cell DTX activation vivo, Fraunhofer IIS, Huawei, HiSilicon, LG Electronics Inc., MediaTek Inc., NEC, Xiaomi discussion Rel-18

[R2-2308794](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308794.zip) Further aspects on cell DTX/DRX Ericsson discussion

[R2-2308886](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308886.zip) Cell DTX/DRX NES Techniques CEWiT discussion

### 7.3.3 SSB-less Scell operation

Contributions on inter-band CA for FR1 and co-located cells

[R2-2307152](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307152.zip) Discussion on inter-band SSB-less SCell Xiaomi discussion Rel-18

[R2-2307519](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307519.zip) On NES SSB-less SCell operation Nokia, Nokia Shanghai Bell discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307648](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307648.zip) SSB-less Interband CA Qualcomm Incorporated discussion Rel-18

[R2-2307810](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307810.zip) Further Discussion on RAN2 work of inter-band SSB-less CA Apple discussion Netw\_Energy\_NR-Core

[R2-2308026](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308026.zip) Discuss on SSB-less SCell operation in NES Lenovo discussion Rel-18

[R2-2308180](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308180.zip) Discussion on SSB-less Scell operation OPPO discussion Rel-18 Netw\_Energy\_NR

[R2-2308280](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308280.zip) Discussion on SSB-less SCell operation for NES ZTE corporation, Sanechips discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308359](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308359.zip) On SBB/SIB-less NES solutions Dell Technologies discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2308391](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308391.zip) SSB-less Scell operation InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308728](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308728.zip) Enhancements on SSB-less SCell operation CATT discussion Rel-18 FS\_Netw\_Energy\_NR

### 7.3.4 Cell selection/re-selection

Contributions mechanisms to prevent legacy UEs camping on cells adopting the Rel-18 NES mode

[R2-2307149](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307149.zip) Discussion on RRC\_IDLE/INACTIVE UE behavior due to NES Xiaomi discussion Rel-18

[R2-2307220](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307220.zip) Discussion on cell selection and reselection for NES Samsung Electronics GmbH discussion Rel-18

[R2-2307525](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307525.zip) Discussion on cell selection/reselection for NES Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307765](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307765.zip) Reselection and Paging handling for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2307809](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307809.zip) Detailed mechanism of legacy UE barring in NES cell Apple discussion Netw\_Energy\_NR-Core

[R2-2308027](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308027.zip) Cell selection/re-selection in NES Lenovo discussion Rel-18

[R2-2308181](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308181.zip) Discussion on cell selection reselection OPPO discussion Rel-18 Netw\_Energy\_NR

[R2-2308281](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308281.zip) Consideration on cell selection and reselection enhancements for NES ZTE corporation, Sanechips discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308333](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308333.zip) Discussion on cell barring and reselection for NES CMCC discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308389](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308389.zip) Cell selection and resection for NES InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308449](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308449.zip) Procedure for legacy UEs camping on NES cells NEC Telecom MODUS Ltd. discussion R2-2305858

[R2-2308494](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308494.zip) Remaining aspects for NES Cell selection/reselection Ericsson discussion

[R2-2308533](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308533.zip) Cell Selection and Re-Selection for NES Fraunhofer IIS, Fraunhofer HHI discussion Rel-18

R2-2308681 Access restriction LG Electronics discussion Rel-18 Netw\_Energy\_NR-Core Late

[R2-2308729](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308729.zip) Consideration on Cell Selection/Re-selection on NES cells CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2308739](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308739.zip) Discussion on cell selection/re-selection vivo discussion Rel-18

[R2-2308784](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308784.zip) Access restrition for NES LG Electronics Inc. discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308831](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308831.zip) Discussion on Cell selection NTT DOCOMO INC. discussion Rel-18 Netw\_Energy\_NR-Core

### 7.3.5 Connected mode mobility

Contributions on CHO procedure enhancement(s) in case source/target cell is in NES mode

[R2-2307151](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307151.zip) Discussion on UE mobility due to NES cell Xiaomi discussion Rel-18

[R2-2307179](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307179.zip) CHO Procedure in NES Mode Lenovo discussion Netw\_Energy\_NR-Core

[R2-2307221](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307221.zip) Discussion on Connected mode mobility for NES Samsung Electronics GmbH discussion Rel-18

[R2-2307456](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307456.zip) Discussion on CHO for NES Ericsson discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307475](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307475.zip) Discussion on the CHO Enhancements for NES Google Inc. discussion Rel-18

[R2-2307645](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307645.zip) Discussion on CHO enhancement NEC discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307649](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307649.zip) NES Connected mode mobility Qualcomm Incorporated discussion Rel-18

[R2-2307766](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307766.zip) CHO on NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2307811](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307811.zip) Further Discussion on CHO enhancement in NES Apple discussion Netw\_Energy\_NR-Core

[R2-2307917](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307917.zip) Discussion on CHO enhancements for NES Sharp discussion

[R2-2308031](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308031.zip) Discussion on CHO enhancement for NES Huawei, Turkcell, HiSilicon discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308175](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308175.zip) Handover enhancement for NES Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2308182](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308182.zip) Discussion on connected mode mobility OPPO discussion Rel-18 Netw\_Energy\_NR

[R2-2308198](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308198.zip) CHO enhancement for NES cell Quectel discussion

[R2-2308282](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308282.zip) The remaining issues on connected mode mobility ZTE corporation, Sanechips discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308302](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308302.zip) Discussion on connected mode mobility CMCC discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308390](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308390.zip) CHO for NES InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308608](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308608.zip) Discussion on Connected mode mobility for network energy savings Fujitsu discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308697](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308697.zip) CHO enhancement for different NES use cases LG Electronics Inc. discussion Rel-18

[R2-2308730](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308730.zip) CHO procedure enhancements CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2308740](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308740.zip) Conditional handover enhancement for network energy saving vivo discussion Rel-18

### 7.3.6 Others

This will be downprioritized

[R2-2307458](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307458.zip) MAC CE for activating/deactivating SP CSI report configurations for NES Ericsson discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2307650](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307650.zip) Restricting Paging to limited area Qualcomm Incorporated discussion Rel-18

[R2-2308045](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308045.zip) Discussion on RAN1 and RAN3 led NES techniques Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2308154](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308154.zip) Skip monitoring of CSI-RS during non-active periods Sony discussion Rel-18 FS\_Netw\_Energy\_NR

## 7.4 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID: RP-223520)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs .

### 7.4.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, running CRs update).

Please follow WI Rapporteur plan for providing Running CRs. At current meeting all Running CR will be expected to be started. Running CR rporteurs are encouraged to actively drive CR progress (can e.g. suggest to chair how to treat).

LS in

LTM

[R2-2307020](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307020.zip) LS on beam application time, contents of cell switch command, TCI state activation and UE based TA measurement for LTM (R1-2304276; contact: Fujitsu, MediaTek, CATT) RAN1 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2, RAN3, RAN4

* Noted

[R2-2307388](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307388.zip) Discussion on replying to the RAN1 LS on beam application time for LTM Fujitsu, CATT, MediaTek discussion Rel-18 NR\_Mob\_enh2-Core

* Noted

[R2-2307389](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307389.zip) [Draft] Reply LS on beam application time for LTM Fujitsu, CATT, MediaTek LS out Rel-18 NR\_Mob\_enh2-Core To:RAN1, RAN4 Cc:RAN3

- Ericsson think it is ok to not reply, but think if we reply we can just say that we expect R4 to specify what need to be specified, if anything. Nokia agrees, and think we can just let R4 reply.

- vivo think beam application time might not need to be specified.

- ZTE think we don’t need to reply.

- CATT think R1 asked R2 a question so we should reply.

* RAN2 understand that there is no impact on RAN2 TS wrt beam application time, and RAN2 understands further that a requirement, if needed, would be specified by RAN4.
* Revised

R2-2309224

* Remove “without RAN2 involvement” in two places
* With this change the LS out is approved in R2-2309250

Selective SCG activation

[R2-2307070](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307070.zip) LS on Security Solution for Selective SCG (S3-233200; contact: Nokia) SA3 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

- Nokia point out that R3 is impacted but not included.

CRs

General

[R2-2308145](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308145.zip) 38.300 running CR for introduction of NR further mobility enhancements MediaTek Inc. draftCR Rel-17 38.300 17.5.0 B NR\_Mob\_enh2-Core

- MTK tool some comments into account, based on endorsed version

- Ericsson think early synch should be captured at this meeting.

* Will add early synch to Stage-2 at this meeting

[R2-2307372](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307372.zip) 37.340 running CR for introduction of NR further mobility enhancements ZTE Corporation, Sanechips draftCR Rel-18 37.340 17.5.0 B NR\_Mob\_enh2-Core

- ZTE explains that this is the last endorsed CR.

[R2-2307961](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307961.zip) 38.321 running CR for introduction of NR further mobility enhancements Huawei, HiSilicon draftCR Rel-18 38.321 17.5.0 NR\_Mob\_enh2-Core

- HW: this is the endorsed CR, open issues were somewhat updated.

LTM specific

[R2-2308435](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308435.zip) RRC running CR for LTM Ericsson draftCR Rel-18 38.331 17.5.0 B NR\_Mob\_enh2-Core

[R2-2308436](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308436.zip) RRC open issues list for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

Selective SCG activation

[R2-2308040](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308040.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308040.zip) RRC running CR for subsequent CPAC in NR-DC OPPO draftCR Rel-18 38.331 17.5.0 B NR\_Mob\_enh2-Core

* Endorsed (as baseline for further change)

CHO w candidate SCG

[R2-2307207](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307207.zip) RRC Running CR for CHO with candidate SCGs CATT draftCR Rel-17 38.331 17.5.0 B NR\_Mob\_enh2-Core

* Endorsed (as baseline for further change)

### 7.4.2 L1L2 Triggered Mobility

For this meeting there will be focus on working with stage-3 Aspects (improving the CRs, making decisions needed to progress the CRs, and there will be focus on inter-WG-issues.

#### 7.4.2.1 General and Stage-2

Including further preformance enhancements, and potential elaboration on the components of the latency time line, if needed. Including impacts to and expectations of other groups. Including security.

RAN2 aspects of RACH-less LTM and early acquisition of TA.

General

[R2-2308438](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308438.zip) Signalling approaches for LTM cell switch execution Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

- Ericsson think we can simplify this and reply to R3 that approach 1 is the baseline and R2 understands that approach 2 can be supported by network impl, if desired (without TS impact). HW are ok with this but worried about the wording.

- Apple think there is overlap between approach 1 and approach 2

* Attempt to send a simple reply LS based on discussion here

R2-2309248

- Editorial to be fixed: approached -> approaches in 1 place

* LS out is approved in R2-2309251

[R2-2307222](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307222.zip) On scenarios for LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P3 / P1

- MTK think this is aligned with TSG RAN prioritization. Think we need to be careful about the details. Think we could keep SCG configuration (P1), but release is an option

- QC think we should not do P3, FR2 is currently only SN, and it would be good to keep this applicable.

- Xiaomi think that SCG LTM could be supported if it is without MN involvement.

- Nokia think that if we make the use of DC forbidden in configuration we make LTM unattractive. We could non-support SCG execution of LTM …

- vivo think we should keep SCG when MCG LTM is done.

- FW think switching of SCG is important.

Chair: 1st attempt is this the direction?

- 1) The case of PCell change (MCG) by LTM, keeping SCG as configured (but with no new LTM procedures for SCG), is prioritized

- 2) The case of SCG LTM, while keeping MCG, is lower priority

- HW think the first case may be difficult from network view.

- Ericsson think that the first case is more complex than the second case. Intel agrees and also agree that the second case is easier if we consider MCG-non-involved. OPPO also agrees, and think MCG LTM with SCG config should not be supported.

- Lenovo think we can restrict, mobility can be handled anyway.

- ZTE think 1 involves a lot of R3 inter-node coordination.

- LGE think for 1, SCG release should be supported, and also the SCG-kept-case.

Chair: 2nd attempt Direction:

- 1b) The case of PCell change (MCG) by LTM, without SCG, is supported (If there is an SCG configuration it is released at LTM execution).

- 2b) The case of SCG LTM, without MN involvement is supported

- as a working assumption (can be revisited e.g. at the last meeting), it is assumed that other cases are not supported.

- vivo think 1 main lust impacted R3 and could be supported.

- CATT think 2b can be low priority and we can do only the MCG part. Apple agrees,

- HW agrees with CATT and Apple but think we can do the 2nd attempt with prioritization for the next two meetings.

- Chair: after long discussions it seems attempt 2 is largely agreeable.

* 1b) The case of PCell change (MCG) by LTM, without SCG, is supported (If there is an SCG configuration it is released at LTM execution).
* 2b) The case of SCG LTM, without MN involvement is supported
* as a working assumption (can be revisited e.g. at the last meeting), it is assumed that other MCG/SCG cases are not supported.

[R2-2307611](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307611.zip) Supported scenarios and stage 2 latency description Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307987](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307987.zip) Delayed Resource Reservation for inter gNB-DU LTM Rakuten Symphony discussion Rel-18

[R2-2308319](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308319.zip) Discussions on LTM open issues CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308572](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308572.zip) RRC\_INACTIVE and LTM Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307985](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307985.zip) Miscellaneous issues of L1/L2 Triggered Mobility Rakuten Symphony discussion Rel-18

[R2-2307988](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307988.zip) Prioritizing of LTM candidate cells Rakuten Symphony discussion

[R2-2308036](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308036.zip) Security impacts of intra gNB, inter gNB-CU-UP relocation Rakuten Symphony discussion Rel-18

Early timing advance and RACH-less

* CB Friday Offline 016, progress Early TA and RACH-less (ZTE)

[R2-2307612](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307612.zip) RACH-less LTM and early TA acquisition Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

Handling of configured grant

**Proposal 1: Define the association between CG occasion and beam in RRC and specify that the UE uses a CG occasion associated with the indicated beam in MAC.**

**Proposal 2: The UE releases by itself the CG resources for RACH-less LTM, after LTM completion.**

Selection of configured or dynamic grant

**Proposal 3a: During RACH-less LTM, the UE shall use the first available grant, which is either a configured grant or a dynamic grant.**

**Proposal 3b: For RACH-less LTM, RAN2 assume the source DU always informs target DU about the selected beam, to give the target DU the possibility to use a dynamic grant even if CG is configured.**

UE behaviour at execution

**Proposal 4: Before RACH-less LTM procedure completion, the UE shall not trigger RACH (when the UE has no valid PUCCH resource for triggered SRs), as in LTE RACH-less.**

**Proposal 5: If RACH-less LTM execution is not successful:**

**- the UE performs cell selection**

**- if the selected cell is an LTM candidate, the UE initiates RACH-based LTM to this candidate.**

**- if the selected cell is not an LTM candidate, the UE performs RRC-reestablishment**

**No other optimization is considered (e.g. no fallback from RACH-less to RACH-based for the same cell).**

P1?, 2, 3a, 3b, 4, 5

- ZTE think P1 need to be verified by R1. ZTE think P5 is agreeable if we remove the last line,

- MTK think P1 is reasonable but need to check. For P2 wonder about subsequent LTM.

- FW support 1 and 2, not sure 3a is needed.

- OPPO agree with the intention of P2, but think we need to clarify (whether release in MAC or RRC).

- CATT think that with 3a, CG should be used.

- HW clarifies that the release in P2 is just a MAC release, the resource is kept at RRC level.

- Ericsson agrees that CG should be usable for subsequent LTM for P1 we get the RRC parameters from R1 and can check with R1.

- LGE think that for type2 CG we can deactive but the details need to be considered.

P5

- Nokia wonder if we would not fallback to RACH based on the same cell.

- NEC think fast recovery could apply.

- Ericsson think that if this fails, the UL may be weak.

- ZTE think it would be good to avoid RRC reest

- Lenovo think that if the beam signal strength has changed

- Chair: discussion took long time (too many comments), could attempt to converge offline.

* Define the association between CG occasion and beam in RRC and specify that the UE uses a CG occasion associated with the indicated beam in MAC
* Observation: In cases for which it is desired that CG used for LTM is not used further once the UE has made the cell its new serving cell, it is assumed that the network could release Type1 CG resource on LTM completion (existing functionality)
* Before RACH-less LTM procedure completion, the UE shall not trigger RACH (when the UE has no valid PUCCH resource for triggered SRs), as in LTE RACH-less.

[R2-2308614](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308614.zip) LTM procedures Qualcomm Incorporated discussion

P8

- HW think UE can use DG and/or CG. Think that the first data by CG may not use the CRNTI.

- OPPO think that if this is the way then the network need to send PDCCH to the UE in any case, after receiving the RRC complete message. CATT agrees, and think some special payload in PDCCH is needed.

- Nokia think maybe nothing is to be transmitted in PDSCH in the DL.

- Huawei think the network must somehow confirm the UL transmission of the UE in order to declare success. Ericsson agrees. QC think that this should be for a new transmission.

- Lenovo think we need to specify the payload, otherwise there are ambiguities.

* RAN2 assumes For RACH-less LTM, the UE determines successful reception of its first UL data based on receiving a PDCCH addressing the UE’s C-RNTI in the target cell scheduling a new transmission after the first UL data, (FFS if specified contents should be transmitted with this transmission, e.g. as LTE MAC CE).

[R2-2308840](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308840.zip) Further Considerations on RACH procedure for early TA acquisiton ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308888](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308888.zip) Further details on TA acquisition and maintenance in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307139](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307139.zip) RACH less LTM cell switch NEC discussion NR\_Mob\_enh2-Core

[R2-2307168](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307168.zip) Open issues for Early Timing Advance Management for LTM Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307181](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307181.zip) Initial Early TA acquisition Lenovo discussion NR\_Mob\_enh2-Core

[R2-2307208](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307208.zip) Remaining Issues on RACH-less LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307290](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307290.zip) Discussion on Early TA acquisition and LTM procedure vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307379](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307379.zip) On UE based TA measurement and RACH-less LTM Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307396](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307396.zip) RAN2 aspects of RACH-based early TA acquisition Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307670](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307670.zip) Remaining issues of RACH-less LTM and early TA Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307863](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307863.zip) RSTD based early TA acquisition Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307888](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307888.zip) Discussion the remaining issues for LTM early TA acquisition ITRI discussion NR\_Mob\_enh2-Core

[R2-2308003](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308003.zip) Re-acquisition and forwarding of early TA Lenovo discussion Rel-18

[R2-2308149](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308149.zip) RACH-Less LTM and Early TA Acquisition MediaTek Inc. discussion

[R2-2308172](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308172.zip) RACH-less solution and TA indication for LTM Sony discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308037](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308037.zip) Discussion on early sync and RACH-less for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308213](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308213.zip) Discussion on open issues of RACH-less LTM cell switch Transsion Holdings discussion Rel-18

[R2-2308439](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308439.zip) Stage-2 proposal on early sync for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

L1 measurements

[R2-2307137](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307137.zip) L1 Measurement to support LTM NEC discussion NR\_Mob\_enh2-Core

[R2-2308918](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308918.zip) Discussions on LTM related measurements CMCC discussion Rel-18 NR\_Mob\_enh2-Core

Failure Handling Optimizations

[R2-2307138](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307138.zip) Failure handling for L1/L2 triggered mobility NEC discussion NR\_Mob\_enh2-Core

[R2-2307667](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307667.zip) LTM failure recovery LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307781](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307781.zip) Discussion on LTM failure handling DOCOMO Beijing Labs discussion Rel-18

[R2-2308096](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308096.zip) Fast cell recovery operations for LTM failures PANASONIC discussion Rel-18

[R2-2308318](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308318.zip) Considerations on failure handling CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308573](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308573.zip) LTM execution upon RLF and HOF Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

Withdrawn

[R2-2307445](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307445.zip) Discussion on LTM failure handling DOCOMO Beijing Labs discussion Rel-18 Withdrawn

#### 7.4.2.2 RRC

RRC solutions, e.g. candidate configuration / reference configuration, Measurement Configuration (and other configs used before cell switch). RRC configured L2 reset.

WID: Configuration and maintenance for multiple candidate cells to allow fast application of configurations for candidate cells [RAN2, RAN3].

Including [Post122][055][Mob18] 38.331 Running CR and Open issues (Ericsson).

[R2-2308434](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308434.zip) [Post122][055][Mob18] Discussion on RRC open issues list for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

Proposal 1 Any cross-feature interaction with LTM will be considered at the end of Rel-18.

Proposal 2 SCell(s) can be added/modified/released within an LTM candidate cell configuration.

Proposal 3 In case of a reconfiguration failure on one or more LTM related configurations, legacy UE behaviour applies.

Proposal 4 The legacy full configuration procedure (including the fullConfig flag) is not re-used for LTM.

Proposal 5 The UE keeps the RadioBearerConfig upon an LTM cell switch while all others dedicated configurations, such as, measConfig are released.

Proposal 6 ServingCellConfigCommon shall be part of the complete LTM candidate cell configuration that the UE applies when performing an LTM cell switch procedure.

Proposal 7 A new RRC timer is tentatively used to supervision the LTM cell switch procedure.

Proposal 8 RAN2 confirm that an LTM cell switch procedure should not be triggered while an MCG failure recovery procedure is ongoing.

Proposal 9 The reconfiguration with sync procedure is tentatively not re-used for LTM but the final decision on this is left to RRC running CR implementation.

Proposal 10 The sending of RRCReconfigurationComplete message for LTM is tentatively done in section 5.3.5.3 but the final decision on this is left to RRC running CR implementation.

Proposal 11 Network does not explicitly indicate a subsequent LTM cell switch to the UE.

Proposal 12 The LTM-Config IE is per-cell group and can contain either the LTM MCG configuration or the LTM SCG configuration.

Proposal 13 The LTM-Config IE for an SCG can be received by the UE either via an SCG RRCReconfiguration via SRB3 or embedded via an MCG RRCReconfiguration via SRB1 (i.e., contained in nr-SCG within MRDC-SecondaryCellGroupConfig).

P5

- HW wonder about P5. Nokia also wonders

- Ericsson think this need to be discussed.

P7

- Nokia think we can reuse t304. Ericsson think t304 cannot be extended, and think there is a risk to impact other existing mobility procedures, typically it would set shorter for LTM

P11

- Subsequent LTM switch is same as any LTM switch, no special handling. Vivo agrees with this

- CATT think one-shot LTM is different to subsequent LTM.

P12/P13

- Apple can agree that LTM config is per CG

- Ericsson think we should just postpone these.

* P11: From TS point of view, R2 assumes that first and subsequent LTM can be covered by same TS contents (if exceptions are neede, can be discussed case by case)
* P5 P7 discussion offline
* P12 P13 don’t agree now
* Rest of proposal are agreed
* CB Friday 015 RRC centric offline (Ericsson), need to converge on the outcomes of email discussion: proposals TS open issues, can also discuss other low hanging fruits

R2-2309249

Proposal 3 Legacy T304 timer is used to supervision the LTM cell switch procedure. FFS whether new values for timer T304 are needed.

Proposal 4 Upon an LTM cell switch failure (i.e., supervision timer expiry) or RLF, fast recovery similar to CHO:

a) UE performs cell selection.

b) If selected cell is an LTM candidate cell, UE performs RACH-based LTM cell switch on the selected cell (network-controlled).

c) If selected cell is not an LTM candidate cell, UE transmits RRC re-establishment request.

Proposal 5 UE shall release all LTM-related configurations upon going to RRC\_IDLE.

Proposal 6 Upon RRC re-establishment, the UE handles the LTM related configuration similar to the CHO configurations.

Proposal 7 For the handling of LTM-related configurations in RRC\_INACTIVE the UE applies the same principles as CHO ( = conditions/triggers to release configurations).

Proposal 8 A UE capability to indicate the support of the reference configuration is introduced.

DISCUSSION

P1

- Not clear what what P1 measn in terms of RRC IEs.

- vivo think this is related to the reference configuration.

- HW explains that there are no consequences Wrt L2 handling.

P2

- LG not convinced that this is needed.

- FW wonder if there will be problems switching back. Ericsson think this is not a problem, as radio bearer configurations can be added as well ..

P7

- Nokia wonder what is meant. HW think it means that the time/condition for configurations to be released can be the same ..

P8

- Nokia wonder if subsequent LTM is a separate capability. Vivo think not.

- HW think it just means that the network has to provide complete candidate configs.

* Upon an LTM cell switch, the UE releases the radio bearer related configuration. Is up to network to provide the radio bearer configuration either within the reference configuration or within the LTM candidate cell configuration.
* Upon an LTM cell switch, the UE shall release the radio bearer that are part of the current UE configuration but not part of the target LTM candidate cell configuration.
* Legacy T304 timer is used to supervision the LTM cell switch procedure. FFS whether new values for timer T304 are needed.
* Upon an LTM cell switch failure (i.e., supervision timer expiry) or RLF, fast recovery similar to CHO:

a) UE performs cell selection.

b) If selected cell is an LTM candidate cell, UE performs RACH-based LTM cell switch on the selected cell (network-controlled).

c) If selected cell is not an LTM candidate cell, UE transmits RRC re-establishment request.

* UE shall release all LTM-related configurations upon going to RRC\_IDLE.
* Upon RRC re-establishment, the UE handles the LTM related configuration similar to the CHO configurations.
* For the handling of LTM-related configurations in RRC\_INACTIVE the UE applies the same principles as CHO ( = conditions/triggers to release configurations).
* A UE capability to indicate the support of the reference configuration is introduced. If reference configuration is not supported then complete candidate configurations has to be used.

[R2-2307291](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307291.zip) RRC configuration for LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307382](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307382.zip) Open Issues for LTM RRC MediaTek Inc. discussion Rel-18 NR\_Mob\_enh2

[R2-2307610](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307610.zip) RRC aspects for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308437](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308437.zip) Discussion of remaining RRC open issues for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308615](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308615.zip) RRC aspects of LTM Qualcomm Incorporated discussion

[R2-2307223](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307223.zip) Discussion on RRC aspects for LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307373](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307373.zip) Remaining issues on LTM RRC ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307380](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307380.zip) Configuration for sequential measurement and UE based RACH-less LTM Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307390](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307390.zip) Failure detection and fast recovery Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307576](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307576.zip) On Validity Check for LTM Configuration Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307577](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307577.zip) On Reference, Delta, Subsequent LTM and L3 Mobility Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307642](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307642.zip) Further discussion on cell switch NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307643](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307643.zip) Discussion on RAN3 related issues NEC discussion Rel-18 NR\_Mob\_enh2-Core R2-2305648

[R2-2307668](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307668.zip) Discussion on LTM RRC configuration LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307669](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307669.zip) Remaining issues of RRC configured Layer-2 reset Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307714](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307714.zip) Remaining issues for RRC Aspects of LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307883](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307883.zip) Enhancing the L2 reset signalling in LTM Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307886](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307886.zip) LTM cell switch link failure handling Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308004](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308004.zip) RRC issues for LTM Lenovo discussion Rel-18

[R2-2308038](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308038.zip) Discussion on RRC open issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308123](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308123.zip) Discussion on the remaining RRC aspects for LTM Spreadtrum Communications discussion Rel-18

[R2-2308214](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308214.zip) Discussion on remaining issues of measurement for LTM Transsion Holdings discussion Rel-18

[R2-2308440](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308440.zip) Handling of SCells and SCG during LTM cell switch Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308441](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308441.zip) LTM handling for fast recovery and RRC Re-establishment Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308574](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308574.zip) RRC Measurements when LTM is Configured Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308575](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308575.zip) RLC and PDCP reset Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308613](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308613.zip) Conflict between LTM triggering and legacy RRC messaging Qualcomm Incorporated discussion

[R2-2308685](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308685.zip) Remaining Issues and Security concern alleviation of Cell Switch command LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308813](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308813.zip) Discussion on L1 measurement RS configuration Google Inc. discussion NR\_Mob\_enh2-Core

[R2-2308818](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308818.zip) Discu-ssion on RRC aspects for L1/L2-Triggered Mobility Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308829](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308829.zip) Discussion on LTM reference configuration Google Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308866](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308866.zip) Discussion on RRC aspects of LTM Samsung discussion

Withdrawn

R2-2307397 RRC aspects of L1/L2 triggered mobility Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core Withdrawn

#### 7.4.2.3 L2 centric parts

Including remaning issues and solutions focused on dynamic cell switch not addressed by the RRC subclause above.

WID: Dynamic switch mechanism from serving cell to candidate cell (including SpCell and SCell) for the potential applicable scenarios based on L1/L2 signalling [RAN2, RAN1]

Including [Post122][058][Mob18] Contents of Cell Switch MAC CE (Huawei)

[R2-2307962](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307962.zip) Summary of [Post122][058][Mob18] Contents of Cell Switch MAC CE Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

BWP

- CATT think it should just be pre-configured

- Ericsson think BWP could change depending on UE traffic.

- ZTE think that providing BWP ID in the MAC CE may lead to pre-allocation too many CG resource.

- Samsung think it is good to have the flexibility to indicate BWP in the MAC CE.

- Nokia think this is not useful, Network can switch the BWP quickly after cell switch.

* BWP ID is not in the LTM cell switch MAC CE, but only based on the RRC configuration.
* Inform R1 by LS

* CB 032 (Huawei)
* Scell activation state is not in the LTM cell switch MAC CE, but only based on the RRC configuration

Proposal 4: [14/21] Not to introduce CFRA resource related information field in LTM cell switch MAC CE.

- Apple don’t agree, think we shall support CFRA by MAC CE. Ericsson agrees. Nokia agrees, NEC think it need to be simple. CATT think this is beneficial. Samsung also think this is helpful. HW support this.

- Mediatek wonder what info to use. Apple replies: an index. MTK think it is important that this doesn’t bring extra delay.

- Ericsson think R3 is designing similar procedures.

- Samsung think TCi state could implicitly indicate CFRA resource.

* Will have CFRA resource related information field in LTM cell switch MAC CE (unless serious issues are found).
* Not introduce UL grant related information field in LTM cell switch MAC CE.
* Not introduce C-RNTI information field in LTM cell switch MAC CE.

TIMER

- Lenovo think the supervision timer must be configured by the target cell if it is t304 and think there are a number of small issues to address in the conditions of this timer.

* Not introduce LTM supervisor timer value field in LTM cell switch MAC CE.
* The size of “Target Configuration ID” field in the LTM Command MAC CE is 3-bits, and the maximum number of LTM candidate cells in RRC configuration is 8.

[R2-2307963](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307963.zip) Leftovers related LTM MAC CE and cell switch Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P3:

- Apple think this can be left to UE impl. LG think UEs handle this anyway. OPPO support the intention but think it can be left for UE impl

- Chair: not much support

P4

- LG think anyway a BSR will be triggered, e.g. due to new data for SRB.

- ZTE think we can rely on periodic BSR.

- Nokia think this is legacy BSR.

* No need to specify processing order
* A BSR should be triggered in the target cell right after cell switch (as for legacy handover). It is assumed that no spec impact is needed.

- Sony think LTM switch MAC CE may need to indicate the choice of TA, UE-based/provided etc. FW also support this.

- FW think same TA is indicated in the MAC CE

- Lenovo think the UE starts the TAT when TA is received. It seems this is already captured.

* The UE will do RACH-less when:

- TA value is provided in the cell switch MAC CE (already agreed, TA=0 is assumed to be covered by this)

- When the UE shall apply the same TA value as the source (already agreed) FFS how the UE knows this.

[R2-2307169](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307169.zip) TAT and TCI state handling upon cell switching Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307180](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307180.zip) Cell Switch details Lenovo discussion NR\_Mob\_enh2-Core

[R2-2307209](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307209.zip) Discussion on L2 Centric Parts CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307289](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307289.zip) Remaining issues on dynamic cell switch vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307381](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307381.zip) Support UE based RACH-less LTM at lower layer Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307398](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307398.zip) LTM cell switch execution and completion Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307671](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307671.zip) Clarification on the TCI state indicated in the LTM MAC CE Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307687](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307687.zip) Discussions on remaining issues for RACH-less LTM KDDI Corporation discussion

[R2-2307697](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307697.zip) Beam handling and security issue on cell switch for LTM Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307884](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307884.zip) CFRA and CG configuration aspects in LTM Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307887](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307887.zip) TCI state operations for LTM Panasonic discussion

[R2-2307986](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307986.zip) TA Acquisition before LTM Serving cell change Rakuten Symphony discussion Rel-18

[R2-2308039](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308039.zip) Discussion on CG based first UL transmmission for RACH-less LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308147](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308147.zip) Remaining issues for The Contents of LTM MAC CE Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308215](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308215.zip) Discussion on open issues for LTM Transsion Holdings discussion Rel-18

[R2-2308320](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308320.zip) Considerations on cell switch CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308612](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308612.zip) Approaches for inter-DU LTM cell switch Qualcomm Incorporated discussion

[R2-2308716](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308716.zip) Discussion on fallback RACH for L1L2-triggered mobility ASUSTeK discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308745](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308745.zip) Discussion on BWP operation by PDCCH-order based RACH for a candidate cell LG Electronics Inc. discussion NR\_Mob\_enh2-Core

[R2-2308841](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308841.zip) Further Discussion on RACH-less LTM execution ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308887](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308887.zip) On the cell switch in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

### 7.4.3 NR-DC with selective activation cell of groups

Continue discussion from previous meeting. Security aspects as indicated by SA3 are postponed until SA3 has made further progress.

Including [Post122][056][Mob18] 38.331 Running CR for selective activation of SCGs for NR-DC (OPPO)

[R2-2308041](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308041.zip) Discussion on execution condition for subsequent CPAC OPPO discussion Rel-18 NR\_Mob\_enh2-Core

- ZTE think that for SN-initiated case, SN generates execution conditions, think that it is good to have a unified solution. QC agrees, think Cand SN should generate conditions for subsequent CPAC. Ericsson also support this, the initial one could be CPA. Think we can support both Sn-initiated and MN-initiated.

- NEC agrees with P1, think MN should have control.

- LG also support P1. CATT as well.

- Xiaomi think we don’t need a unified solution.

- NEC think MN initiated was initially for inter-freq, and SN-initiated intra-freq.

- vivo think we can just decide.

Chair proposes to agree to support: for subsequent CPAC it shall be possible to use A3 A5

- LG think then the configuration becomes complex

- Chair: there seems to be confusion what is MN initiated. Maybe MN-triggered SN-initiated might be useful?

* For subsequent CPAC it is useful to support use of A3 A5
* A3 A5 is supported with SN-initiated subsequent CPAC
* Offline 028 Resolve confusion what is MN-initiated in these cases, can also confirm what is SN-initiated (OPPO)

[R2-2308042](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308042.zip) Open issues for subsequent CPAC in NR-DC OPPO discussion Rel-18 NR\_Mob\_enh2-Core

Tdoc is Partially treated: Only P2, P3, P4

- QC are ok w P2. P4.

- P3: Wonder why keep the CPAC configuration at SCG release. OPPO clarifies that we have agrees to support subsequent CPA as well.

- P3: ZTE think that when UE is RRC-release’d then the cond config should be release,

- ZTE think there is no need to have a specific release. The config can be released anyway.

* UE autonomously releases the subsequent CPAC configurations in the following cases: upon RRC re-establishment and RRC release (to RRC\_IDLE and/or RRC\_INACTIVE)
* No need for an optimized single-indication-release of CPAC configuration. Can rely on explicit release for other cases.

[R2-2307971](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307971.zip) Subsequent CPAC Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307613](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307613.zip) Subsequent CPAC Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

SCG release

[R2-2307374](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307374.zip) Remaining issues on subsequent CPAC ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307375](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307375.zip) Preparation procedure for subsequent CPAC ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307210](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307210.zip) Discussion on Selective Activation of Cell Groups in NR-DC CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307786](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307786.zip) SCG Selective Activation in NR-DC Qualcomm Incorporated discussion Rel-18

[R2-2307864](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307864.zip) Discussion on Subsequent CPAC Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307293](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307293.zip) Remaining issues for NR-DC with selective activation cell of groups vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308756](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308756.zip) Discussion on subsequent CPAC MediaTek Inc. discussion NR\_Mob\_enh2-Core R2-2306309

[R2-2308287](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308287.zip) Discussion on NR-DC with selective activation of cell groups CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307407](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307407.zip) Discussion on NR-DC with subsequent CPAC. DENSO CORPORATION discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307644](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307644.zip) Further details on subsequent CPAC NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307683](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307683.zip) Discussion on subsequent CPAC NTT DOCOMO, INC. discussion Rel-18

[R2-2307698](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307698.zip) Considerations on Subsequent CPAC after SCG Change Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307715](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307715.zip) Discussion on NR-DC with selective activation cell of groups KDDI Corporation discussion

[R2-2308002](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308002.zip) Left issues on subsequent CPAC Lenovo discussion Rel-18

[R2-2308121](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308121.zip) Discussion on issues of subsequent CPAC Spreadtrum Communications discussion Rel-18

[R2-2308148](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308148.zip) Remaining issues for Subsequent CPAC Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308216](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308216.zip) Discussion on Selective Activation of Cell Groups in NR-DC Transsion Holdings discussion Rel-18

[R2-2308408](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308408.zip) Subsequent change of SCGs and selective activation Interdigital Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308785](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308785.zip) Subsequent CPC in NR LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308819](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308819.zip) Discussion on subsequent CPAC Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307889](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307889.zip) Discussion on the evaluation adjustment for SCPAC ITRI discussion NR\_Mob\_enh2-Core

[R2-2307890](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307890.zip) Discussion on SCG failure handling with subsequent CPAC ITRI discussion NR\_Mob\_enh2-Core

Security

[R2-2307771](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307771.zip) Further analysis on S-CPAC signalling procedures, Configurations and security issues Nokia, Nokia Shanghai Bell discussion

DISCUSSION Only on the security parts

- Nokia think we need to differentiate inter-SN and intra-SN, covered in 7A. Think that for Pcell change P10 we may need to involve SA3 (or disallow master key change).

- Ericsson support the Nokia proposal

- vivo think the UE doesn’t need to know, can apply same behaviour for all cell changes, i.e. change key for every cell change. OPPO think SA3 solution says key change only at SN change.

- LG support Nokia.

- Apple agree with the intention of Nokias proposal, i.e. that the UE is informed about inter-SN/intra-SN. Think the UE need to tell which sk-counter is used, and MN should be in charge. OPPO agrees on this.

- QC agrees that the UE need to tell the network (the MN) which Sk counter is used. Ericsson think this causes some complexity. Nokia also think explicit signalling of Sk counter is not needed.

- CATT think the UE can use the next value, no need to synchronize.

P10

- Oppo think the whole config will be released on inter-MN Pcell change. ZTE agrees. NEC agrees, and also agrees with Nokia solution 7A

* Will support the SA3 solution, i.e. update of Sk-counter at inter-SN-mobility, based on pre-configured multiple Sk-counter. UE need to know when Sk counter need to change.
* Detailed solution discussed in long Post-meeting email discussion
* CB Offline 029 Reply LS (Nokia)

[R2-2307885](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307885.zip) RAN2 impacts from SA3 security key reuse solutions Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307292](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307292.zip) Discussion on security aspects for selective SCG based on SA3 reply LS vivo discussion Rel-18 NR\_Mob\_enh2-Core

Withdrawn

R2-2308563 Subsequent change of SCGs and selective activation Interdigital Inc. discussion Rel-18 NR\_Mob\_enh2-Core Withdrawn

### 7.4.4 CHO including target MCG and candidate SCGs for CPC CPA in NR-DC

Including [Post122][057][Mob18] 38.331 Running CR for CHO including target MCG and candidate SCGs (CATT)

[R2-2307211](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307211.zip) Report of [Post122][057][Mob18] 38.331 Running CR for CHO with candidate SCGs CATT discussion Rel-18 NR\_Mob\_enh2-Core

Part 1 DISCUSSION

P8

- A couple of companies wonder about the reasons

P9

- Xiaomi think this is only applicable for CHO with MN initiated CPC

- CATT indicate that CHO with SN initiated CPC was not discussed.

- MTK think that for this case there is only MN-initiated. A cpl of companies agree. Ericsson think this is FFS. HW think we should agree that SN-initiated doesn’t apply. Ericsson think think SN should decide about part of the configuration and today that is called SN-initiated.

- Samsung wonder if we should have LS to R3.

* UE does not remove the configuration for CHO including target MCG and candidate SCG configuration automatically when SCG is to be released.
* R2 assumes Source MN initiates the preparation of the R18 CHO with candidate SCG(s), e.g., S-MN tells the T-MN whether it is allowed to configure candidate SCG(s). FFS the signalling details.
* candidate MN recommends the candidate PSCells to candidate SN (for CHO with MN-initiated CPC).

Part 2 DISCUSSION

P3

- Oppo think this conflicts with previous agreement. MTK has same concerns, and think we don’t need to optimize. HW agrees,

- LG support this, and think the structure of the current CR allows this. ZTE think this involves no change. CATT think this can be configurable and usable in

- Ericsson think that either way, there is TS impact. Think it is risky that UE applies a configuration blindly.

- Chair: not enough support (and not essential). Not possible to agree now.

- Samsung think this anyway need to be resolved.

- IDT think for CPA it is very straightforward,

P4

- Ericsson think this is not as legacy. Ericsson wonder about what is the benefit.

- LG think last part is not necessary

P11

- HW think we should stop evaluating. ZTE think in R17 UE can continue.

- QC wonder why we would need to continue.

- Chair think we can make assumption

- Lenovo think that if the UE doesn’t need to continue then the UE could just release the Config

* CHO recovery details to handle the additions brought by this feature is FFS
* R2 assumes for this R18 feature that the UE does not need to continue conditional reconfiguration evaluation for CHO with Candidate SCG(s) upon initiating SCG failure information procedure
* Recommendation of the candidate PSCells can be based on measurement results.
* R2 assumes for this R18 feature that the evaluation of the execution conditions for CHO with Candidate SCG(s) do not need to continue once PSCell change is triggered.

Part 3 DISCUSSION

P1

- Ericsson think a UE based solution is much simpler from R3 point of view, i.e. prefer Option 1. Samsung agrees, and we don’t need to have R3 impact. Nokia agrees with O1.

- HW + 4 think O1 is unknown.

- Chair: Need to describe O1 in order to decide

P5

- Samsung think we need to understand how the value is used. Ericsson agrees.

- QC think this is the total number of conditional configurations that the UE can store.

- LG prefer O1

- MTK think this is just a memory limitation.

P7

- FW think we should keep current CondA4. HW doesn’t support A3 A5, and it must b e possible to trigger PSCell change with acceptable cond, rather than optimized ..

- Xiaomi prefer to support A3 A5

- Ericsson think that it need to be possible to measure current cell, not possible to day with A4. Nokia has some sympathy.

* P1 postponed
* maxNrofCondCells = max number of conditional configurations that the UE can store (is assumed to be a memory limitation), value FFS

P7 Tentative: No Need to support condEventA3 or condEventA5 for the execution conditions for candidate PSCells.

* Offline 027 to converge on P1, and P7, if possible (CATT)

[R2-2307212](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307212.zip) Discussion on CHO with candidate SCGs CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307294](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307294.zip) Discussion on CHO with candidate SCGs vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307376](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307376.zip) Discussion on CHO with candidate SCG(s) ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308750](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308750.zip) Remaining issues for CHO with candidate SCG MediaTek Inc. discussion NR\_Mob\_enh2-Core R2-2306297

[R2-2307578](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307578.zip) Further details on CHO with CPAC in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307964](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307964.zip) Discussion on CHO with candidate SCG(s) Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307785](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307785.zip) CHO with multiple candidate SCGs Qualcomm Incorporated discussion Rel-18

[R2-2307972](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307972.zip) CHO with associated CPC or CPA Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2307900](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307900.zip) Discussion on CHO with candidate SCG FGI discussion

[R2-2308005](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308005.zip) CHO with candidate SCG for CPAC Lenovo discussion Rel-18

[R2-2308043](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308043.zip) Discussion on open issues for CHO with candidate SCGs OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308122](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308122.zip) Discussion on CHO with CPAC in NR-DC Spreadtrum Communications discussion Rel-18

[R2-2308226](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308226.zip) Considerations on CHO with CPA/CPC Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308303](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308303.zip) Discussion on CHO including target MCG and candidate SCGs for CPC/CPA CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308409](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308409.zip) CHO with associated SCG Interdigital Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308772](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308772.zip) Discussion on remaining issues of CHO with candidate SCGs China Telecom discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308786](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308786.zip) Simultaneous Evaluation for CHO and CPAC LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2308820](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308820.zip) Discussion on CHO with candidate SCG(s) Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

## 7.5 XR Enhancements for NR

(NR\_XR\_enh-Core; leading WG: RAN2; REL-18; WID: [RP-230786](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_99/Docs/RP-230786.zip))

Time budget: 2 TU

Tdoc Limitation: 6 Tdocs

### 7.5.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, SA2/SA4 progress reports)

Running CR rapporteurs of MAC (Qualcomm), PDCP (LGE) and RRC (Huawei) specifications are requested to provide first versions running CRs as rapporteur input (which are not counted against the Tdoc limits), with the intent to have first endorsed versions of Stage-3 CRs after the meeting.

[R2-2307014](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307014.zip) LS on XR capacity enhancements (R1-2306233; contact: Ericsson) RAN1 LS in Rel-18 NR\_XR\_enh-Core To:RAN2

[R2-2307064](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307064.zip) LS reply on TSCAI for XR (S2-2308197; contact: vivo) SA2 LS in Rel-18 XRM, NR\_XR\_enh-Core To:RAN2, RAN3

[R2-2307065](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307065.zip) Reply LS on the N6 PDU Set Identification (S2-2308199; contact: OPPO) SA2 LS in Rel-18 XRM To:SA4 Cc:RAN1, RAN2, RAN3

[R2-2307066](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307066.zip) LS Reply on Design of RTP Header Extension for PDU Set handling (S2-2308248; contact: Huawei) SA2 LS in Rel-18 XRM, 5G\_RTP To:SA4, RAN3 Cc:RAN2

[R2-2307067](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307067.zip) Non-homogeneous deployment of PDU Set based handling (S2-2308252; contact: Qualcomm) SA2 LS in Rel-18 XRM To:RAN3, CT4 Cc:RAN2

[R2-2307076](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307076.zip) TS 38321 running CR for XR enhancements Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2308334](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308334.zip) Work Plan for Rel-18 WI on XR Enhancements for NR Nokia, Qualcomm (Rapporteurs); Ericsson (RAN1 FL) Work Plan Rel-18 NR\_XR\_enh-Core

[R2-2308335](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308335.zip) SA2 Status for XR Nokia, Qualcomm (Rapporteurs) discussion Rel-18 NR\_XR\_enh-Core

[R2-2308336](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308336.zip) SA4 Status for XR Nokia, Qualcomm (Rapporteurs) discussion Rel-18 NR\_XR\_enh-Core

[R2-2308337](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308337.zip) Stage 2 Overview of XR Enhancements Nokia, Qualcomm (Rapporteurs) draftCR Rel-18 38.300 17.5.0 B NR\_XR\_enh-Core

[R2-2308352](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308352.zip) Introduction of XR enhancements into TS 38.331 (running CR) Huawei, HiSilicon draftCR Rel-18 38.331 17.5.0 B NR\_XR\_enh-Core

[R2-2308353](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308353.zip) RRC CR open issues for XR enhancements Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

[R2-2308696](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308696.zip) Introduction of XR to PDCP LG Electronics Inc. draftCR Rel-18 38.323 17.5.0 NR\_XR\_enh-Core

### 7.5.2 XR awareness

Including discussion on the contents of UAI for XR traffic assistance information from UE to network (e.g. jitter signalling details, whether periodicity is needed, PSI signalling, etc.)

Including discussion on use of TSCAI for XR (e.g. as per SA2 LS [S2-2308197](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_157_Berlin_2023-05/Docs/S2-2308197.zip)) and whether there are any RAN2 impacts

Including discussion on how/what network configures for the UE on XR awareness (e.g. PSI/PSIHI, UAI framework, etc.) and how network uses the UE information (e.g. padding BSR to detect EoDB etc.)

[R2-2307164](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307164.zip) PSER measurement and feedback CANON Research Centre France discussion Rel-18 NR\_XR\_enh-Core

[R2-2307295](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307295.zip) Discussion on XR awareness vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2307346](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307346.zip) Leftover issues on XR awareness CATT discussion Rel-18 NR\_XR\_enh-Core

[R2-2307368](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307368.zip) Discussion on XR awareness Xiaomi Communications discussion

[R2-2307399](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307399.zip) Discussions on uplink End of Data Burst indication for XR Fujitsu discussion Rel-18 NR\_XR\_enh-Core

[R2-2307472](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307472.zip) Discussion on remaining issues of XR awareness NEC discussion Rel-18 NR\_XR\_enh-Core

[R2-2307531](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307531.zip) Details of UAI for XR awareness in RAN ZTE Corporation, Sanechips discussion

[R2-2307607](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307607.zip) Discussion on XR Awareness Facebook India discussion

[R2-2307728](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307728.zip) Discussion on XR awareness Samsung discussion Rel-18 NR\_XR\_enh-Core

[R2-2307828](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307828.zip) Views on XR-Awareness Apple discussion NR\_XR\_enh-Core

[R2-2308023](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308023.zip) Discussion on PDU sets and data burst awareness in RAN Lenovo discussion Rel-18

[R2-2308074](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308074.zip) UE Assistance Information for XR Intel Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2308127](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308127.zip) Discussion on XR awareness Spreadtrum Communications discussion Rel-18

[R2-2308155](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308155.zip) Considerations on awareness of XR PDU prioritization Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2308183](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308183.zip) Discussion on XR awareness OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2308247](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308247.zip) On XR awareness Google Inc. discussion

[R2-2308330](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308330.zip) Remaining Issues on XR awareness for UL Traffic CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2308338](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308338.zip) Jitter and End of Data Burst Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2308350](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308350.zip) Discussion on XR assistance information for UL Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

[R2-2308401](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308401.zip) On UE assistance information for XR traffic MediaTek Inc. discussion Rel-18 NR\_XR\_enh R2-2305897

[R2-2308518](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308518.zip) Discussions on UE indicating EoDB to RAN for XR Futurewei discussion Rel-18 NR\_XR\_enh-Core

[R2-2308544](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308544.zip) XR awareness InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2308586](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308586.zip) Discussion on XR awareness Ericsson discussion Rel-18 NR\_XR\_enh-Core

[R2-2308610](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308610.zip) Discussion on XR awareness LG Electronics Inc. discussion NR\_XR\_enh-Core

[R2-2308874](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308874.zip) Discussion on XR awareness China Unicom discussion NR\_XR\_enh-Core

### 7.5.3 XR-specific power saving

Including signalling details of using rational number DRX cycles with XR

Including discussion on solutions for SFN wrap-around (e.g. how does the dedicated signalling of the SFN counter work)?

[R2-2307077](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307077.zip) Power saving enhancements for XR Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2307119](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307119.zip) Discussion on C-DRX enhancements for XR Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

[R2-2307296](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307296.zip) Analysis on SFN wrap around issue vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2307347](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307347.zip) Discussion on power saving CATT discussion Rel-18 NR\_XR\_enh-Core

[R2-2307369](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307369.zip) Discussing on XR-specific power saving Xiaomi Communications discussion

[R2-2307533](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307533.zip) XR-specific power saving ZTE Corporation, Sanechips discussion

[R2-2307704](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307704.zip) Discussion on various frame rates supported for XR-specific power III discussion

[R2-2307788](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307788.zip) DRX enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2307807](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307807.zip) Remaining issues on DRX enhancement for XR LG Electronics Inc. discussion Rel-18 NR\_XR\_enh-Core

[R2-2307829](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307829.zip) Views on Configurations of Rational Number-Based DRX Cycles Apple discussion NR\_XR\_enh-Core

[R2-2307891](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307891.zip) Discussion on DRX enhancement for XR ITRI discussion NR\_XR\_enh-Core

[R2-2307901](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307901.zip) Discussion on C-DRX enhancement for XR NEC Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2308024](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308024.zip) Discussion of DRX enhancement Lenovo discussion Rel-18

[R2-2308184](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308184.zip) Discussion on XR-specific power saving OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2308223](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308223.zip) Discussion on remaining issue of power saving scheme for XR Samsung discussion Rel-18 NR\_XR\_enh

[R2-2308278](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308278.zip) XR-specific power saving enhancement Google Inc. discussion

[R2-2308309](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308309.zip) Discussion on the DRX enhancement CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2308402](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308402.zip) Remaining issues for C-DRX in XR MediaTek Inc. discussion Rel-18 NR\_XR\_enh

[R2-2308585](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308585.zip) Discussion on XR-specific power saving Ericsson discussion Rel-18 NR\_XR\_enh-Core

### 7.5.4 XR-specific capacity improvements

No documents should be submitted to 7.5.4. Please submit to 7.5.4.x

[R2-2307268](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307268.zip) Discussions on remaining time reporting KDDI Corporation discussion NR\_XR\_enh-Core

#### 7.5.4.1 BSR enhancements for XR

Including discussion on details for the delay status reporting (e.g. BSR format and values to be reported, how does the DSR work with the BSR, is there impact from intra-UE prioritization on the remaining time calculation, etc.)

Including discussion on how to define the static BSR table for XR (e.g. min/max of the table and steps between values etc.)

[R2-2307078](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307078.zip) BSR and delay status reporting for XR Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2307099](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307099.zip) Discussion on delay information and BSR enhancement for XR Google Inc. discussion NR\_XR\_enh-Core

[R2-2307133](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307133.zip) Discussion on XR-specific BSR enhancements TCL discussion

[R2-2307156](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307156.zip) Discussion on BSR enhancements for XR Honor discussion Rel-18 NR\_XR\_enh-Core

[R2-2307197](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307197.zip) Discussion on MAC enhancements for XR-specific capacity improvement Huawei, HiSilicon discussion NR\_XR\_enh-Core

[R2-2307243](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307243.zip) Discussion on delay status reporting for XR DENSO CORPORATION discussion Rel-18 NR\_XR\_enh-Core

[R2-2307297](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307297.zip) Discussion on BSR enhancements for XR vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2307348](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307348.zip) Consideration on DSR and BSR CATT discussion Rel-18 NR\_XR\_enh-Core

[R2-2307370](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307370.zip) Discussing on BSR enhancements for XR capacity Xiaomi Communications discussion

[R2-2307400](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307400.zip) Discussions on delay information reporting Fujitsu discussion Rel-18 NR\_XR\_enh-Core

[R2-2307532](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307532.zip) BSR enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2307609](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307609.zip) XR BSR and Delay Information Enhancements Facebook India discussion

[R2-2307682](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307682.zip) Discussion on Delay status reporting NTT DOCOMO, INC. discussion Rel-18

[R2-2307761](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307761.zip) Discussions on delay status reporting in BSR for XR Futurewei discussion Rel-18 NR\_XR\_enh-Core

[R2-2307762](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307762.zip) Discussions on new Buffer Status table design for XR Futurewei discussion Rel-18 NR\_XR\_enh-Core

[R2-2307789](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307789.zip) BSR enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2307830](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307830.zip) Buffer Delay Reporting and BSR Enhancements for XR Apple discussion NR\_XR\_enh-Core

[R2-2307902](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307902.zip) Discussion on delay status reporting for XR NEC Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2307913](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307913.zip) New buffer status report table design FGI discussion

[R2-2307914](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307914.zip) Discussion on BSR enhancements for XR III discussion NR\_XR\_enh-Core

[R2-2307942](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307942.zip) Delay information reporting for XR Lenovo discussion Rel-18 NR\_XR\_enh-Core

[R2-2308025](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308025.zip) Discussion on BSR enhancements Lenovo discussion Rel-18

[R2-2308076](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308076.zip) BSR Enhancements for XR Intel Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2308134](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308134.zip) Consideration on BSR enhancements for XR Spreadtrum Communications discussion Rel-18

[R2-2308156](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308156.zip) Considerations on XR UL PDU set information Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2308157](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308157.zip) Some considerations on BSR enhancements for XR Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2308185](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308185.zip) Discussion on BSR enhancement for XR OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2308310](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308310.zip) Consideration on BSR enhancement for XR CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2308372](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308372.zip) New static BS table and BSR trigger(s) NEC discussion NR\_XR\_enh

[R2-2308412](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308412.zip) Buffer status and remaining time reporting for XR Interdigital Inc. discussion Rel-18 NR\_XR\_enh-Core

R2-2308567 Buffer status and remaining time reporting for XR Interdigital Inc. discussion Rel-18 NR\_XR\_enh-Core Withdrawn

[R2-2308587](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308587.zip) Discussion on BSR enhancements for XR Ericsson discussion Rel-18 NR\_XR\_enh-Core

[R2-2308677](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308677.zip) BSR enhancements for XR MediaTek Inc. discussion Rel-18

[R2-2308875](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308875.zip) Discussion on new BSR table and delay status report LG Electronics Inc. discussion Rel-18 NR\_XR\_enh-Core

[R2-2308883](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308883.zip) Discussion on BSR enhancements for XR Samsung discussion Rel-18 FS\_NR\_XR\_enh

#### 7.5.4.2 Discard operation for XR

Including discussion the configuration and PDCP specification details of PDU set-based discard operation

Including discussion on how PSI-based discard is used by UE e.g. by RRC configuration, PDCP/RLC/MAC header or control PDU, MAC CE?

Including discussion on how PSI impacts discard operation (e.g. do we have one or two timers, etc.)

[R2-2307079](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307079.zip) PDU discard operation for XR Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2307100](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307100.zip) Discussion on PDU discard for XR Google Inc. discussion Rel-18 NR\_XR\_enh-Core

[R2-2307134](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307134.zip) Discussion on XR-specific discard enhancements TCL discussion

[R2-2307165](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307165.zip) Discussion on packet discarding for XR CANON Research Centre France discussion Rel-18 NR\_XR\_enh-Core

[R2-2307196](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307196.zip) Discussion on PDU set discarding for XR traffic Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

[R2-2307298](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307298.zip) Discussion on discard operation for XR vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2307299](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307299.zip) Discussion on RLC impacts on PDU set discard vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2307349](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307349.zip) PDCP discard timer model for PDU Set discard CATT, China Unicom, DELL, Ericsson, Intel Corporation, OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2307350](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307350.zip) Discard Operation for XR CATT discussion Rel-18 NR\_XR\_enh-Core

[R2-2307371](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307371.zip) Discussing on PDU discarding of XR traffic Xiaomi Communications discussion

[R2-2307401](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307401.zip) Discussions on PDU discard based on PDU Set Importance Fujitsu discussion Rel-18 NR\_XR\_enh-Core

[R2-2307534](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307534.zip) PDU discard for XR ZTE Corporation, Sanechips discussion

[R2-2307593](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307593.zip) Discard Operation for XR Samsung R&D Institute India discussion

[R2-2307608](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307608.zip) Discussion on PDU Discard Operation for XR Facebook India discussion

[R2-2307763](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307763.zip) Discussions on PSI-based discard operation for XR Futurewei discussion Rel-18 NR\_XR\_enh-Core

[R2-2307831](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307831.zip) Views on PDU Discard Operation for XR Apple discussion NR\_XR\_enh-Core

[R2-2307892](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307892.zip) Discussion on PSI-based discard operation ITRI discussion NR\_XR\_enh-Core

R2-2307950 Remaining details on discarding operation for XR Lenovo discussion Rel-18 NR\_XR\_enh-Core Late

[R2-2307953](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307953.zip) Remaining details on discarding operation for XR Lenovo discussion Rel-18 NR\_XR\_enh-Core

[R2-2308075](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308075.zip) Discard Enhancements for XR Intel Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2308128](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308128.zip) Discussion on XR discard operation Spreadtrum Communications discussion Rel-18

[R2-2308173](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308173.zip) Some considerations on PSI and PSIHI Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2308186](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308186.zip) Discussion on discard operation for XR OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2308331](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308331.zip) Further discussions on discard operation for XR CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2308339](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308339.zip) Details of PSI-based Discard Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2308371](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308371.zip) PDU discard NEC discussion NR\_XR\_enh

[R2-2308546](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308546.zip) Discard operation for XR InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2308588](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308588.zip) Discussion on PSI-based discarding Ericsson discussion Rel-18 NR\_XR\_enh-Core

[R2-2308607](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308607.zip) Discussion on the discard for XR LG Electronics Inc. discussion NR\_XR\_enh-Core

[R2-2308668](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308668.zip) Further aspects of PDU discard MediaTek Inc. discussion Rel-18 R2-2305899

#### 7.5.4.3 Configured Grant enhancements for XR

Including RAN2-specific aspects of unused and/or multiple configured grant (CG) PUSCH transmission occasions in a period of a single CG PUSCH configuration (UTO-UCI, HARQ process determination, etc.).

Including discussion on the topics raised in RAN1 LS R1-2306233.

[R2-2307080](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307080.zip) Configured grant enhancements for XR Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2307120](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307120.zip) Discussin on Multi-PUSCH CG Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

[R2-2307244](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307244.zip) Discussion on HARQ process ID determination for multi-PUSCHs CG DENSO CORPORATION discussion Rel-18 NR\_XR\_enh-Core

[R2-2307245](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307245.zip) Configured Grant enhancements for XR Xiaomi discussion Rel-18 NR\_XR\_enh-Core

[R2-2307351](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307351.zip) Discussion on configured grant CATT discussion Rel-18 NR\_XR\_enh-Core

[R2-2307535](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307535.zip) Configured Grant enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2307729](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307729.zip) Discussion on CG enhancements Samsung discussion Rel-18 NR\_XR\_enh-Core

[R2-2307790](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307790.zip) CG enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2307832](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307832.zip) Views on UTO for Multi-PUSCH Configured Grant Apple discussion NR\_XR\_enh-Core

[R2-2307915](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307915.zip) Discussion on Configured Grant enhancements for XR III discussion NR\_XR\_enh-Core

[R2-2307954](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307954.zip) CG enhancements for XR communications Lenovo discussion Rel-18 NR\_XR\_enh-Core

[R2-2308158](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308158.zip) Configured Grant enhancements for XR Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2308187](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308187.zip) Discussion on configured grant enhancement for XR OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2308246](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308246.zip) On Configured Grant enhancements for XR Google Inc. discussion

[R2-2308311](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308311.zip) Consideration on CG enhancement for XR CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2308370](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308370.zip) CG enhancement for XR NEC discussion NR\_XR\_enh

[R2-2308543](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308543.zip) Configured Grant enhancements for XR Ericsson discussion Rel-18 NR\_XR\_enh-Core

[R2-2308547](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308547.zip) Configured Grant enhancements for XR InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2308672](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308672.zip) HARQ ID determination formula for CG MediaTek Inc. discussion Rel-18

[R2-2308679](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308679.zip) Discussion on multiple-PUSCHs CG for XR TCL discussion Rel-18

[R2-2308876](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308876.zip) Discussion on CG enhancement for XR LG Electronics Inc. discussion Rel-18 NR\_XR\_enh-Core

### 7.5.5 UE capabilities for XR

Including UE capability specification rapporteur (Intel) proposal for starting point of UE capability discussions (e.g. as provided in R2-2305492, does not count against Tdoc limit)

Including discussion on UE capabilities for XR from RAN2 perspective, e.g. what are the baseline capabilities for XR and what are optional additions and are there some dependencies to existing capabilities?

[R2-2307081](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307081.zip) UE capabilities for XR services Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2307246](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307246.zip) UE capabilities for XR Xiaomi discussion Rel-18 NR\_XR\_enh-Core

[R2-2307300](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307300.zip) Discussion on UE capability for XR vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2307536](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307536.zip) UE capabilities for XR ZTE Corporation, Sanechips discussion

[R2-2307730](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307730.zip) UE capability for XR Samsung discussion Rel-18 NR\_XR\_enh-Core

[R2-2307833](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307833.zip) Views on UE capabilities for XR Apple discussion NR\_XR\_enh-Core

[R2-2308073](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308073.zip) UE Capabilities for Rel-18 XR WI Intel Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2308188](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308188.zip) Discussion on UE capabilities for XR OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2308340](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308340.zip) UE capabilities for Rel-18 XR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2308351](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308351.zip) Discussion on UE capabilities for XR Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

[R2-2308545](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308545.zip) UE capabilities for XR InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2308589](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308589.zip) Discussion on UE capabilities for XR Ericsson discussion Rel-18 NR\_XR\_enh-Core

## 7.6 IoT NTN enhancements

(IoT\_NTN\_enh-Core; leading WG: RAN1; REL-18; WID: RP-223519)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.6.1 Organizational

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

[R2-2307003](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307003.zip) LS on GNSS position fix during inactive state of Connected DRX for improved GNSS operations (R1-2304126; contact: MediaTek) RAN1 LS in Rel-18 IoT\_NTN\_enh-Core To:RAN2

[R2-2307005](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307005.zip) Reply LS on HARQ Enhancements (R1-2306182; contact: OPPO) RAN1 LS in Rel-18 IoT\_NTN\_enh-Core To:RAN2

[R2-2307012](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307012.zip) LS on Rel-18 RAN1 UE features list for LTE after RAN1#113 (R1-2306222; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-18 IoT\_NTN\_enh-Core To:RAN2 Cc:RAN4

[R2-2307016](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307016.zip) LS on NPDCCH monitoring restriction for NB-IoT NTN (R1-2306245; contact: Lenovo) RAN1 LS in Rel-18 IoT\_NTN\_enh-Core To:RAN2

[R2-2307625](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307625.zip) Running CR for TS 36.306 for Rel-18 IoT NTN Qualcomm Incorporated draftCR Rel-18 36.306 17.4.0 B IoT\_NTN\_enh-Core

[R2-2308046](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308046.zip) 36331 running CR for IOT NTN Huawei, HiSilicon draftCR Rel-18 36.331 17.5.0 B IoT\_NTN\_enh-Core

[R2-2308194](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308194.zip) 36.304 Running CR for Rel-18 IoT NTN Nokia Solutions & Networks (I) draftCR Rel-18 36.304 17.4.0 IoT\_NTN\_enh-Core

[R2-2308542](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308542.zip) Running CR for IoT NTN Ericsson draftCR Rel-18 36.300 17.5.0 B IoT\_NTN\_enh-Core

[R2-2308904](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308904.zip) On R18 IoT NTN UE capabilities Ericsson discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308939](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308939.zip) Rapporteur input on 36.300 Ericsson draftCR Rel-18 36.300 17.5.0 B IoT\_NTN\_enh-Core

### 7.6.2 Performance Enhancements

[R2-2308890](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308890.zip) On improved GNSS operation and HARQ for IoT NTN Samsung Electronics Czech discussion Rel-18 IoT\_NTN\_enh

#### 7.6.2.1 HARQ enhancements

[R2-2307105](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307105.zip) Discussion on HARQ Enhancement for IoT NTN vivo discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307189](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307189.zip) On Disabling HARQ Feedback in IoT-NTN MediaTek Inc. discussion

[R2-2307250](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307250.zip) Discussion on HARQ enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307251](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307251.zip) Draft reply LS on NPDCCH monitoring restriction for NB-IoT NTN OPPO LS out Rel-18 IoT\_NTN\_enh-Core To:RAN1

[R2-2307413](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307413.zip) Discussion on HARQ enhancements in IoT NTN CATT discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307488](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307488.zip) Discussion on HARQ mode for PUR Huawei, Turkcell, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307506](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307506.zip) Discussion on HARQ enhancement Xiaomi discussion Rel-18

[R2-2307587](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307587.zip) Further discussion on HARQ enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307626](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307626.zip) HARQ process enhancement Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308228](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308228.zip) On HARQ enhancements for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308288](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308288.zip) Discussion on the HARQ enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308541](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308541.zip) R18 IoT NTN HARQ enhancements Ericsson discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308576](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308576.zip) Remaining Issues on Disabling HARQ feedback for IoT-NTN Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

#### 7.6.2.2 GNSS operation enhancements

[R2-2307106](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307106.zip) Discussion on GNSS Operation for IoT NTN vivo discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307190](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307190.zip) Enhancements on GNSS operation MediaTek Inc. discussion

[R2-2307259](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307259.zip) Discussion on GNSS operation for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307414](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307414.zip) Discussion on GNSS operation in connected mode CATT discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307477](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307477.zip) Discussion on the GNSS Validity Reporting Google Inc. discussion Rel-18

[R2-2307489](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307489.zip) Discussion on the impact of GNSS measurement Huawei, Turkcell, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307505](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307505.zip) Discussion on GNSS operation enhancement Xiaomi discussion Rel-18

[R2-2307588](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307588.zip) Remaining issues of GNSS enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307629](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307629.zip) GNSS fix in RRC\_CONNECTED Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307865](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307865.zip) Improved GNSS Operation Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2308008](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308008.zip) Some remaining issues of GNSS operations for IoT NTN Lenovo discussion Rel-18

[R2-2308229](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308229.zip) GNSS operation enhancement in Rel-18 IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308289](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308289.zip) Discussion on GNSS enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308540](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308540.zip) R18 IoT NTN GNSS operation enhancements Ericsson discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308577](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308577.zip) GNSS acquisition and reporting for IoT NTN Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308617](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308617.zip) Discussion of GNSS operation enhancements SHARP Corporation discussion

[R2-2308881](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308881.zip) GNSS Validity duration Reporting Nordic Semiconductor ASA discussion

### 7.6.3 Mobility Enhancements

[R2-2307192](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307192.zip) Report of [Post122][112][IoT NTN Enh] Mobility MediaTek Inc. discussion

[R2-2307589](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307589.zip) Remaining issues of mobility enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

#### 7.6.3.1 Enhancements for neighbour cell measurements

Including outcome of [Post122][112][IoT NTN Enh] Mobility enhancements (other contributions on issues handled in [Post122][112][ might not be treated at RAN2#123)

[R2-2307191](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307191.zip) Remaining Enhancements on Neighbor Cell Measurements in IoT-NTN MediaTek Inc. discussion

[R2-2307252](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307252.zip) Discussion on mobility enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307511](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307511.zip) Discussion on UE behavior when serving cell t-service expires Xiaomi discussion Rel-18

[R2-2307628](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307628.zip) Measurement and Mobility enhancements Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307772](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307772.zip) On remaining issues of IoT-NTN mobility enhancements Nokia, Nokia Shanghai Bell discussion

[R2-2307866](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307866.zip) Neighbour cell measurements before RLF for NB-IoT Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2308034](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308034.zip) Enhancements for neighbour cell measurements Huawei, Turkcell, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308578](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308578.zip) Open issues on mobility enhancements (not covered by [Post122][112]) Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308811](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308811.zip) Discussion on gaps for neighbour cell measurements in IoT NTN Ericsson discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308891](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308891.zip) On enhancements for neighbour cell measurements Samsung Electronics Czech discussion Rel-18 IoT\_NTN\_enh

#### 7.6.3.2 Other

[R2-2307107](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307107.zip) Discussion on Mobility Enhancement for R18 IoT NTN vivo discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307867](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307867.zip) Mobility enhancement in IoT NTN Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2308035](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308035.zip) Discussion on CHO enhancements Huawei, Turkcell, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308290](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308290.zip) Discussion on CHO enhancements for eMTC NTN CMCC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308892](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308892.zip) On CHO and other mobility enhancements for IoT NTN Samsung Electronics Czech discussion Rel-18 IoT\_NTN\_enh

### 7.6.4 Enhancements to discontinuous coverage

Including outcome of [Post122][113][IoT NTN Enh] Discontinuous coverage (other contributions on issues handled in [Post122][113][ might not be treated at RAN2#123)

[R2-2307108](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307108.zip) Discussion on Discontinuous Coverage for R18 IoT NTN vivo discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307319](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307319.zip) Discontinuous coverage handling enhancement for IoT NTN THALES, Telit discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307415](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307415.zip) Discussion on enhancements to discontinuous coverage CATT discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307444](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307444.zip) Considerations on Supporting Discontinuous Coverage NEC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307497](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307497.zip) Report of [Post122][113][IoT NTN Enh] Discontinuous coverage (Huawei) Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307590](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307590.zip) Remaining issues of discontinuous coverage ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307627](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307627.zip) RRC release procedure in discontinuous coverage Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2307773](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307773.zip) Further discussion on discontinuous coverage enhancements Nokia, Nokia Shanghai Bell discussion

[R2-2307868](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307868.zip) Support on discontinuous coverage in IoT NTN Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2308009](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308009.zip) Some remaining issues for discontinuous coverage Lenovo discussion Rel-18

[R2-2308217](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308217.zip) Discussion on enhancement to discontinuous coverage for IoT NTN Transsion Holdings discussion Rel-18

[R2-2308285](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308285.zip) Enhancements to discontinuous coverage Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308579](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308579.zip) Paging in discontinuous coverage Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2308580](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308580.zip) <draft> LS on PTW modification due to UE unreachability Interdigital, Inc. LS out Rel-18 IoT\_NTN\_enh-Core To:SA2 Cc:CT1

[R2-2308717](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308717.zip) Discussion on TN coverage for discontinuous coverage ASUSTeK discussion Rel-18 IoT\_NTN\_enh-Core

## 7.7 NR NTN enhancements

(NR\_NTN\_enh -Core; leading WG: RAN1; REL-18; WID: RP-223534)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.7.1 Organizational

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

[R2-2307008](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307008.zip) Reply LS to RAN2 on unchanged PCI (R1-2306210; contact: CATT) RAN1 LS in Rel-18 NR\_NTN\_enh-Core To:RAN2

[R2-2307011](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307011.zip) Reply LS on RACH-less Handover (R1-2306217; contact: Samsung) RAN1 LS in Rel-18 NR\_NTN\_enh-Core To:RAN2

[R2-2307035](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307035.zip) LS on time-based trigger condition in NG HO for NR NTN (R3-233527; contact: Ericsson) RAN3 LS in Rel-18 NR\_NTN\_enh-Core To:SA2 Cc:RAN2

[R2-2307318](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307318.zip) Stage 2 running CR for TS 38.300 for Rel-18 NTN enhancements THALES (Rapporteur) draftCR Rel-18 38.300 17.5.0 B NR\_NTN\_enh-Core R2-2306960

[R2-2307323](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307323.zip) R18 WI NR-NTN-enh work plan at RAN1, 2 and 3 THALES Work Plan Rel-18 R2-2305391

[R2-2308092](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308092.zip) UE Capability Discussion for Rel-18 NR NTN Enhancements WI Intel Corporation discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308093](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308093.zip) UE capabilities for Rel-18 NR NTN Enhancements WI Intel Corporation draftCR Rel-18 38.306 17.5.0 B NR\_NTN\_enh-Core

[R2-2308094](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308094.zip) UE capabilities for Rel-18 NR NTN Enhancements WI Intel Corporation draftCR Rel-18 38.331 17.5.0 B NR\_NTN\_enh-Core

[R2-2308523](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308523.zip) Stage 3 NTN running CR for 38.321 - RAN2#122 InterDigital draftCR Rel-18 38.321 17.5.0 B NR\_NTN\_enh-Core R2-2306955

[R2-2308902](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308902.zip) Stage 3 Running RRC CR for NR NTN Rel-18 Ericsson CR Rel-18 38.331 17.5.0 4293 - B NR\_NTN\_enh-Core Revised

[R2-2308937](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308937.zip) Stage 3 Running RRC CR for NR NTN Rel-18 Nanjing Ericsson Panda Com Ltd CR Rel-18 38.331 17.5.0 4293 1 B NR\_NTN\_enh-Core [R2-2308902](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308902.zip)

### 7.7.2 Coverage Enhancements

[R2-2307195](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307195.zip) Discussion on PUCCH repetition for Msg4 HARQ-ACK for NTN NTT DOCOMO INC. discussion Rel-18

[R2-2307253](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307253.zip) Discussion on PUCCH enhancement for Msg4 HARQ-ACK in NR NTN OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307313](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307313.zip) Discussion on signalling for PUCCH repetition for Msg4 HARQ-ACK Samsung discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307416](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307416.zip) Discussion on PUCCH repetition for Msg4 HARQ-ACK CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307512](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307512.zip) Discussion on coverage enhancement for NR NTN Xiaomi discussion Rel-18

[R2-2307526](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307526.zip) Higher layer signalling for PUCCH repetition for Msg4 HARQ-ACK Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307620](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307620.zip) UE capability indication for Msg4 ACK repetition Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307839](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307839.zip) HL signaling design for the PUCCH repetition request Apple discussion Rel-18 DUMMY

[R2-2308230](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308230.zip) On Msg3 indication for PUCCH repetition for Msg4 HARQ-ACK Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308294](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308294.zip) Discussion on the LS on higher layer signaling in Msg3 PUSCH for PUCCH repetition for Msg4 HARQ-ACK CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308507](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308507.zip) Consideration on coverage enhancements ZTE Corporation, Sanechips discussion Rel-18

[R2-2308539](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308539.zip) R18 NR NTN Coverage enhancements Ericsson discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308604](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308604.zip) Discussion on coverage enhancement LG Electronics Inc. discussion NR\_NTN\_enh-Core

### 7.7.3 Network verified UE location

[R2-2307320](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307320.zip) Discussion on network verified UE location in NR NTN THALES discussion Rel-18 NR\_NTN\_enh-Core R2-2305408

[R2-2307487](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307487.zip) Discussion on the network verfied UE location Huawei, Turkcell, HiSilicon discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307601](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307601.zip) UE support of Network Verified UE Location Feature Samsung R&D Institute UK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307908](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307908.zip) Discussion on network verified UE location Ericsson discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308196](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308196.zip) Discussion on multiple-RTT based positioning in NTN Quectel discussion

[R2-2308263](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308263.zip) Discussion on network verified UE location Xiaomi discussion

[R2-2308277](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308277.zip) Discussion on NTN NW verified UE location Lenovo discussion Rel-18

[R2-2308295](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308295.zip) Considerations on network verified UE location CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308450](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308450.zip) UE location verification by Network NEC Telecom MODUS Ltd. discussion

[R2-2308706](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308706.zip) Discussion on Network Verified UE Location TCL discussion

[R2-2308777](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308777.zip) On Network verified UE location for NR NTN MediaTek Inc. discussion

### 7.7.4 NTN-TN and NTN-NTN mobility and service continuity enhancements

#### 7.7.4.1 Cell reselection enhancements

[R2-2307314](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307314.zip) Discussion on Cell Reselection Enhancements Samsung discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307321](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307321.zip) Discussion on mobility enhancements for VSAT THALES discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308901](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308901.zip) Idle mode mobility enhancements Ericsson discussion Rel-18 NR\_NTN\_enh-Core

##### 7.7.4.1.1 NTN-TN enhancements

[R2-2307101](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307101.zip) Remaining Issues on Power Saving for NTN-TN Mobility vivo discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307166](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307166.zip) NTN neighbour cell information in TN cells PANASONIC R&D Center Germany discussion

[R2-2307167](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307167.zip) Considerations on TN-NTN cell re-selection Telit Communications S.p.A. discussion

[R2-2307217](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307217.zip) Discussion on providing TN coverage area information LG Electronics France discussion Rel-18 38.331 NR\_NTN\_enh

[R2-2307254](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307254.zip) Discussion on NTN-TN cell reselection enhancement OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307417](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307417.zip) Discussion on the mechanism for providing TN coverage information CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307579](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307579.zip) On TN Coverage Definition and TN to NTN Reselections Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307621](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307621.zip) TN cell coverage info and measurement relaxation Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307739](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307739.zip) Discussion on NTN to TN cell reselection enhancements TCL discussion

[R2-2307840](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307840.zip) NTN-TN cell reselection enhancement Apple discussion Rel-18 DUMMY

[R2-2308010](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308010.zip) Some remaining issues for TN area information Lenovo discussion Rel-18

[R2-2308054](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308054.zip) Discussion on the NTN – TN cell reselection enhancement Turkcell, Huawei, HiSilicon discussion Rel-18

[R2-2308116](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308116.zip) Discussion on NTN-TN enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2308218](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308218.zip) Discussion on remaining issues of NTN-TN cell reselection enhancements Transsion Holdings discussion Rel-18

[R2-2308239](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308239.zip) Discussion on TN coverage description ETRI discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308264](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308264.zip) Cell reselection enhancements for NTN-TN mobility Xiaomi discussion

[R2-2308283](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308283.zip) Signaling of the TN coverage area and the frequency information ZTE corporation, Sanechips discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308296](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308296.zip) Discussion on open issues for NTN-TN cell reselection CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308524](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308524.zip) NTN-TN mobility and service continuity InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308701](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308701.zip) Discussion on NTN-TN Cell re-selection ITL discussion Rel-18

##### 7.7.4.1.2 NTN-NTN enhancements

[R2-2307102](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307102.zip) Further discussion NTN-NTN Mobility for Earth-moving Cell vivo discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307218](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307218.zip) Discussion on NTN-NTN cell reselection enhancements LG Electronics France discussion Rel-18 38.331 NR\_NTN\_enh R2-2306032

[R2-2307255](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307255.zip) Discussion on NTN-NTN cell reselection enhancement OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307740](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307740.zip) Discussion on NTN to NTN cell reselection enhancements TCL discussion

[R2-2308011](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308011.zip) Feeder link switch time and reference location of NTN moving cells Lenovo discussion Rel-18

[R2-2308033](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308033.zip) Discussion on location-based measurement initiation in moving cells Huawei, Turkcell, HiSilicon discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308124](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308124.zip) Discussion on NTN-NTN mobility enhancements Spreadtrum Communications discussion Rel-18

[R2-2308265](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308265.zip) Cell reselection enhancements for NTN-NTN mobility Xiaomi discussion

[R2-2308297](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308297.zip) Discussion on remaining issues for NTN-NTN reselection CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308525](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308525.zip) Cell reselection enhancements for Earth moving cell InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308700](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308700.zip) Discussion on NTN-NTN cell reselection enhancements CAICT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308718](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308718.zip) Discussion on description of movingReferenceLocation ASUSTeK discussion Rel-18 38.331 NR\_NTN\_enh-Core

#### 7.7.4.2 Handover enhancements

Including outcome of [Post122][114][NR NTN Enh] Unchanged PCI (other contributions on issues handled in [Post122][114][ might not be treated at RAN2#123)

[R2-2307103](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307103.zip) Discussion on Handover Enhancement with Common HO Configuration in NR NTN vivo discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307104](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307104.zip) Further Discusison on Service Link Switch with Unchanged PCI vivo discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307193](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307193.zip) On Triggering Unchanged PCI for Handover Enhancement in LEO NTN MediaTek Inc. discussion

[R2-2307219](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307219.zip) Discussion on handover enhancements LG Electronics France discussion Rel-18 38.331 NR\_NTN\_enh R2-2306033

[R2-2307258](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307258.zip) Discussion on NTN handover enhancements OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307315](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307315.zip) Discussion on Handover Enhancements Samsung discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307343](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307343.zip) Handover enhancements Continental Automotive discussion Rel-18

[R2-2307418](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307418.zip) Discussion on unchanged PCI scenario CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307419](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307419.zip) Discussion on RACH-less and common (C)HO configuration CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307476](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307476.zip) Discussion on the Unchanged PCI Satellite Switch Google Inc. discussion Rel-18

[R2-2307580](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307580.zip) Resolving Open Points on RACH-less HO in Rel-18 NTN Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307581](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307581.zip) On Unchanged PCI and Satellite Switching without L3 Mobility Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307622](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307622.zip) RACH-less handover for NTN Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307623](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307623.zip) Details on satellite switch with PCI unchange Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2307741](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307741.zip) Discussion on satellite switch with unchanged PCI Panasonic discussion

[R2-2307841](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307841.zip) Hard satellite switching with unchanged PCI Apple discussion Rel-18 DUMMY

[R2-2307842](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307842.zip) NR NTN specific HO enhancement Apple discussion Rel-18 DUMMY

[R2-2307893](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307893.zip) Discussion on gap time of unchanged PCI ITRI discussion NR\_NTN\_enh-Core

[R2-2307894](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307894.zip) Discussion on common information of group handover ITRI discussion NR\_NTN\_enh-Core

[R2-2307896](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307896.zip) Discussion on soft satellite switching with PCI unchanged FGI discussion

[R2-2307943](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307943.zip) RACH-less signaling design for NTN China Telecom discussion Rel-18

[R2-2308012](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308012.zip) Some remaining issues for RACH-less HO in NTN Lenovo discussion Rel-18

[R2-2308032](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308032.zip) Remaining issues on RACH-less HO in NTN Huawei, Turkcell, HiSilicon discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308146](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308146.zip) Discussion on RACH-less HO Sharp discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308159](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308159.zip) Signaling overhead reduction during NTN-NTN HOs Sony discussion Rel-18 NR\_NTN\_enh

[R2-2308219](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308219.zip) Discussion on open issues of NTN-NTN handover Transsion Holdings discussion Rel-18

[R2-2308266](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308266.zip) Discussion on handover enhancements for NTN-NTN mobility Xiaomi discussion

[R2-2308329](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308329.zip) Report of [Post122][114][NR NTN Enh] Unchanged PCI CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308373](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308373.zip) Satellite Switch, PCI change without L3 handover NEC discussion NR\_NTN\_enh-Core

[R2-2308374](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308374.zip) Support RACH-less CHO NEC discussion NR\_NTN\_enh-Core

[R2-2308526](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308526.zip) NTN mobility enhancements for RRC\_CONNECTED InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308527](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308527.zip) Satellite switching without PCI change InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308609](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308609.zip) Discussion on NTN handover enhancements Fujitsu discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308719](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308719.zip) Discussion on moving cell reference location for CHO ASUSTeK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308752](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308752.zip) Discussion on random access in the unchanged PCI scenario ETRI discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308753](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308753.zip) “Unchanged PCI” solution vs “PCI change only” solution Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core R2-2306517

[R2-2308755](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308755.zip) Common signalling of HO common information Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core

[R2-2308900](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308900.zip) Handover enhancements Ericsson discussion Rel-18 NR\_NTN\_enh-Core

## 7.8 NR support for UAV

(NR\_UAV -Core; leading WG: RAN2; REL-18; WID: RP-223545)

Time budget: 1 TU

Tdoc Limitation: 3

### 7.8.1 Organizational

Stage 2 running CR expected as input to this meeting

Expected input: Running CRs for 38.331 (Qualcomm), 38.300 (Nokia)

Expected input after capability discussions: 38.306 (Huawei)

[R2-2307034](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307034.zip) Reply LS to RAN2 on flightpath information forwarding for UAV (R3-233493; contact: ZTE) RAN3 LS in Rel-18 NR\_UAV-Core To:RAN2 Cc:SA2

[R2-2307059](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307059.zip) Reply LS on BRID and DAA broadcast over LTE and NR PC5 (S2-2307781; contact: LGE) SA2 LS in Rel-18 NR\_UAV-Core, UAS\_Ph2 To:RAN2

[R2-2307582](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307582.zip) Uncrewed Aerial Vehicles in Rel-18 - Updated Workplan Nokia, Nokia Shanghai Bell Work Plan Rel-18 NR\_UAV-Core

[R2-2307583](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307583.zip) 38.300 Running CR for Rel-18 UAVs Nokia, Nokia Shanghai Bell draftCR Rel-18 38.300 17.5.0 NR\_UAV-Core

[R2-2307634](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307634.zip) RRC Running CR (Introduction of Aerial Support) Qualcomm Incorporated draftCR Rel-18 38.331 17.5.0 B NR\_UAV-Core

### 7.8.2 Measurement reporting for mobility and interference control

Contributions should focus on further details related enhancement to measurement reports taking into account agreements made in RAN2#121bis-e

[R2-2307441](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307441.zip) Discussion on Measurement Reports Enhancements NEC discussion Rel-18 NR\_UAV-Core

[R2-2307463](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307463.zip) UAV measurement reports Ericsson discussion Rel-18 NR\_UAV-Core

[R2-2307635](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307635.zip) Measurement and reporting enhancements Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2307681](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307681.zip) Further discussion on NR support for UAV NTT DOCOMO, INC. discussion Rel-18

[R2-2307734](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307734.zip) On height-dependent SSB-ToMeasure configuration ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2307735](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307735.zip) On measurement reporting enhancement ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2307869](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307869.zip) Measurement reporting enhancement in UAV Apple discussion Rel-18 NR\_UAV-Core

[R2-2307996](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307996.zip) Discussion on height dependent measurement for NR UAV Lenovo discussion Rel-18

[R2-2308298](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308298.zip) Discussion on the FFS issues for measurement reporting CMCC discussion Rel-18 NR\_UAV-Core

[R2-2308605](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308605.zip) On Height-dependent Measurement Report Configuration for UAVs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2308651](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308651.zip) Discussion on Measurement Reporting for NR UAV China Telecom discussion

[R2-2308686](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308686.zip) Discussion on no-transmit-zone LG Electronics discussion Rel-18 NR\_UAV-Core

[R2-2308702](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308702.zip) Measurement report enhancement for NR UAV Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core R2-2306215

[R2-2308707](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308707.zip) Remaining issues on measurement reporting enhancements in NR UAV Samsung Electronics Nordic AB discussion Rel-18 NR\_UAV-Core

[R2-2308797](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308797.zip) Measurement Report Enhancement LG Electronics discussion Rel-18 NR\_UAV-Core

[R2-2308821](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308821.zip) Discussion on measurement reporting enhancements for NR UAV Xiaomi discussion Rel-18 NR\_UAV-Core

[R2-2308832](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308832.zip) Discussion on measurement reporting enhancement for NR UAV vivo discussion NR\_UAV-Core

[R2-2308833](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308833.zip) Discussion on combination event for NR UAV vivo discussion NR\_UAV-Core

### 7.8.3 Flight path reporting

*Contributions on enhancements to flight path reporting*

[R2-2307279](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307279.zip) Consideration on flight path reporting for NR UAV DENSO CORPORATION discussion NR\_UAV-Core

[R2-2307442](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307442.zip) Discussion on Flight Path Reporting NEC discussion Rel-18 NR\_UAV-Core

[R2-2307584](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307584.zip) Even Further Details on Flight Path Plan (FPP) Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2307636](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307636.zip) Flight path reporting enhancements Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2307736](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307736.zip) On flight path reporting ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2307870](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307870.zip) Flight path reporting in UAV Apple discussion Rel-18 NR\_UAV-Core

[R2-2307918](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307918.zip) Discussion on flight path reporting for NR UAV Sharp discussion

[R2-2307997](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307997.zip) Remaining issues of flight path reporting for NR UAV Lenovo discussion Rel-18

[R2-2308299](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308299.zip) Considerations on the remaining issues for flight path reporting CMCC discussion Rel-18 NR\_UAV-Core

[R2-2308467](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308467.zip) UAV Flight Path Reporting Ericsson España S.A. discussion Rel-18

[R2-2308528](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308528.zip) Flightpath update notification for UAV InterDigital discussion Rel-18 NR\_UAV-Core

[R2-2308529](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308529.zip) Flightpath reporting for UAV InterDigital discussion Rel-18 NR\_UAV-Core

[R2-2308653](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308653.zip) Discussion on Flight Path Reporting for NR UAV China Telecom discussion

[R2-2308692](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308692.zip) Discussion on flight path reporting Samsung discussion Rel-18 NR\_UAV-Core

[R2-2308704](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308704.zip) Further discussion on flight path reporting Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core R2-2306216

[R2-2308720](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308720.zip) Discussion on triggering of flight path report ASUSTeK discussion Rel-18 NR\_UAV-Core

[R2-2308798](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308798.zip) Flight Path Information Report LG Electronics discussion Rel-18 NR\_UAV-Core

[R2-2308822](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308822.zip) Discussion on flight path reporting for NR UAV Xiaomi discussion Rel-18 NR\_UAV-Core

[R2-2308834](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308834.zip) Discussion on flight path reporting vivo discussion NR\_UAV-Core

### 7.8.4 Subscription-based aerial-UE identification

Contributions should focus on signaling required to support subscription-based aerial-UE identification

This AI will not be treated and no contributions are expected, as no further NR enhancements will be pursued.

### 7.8.5 UAV identification broadcast

UAV identification broadcast using PC5-U will be treated with higher priority.

[R2-2307443](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307443.zip) Considerations on Enhancements for UAV identification broadcast NEC discussion Rel-18 NR\_UAV-Core

[R2-2307585](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307585.zip) On the Remaining Aspects for Supporting PC5-based BRID and DAA Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2307637](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307637.zip) Remaining aspects of PC5-based BRID and DAA support Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core, LTE\_UAV\_enh-Core

[R2-2307731](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307731.zip) SL configuration for UAV ID/DAA broadcast Samsung discussion Rel-18 NR\_UAV-Core

[R2-2307871](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307871.zip) BRID and DAA support over PC-5 Apple discussion Rel-18 NR\_UAV-Core

[R2-2307998](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307998.zip) Discussion on broadcasting remote id for UAV Lenovo discussion Rel-18

[R2-2308300](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308300.zip) Discussion on UAV identification broadcast CMCC discussion Rel-18 NR\_UAV-Core

[R2-2308468](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308468.zip) UAV Broadcast Identification Ericsson España S.A. discussion Rel-18

[R2-2308560](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308560.zip) Resources for broadcast of BRID and DAA Beijing Xiaomi Mobile Software discussion Rel-18 NR\_UAV-Core

[R2-2308705](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308705.zip) Further discussion on UAV remote identification broadcast Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core R2-2306218

## 7.9 Enhanced NR Sidelink Relay

(NR\_SL\_relay\_enh-Core; leading WG: RAN2; REL-18; WID: RP-223501)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

### 7.9.1 Organizational

Including incoming LSs and rapporteur inputs.

[R2-2307055](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307055.zip) Reply LS on 5G ProSe Layer-2 UE-to-UE Relay QoS enforcement (S2-2305915; contact: Qualcomm) SA2 LS in Rel-18 5G\_ProSe\_Ph2 To:RAN2

[R2-2307057](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307057.zip) Reply LS to SA2 on authorization for multi-path Scenario 2 (S2-2307707; contact: LGE) SA2 LS in Rel-18 NR\_SL\_relay\_enh, 5G\_ProSe\_Ph2 To:RAN2 Cc:RAN3

[R2-2307072](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307072.zip) Reply LS on security for L2 UE-to-UE relay (S3-233323; contact: Lenovo) SA3 LS in Rel-18 NR\_SL\_relay\_enh, FS\_5G\_ProSe\_Ph2 To:RAN2

[R2-2307235](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307235.zip) Running CR of TS 38.351 for SL Relay enhancement OPPO draftCR Rel-18 38.351 17.5.0 B NR\_SL\_relay\_enh-Core

[R2-2307546](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307546.zip) Introduction of NR sidelink U2U relay vivo draftCR Rel-18 38.331 17.5.0 B NR\_SL\_relay\_enh-Core

[R2-2307720](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307720.zip) 38.322 running CR for enhanced NR sidelink relay Xiaomi draftCR Rel-18 38.322 17.3.0 B NR\_SL\_relay\_enh-Core

[R2-2307854](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307854.zip) Draft Running CR 38.321 Apple draftCR Rel-18 38.321 17.5.0 B NR\_SL\_relay\_enh-Core

[R2-2307920](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307920.zip) Draft running CR 38.300 LG Electronics Inc. draftCR Rel-18 38.300 17.5.0 B NR\_SL\_relay\_enh-Core

[R2-2308203](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308203.zip) RRC running CR for Rel-18 multi-path support Huawei, HiSilicon draftCR Rel-18 38.331 17.5.0 B NR\_SL\_relay\_enh-Core

[R2-2308204](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308204.zip) Considerations on Multi-path RRC running CR Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308559](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308559.zip) Introduction of Rel-18 support for SL Relay Enhancements Ericsson España S.A. draftCR Rel-18 38.304 17.5.0 B NR\_SL\_relay\_enh

[R2-2308687](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308687.zip) Introduction of Rel-18 SL relay service continuity MediaTek, Inc CR Rel-18 38.331 17.5.0 4277 - B NR\_SL\_relay\_enh-Core

### 7.9.2 UE-to-UE relay

Single-hop Layer-2 and Layer-3 UE-to-UE relay for unicast. Including common L2/L3 functionality comprising relay discovery and (re)selection and L2-specific functionality including adaptation layer design, control plane procedures, and QoS handling if needed.

[R2-2307233](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307233.zip) Discussion on U2U relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307386](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307386.zip) Discussion on remaining issue of U2U relay NEC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307402](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307402.zip) Discussion on the adaptation layer Fujitsu discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307446](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307446.zip) Discussion on U2U relay Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307547](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307547.zip) Remaining issues on U2U discovery and relay (re)selection vivo discussion

[R2-2307548](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307548.zip) Discussion on the remaining issues of L2 U2U relaying vivo discussion

[R2-2307551](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307551.zip) Discussion on U2U Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307641](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307641.zip) U2U Relay selection reselection, SRAP design Beijing Xiaomi Mobile Software discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307655](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307655.zip) Discussion on using short ID in U2U relaying Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_relay\_enh

[R2-2307716](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307716.zip) Discussion on U2U relay TCL discussion

[R2-2307732](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307732.zip) QoS and bearer configuration for L2 U2U relaying Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307742](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307742.zip) Common part and Layer-2 specific part on U2U Relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2307743](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307743.zip) gNB involvement and capability on U2U relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2307750](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307750.zip) Considerations for U2U L2 relay operations Kyocera discussion Rel-18

[R2-2307855](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307855.zip) Discussion on remaining issues on UE-to-UE Relay Apple discussion Rel-18

[R2-2307932](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307932.zip) Control plane procedure for U2U relay LG Electronics Inc. discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307944](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307944.zip) Further discussion on L2 U2U relay China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307989](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307989.zip) Discussion on L2 U2U relay Lenovo discussion Rel-18

[R2-2308100](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308100.zip) Discussion on U2U Relay discovery and (re)selection ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308101](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308101.zip) Discussion on U2U relay L2-specific functionality ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308104](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308104.zip) SRAP design for U2U Sidelink Relay Samsung discussion

[R2-2308119](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308119.zip) Discussion on UE-to-UE Relay Spreadtrum Communications discussion Rel-18

[R2-2308160](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308160.zip) UE-to-UE relay (re)selection Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2308161](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308161.zip) Discussion on DRX for Sidelink UE to UE Relay Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2308205](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308205.zip) Discussion on UE-to-UE relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308220](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308220.zip) Remaining issues for UE-to-UE relay Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308321](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308321.zip) Discussion on U2U relay CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308368](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308368.zip) Considerations on U2U relay (re)selection and Local ID assignment Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh-Core R2-2305590

[R2-2308380](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308380.zip) Open Issues on Discovery, Relay Selection, and SRAP for UE to UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308381](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308381.zip) QoS and Configuration for L2 UE-to-UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308469](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308469.zip) Discussion on Relay (re)selection and Discovery Ericsson España S.A. discussion Rel-18

[R2-2308470](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308470.zip) Control Plane Procedures for Layer 2 UE-to-UE Relays Ericsson España S.A. discussion Rel-18

[R2-2308611](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308611.zip) Discussion on Adaptation Layer for L2 U2U Relay ETRI discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308721](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308721.zip) Discussion on E2E PC5-RRC procedures ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308722](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308722.zip) Discussion on AS layer configuration for L2 U2U Relay ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

### 7.9.3 Service continuity enhancements for L2 UE-to-network relay

Inter-gNB direct/indirect path switching; intra-gNB indirect/indirect path switching; and inter-gNB indirect/indirect path switching, to be supported by reuse of solutions for the other scenarios.

[R2-2307226](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307226.zip) Discussion on service continuity enhancement Xiaomi discussion

[R2-2307281](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307281.zip) SL Relay service continuity considerations Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307549](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307549.zip) Remaining issues on service continuity enhancement for L2 U2N relay vivo discussion

[R2-2307552](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307552.zip) Further Consideration on Service Continuity Enhancements CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307733](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307733.zip) Discussion on measurement quantity configuration Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307744](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307744.zip) Proposal on additional enhancements for service continuity Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2307856](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307856.zip) Discussion on path switching to IDLE/INACTIVE relay Apple discussion Rel-18

[R2-2307940](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307940.zip) Discussion on Remaining Issues of Service Continuity NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307945](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307945.zip) Discussion on the procedure for intra-gNB indirect to indirect path switch China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307990](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307990.zip) Discussion on enhanced path switching Lenovo discussion Rel-18

[R2-2308102](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308102.zip) Further discussion on service continuity for SL relay ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308162](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308162.zip) Service continuity enhancements for UE sidelink relay Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2308221](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308221.zip) Remaining issues for U2N path switching Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308322](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308322.zip) Discussion on service continuity CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308471](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308471.zip) Discussion on Inter-gNB Service Continuity Ericsson España S.A. discussion Rel-18

[R2-2308584](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308584.zip) Discussion on Service Continuity Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

### 7.9.4 Multi-path relaying

Mechanisms to support multi-path scenarios where a UE is connected to the same gNB using one direct path and one indirect path via 1) Layer-2 UE-to-Network relay, or 2) via another UE (where the UE-UE inter-connection is assumed to be ideal). This agenda item will include a rapporteur contribution summarising open issues from RAN2#121 (invited contribution not counted against the tdoc limit).

Including report of [Post122][403][Relay] Procedures for multi-path relay (LG)

[R2-2307093](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307093.zip) Discussion on multi-path SL relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307182](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307182.zip) Discussion on Multi-path relaying Lenovo discussion NR\_SL\_relay\_enh-Core

[R2-2307227](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307227.zip) Discussion on multi-path Xiaomi discussion

[R2-2307363](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307363.zip) Discussion on non-split SRB OPPO, Samsung, China Telecom, Huawei, HiSilicon, Ericsson, vivo, CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307387](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307387.zip) Discussion on remaining issue of multi-path relay NEC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307403](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307403.zip) Discussions on multi-path Fujitsu discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307550](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307550.zip) Remaining Issues for Multi-path Scenario 1 2 vivo discussion

[R2-2307553](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307553.zip) Discussion on Multi-path CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307656](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307656.zip) Throughput Enhancement in U2N Relaying Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_relay\_enh

[R2-2307719](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307719.zip) Discussion on multi-path scenario 1 III discussion NR\_SL\_relay\_enh-Core

[R2-2307745](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307745.zip) Open issues on multi-path relay for scenario 1 and scenario 2 Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2307751](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307751.zip) Considerations for multipath relay operations for Scenario 1 Kyocera discussion Rel-18

[R2-2307857](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307857.zip) Discussion on Multi-path Relay Apple discussion Rel-18

[R2-2307941](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307941.zip) Discussion on UP Issues of Multi-path relay NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307946](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307946.zip) Discussion on remaining issues of multi-path relaying in Scenario 1 China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307947](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307947.zip) Discussion on remaining issues of multi-path relaying in Scenario 2 China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307973](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307973.zip) Report of [AT121bis-e][419][Relay] Remaining high-priority proposals on multi-path (LG) LG Electronics France report Rel-18 NR\_SL\_relay\_enh

[R2-2307991](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307991.zip) Procedure for second path addition Lenovo discussion Rel-18

[R2-2308103](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308103.zip) Further discussion on the support of multi-path relaying ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308120](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308120.zip) Discussion on multi-path relaying Spreadtrum Communications discussion Rel-18

[R2-2308163](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308163.zip) Multi-path relaying discussion Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2308206](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308206.zip) Remaining issues on multi-path operation Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308222](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308222.zip) Remaining issues for multi-path relay Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308224](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308224.zip) Discussion on remaining issues on multiple path for sidelink relay Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308323](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308323.zip) Discussion on multi-path scenario 1 CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308324](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308324.zip) Considerations on multi-path scenario 2 CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308382](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308382.zip) User Plane Aspects for Multipath InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308383](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308383.zip) Control Plane Aspects for Multipath InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308472](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308472.zip) Discussion on Multipath Relays Ericsson España S.A. discussion Rel-18

[R2-2308723](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308723.zip) BSR reporting for Multi-path Scenario 2 ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308724](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308724.zip) Discussion on duplicate PDCP PDU discarding for Multi-path transmission Scenario 1 ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308749](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308749.zip) On Remaining issues on multipath SL relay Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay\_enh-Core

### 7.9.5 DRX

Study the gains and, if needed, specify signalling between gNB and relay UE in sidelink mode 2 to assist the determination of the sidelink DRX configuration used for remote UE. This agenda item will be handled at lower priority.

[R2-2307228](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307228.zip) Discussion on SL DRX in U2N relay Xiaomi discussion

[R2-2307234](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307234.zip) Discussion on DRX for L2 U2N relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307554](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307554.zip) Discussion on DRX for L2 U2N Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2307858](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307858.zip) Discussion on SL DRX for L2 UE-to-NW relay Apple discussion Rel-18 R2-2305065

[R2-2308207](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308207.zip) Discussion on sidelink DRX for L2 U2N relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2308369](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308369.zip) Considerations on DRX and paging for sidelink relay Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh-Core R2-2305592

## 7.10 IDC enhancements for NR and MR-DC

(NR\_IDC\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221281)

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

Corrections. For smaller corrections please contact CR editor / Rapporteur directly.

[R2-2307544](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307544.zip) Further Considertion on the IDC reporting ZTE Corporation, Sanechips discussion Rel-18 NR\_IDC\_enh-Core

[R2-2307651](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307651.zip) IDC Enhancements Qualcomm Incorporated discussion Rel-18

[R2-2307767](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307767.zip) UE interface for IDC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_IDC\_enh-Core

[R2-2307909](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307909.zip) draft \_Correction to 38.300 running CR on IDC Ericsson draftCR Rel-18 38.300 17.5.0 B NR\_IDC\_enh-Core

[R2-2307919](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307919.zip) Corrections on IDC assistant information Sharp discussion

[R2-2308225](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308225.zip) Discussion on IDC problem over sidelink Samsung, Ericsson discussion Rel-18 NR\_IDC\_enh-Core

[R2-2308583](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308583.zip) Corrections for 38.331 Running CR for IDC Enhancements Huawei, HiSilicon discussion Rel-18 NR\_IDC\_enh-Core

[R2-2308676](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308676.zip) TS 38.331 Clarification on the candidateBandwidth field vivo CR Rel-18 38.331 17.5.0 4272 - F NR\_IDC\_enh-Core

## 7.11 Enhancements of NR Multicast and Broadcast Services

(NR\_MBS\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221458)

Time budget: 0.75 TU

Tdoc Limitation: 3 tdocs

### 7.11.1 Organizational

LS in, rapporteur input, running CRs etc.

MBS UE capabilities CRs rapporteur is requested to provide an initial analysis of the required UE capabilities and identification of the related discussion points.

[R2-2307015](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307015.zip) Reply LS on multicast reception in RRC\_INACTIVE (R1-2306243; contact: Apple) RAN1 LS in Rel-18 NR\_MBS\_enh-Core To:RAN2

[R2-2307112](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307112.zip) Initial Consideration on UE Capability of eMBS vivo discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307492](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307492.zip) RRC running CR for eMBS Huawei, HiSilicon draftCR Rel-18 38.331 17.5.0 B NR\_MBS\_enh-Core

### 7.11.2 Multicast reception in RRC\_INACTIVE

Objective: Specify support of multicast reception by UEs in RRC\_INACTIVE state [RAN2, RAN3], PTM configuration for UEs receiving multicast in RRC\_INACTIVE state [RAN2]. Study the impact of mobility and state transition for UEs receiving multicast in RRC\_INACTIVE. (Seamless/lossless mobility is not required) [RAN2, RAN3].

Papers should not be submitted to 7.11.2, please use 7.11.2.1 or 7.11.2.2 instead.

#### 7.11.2.1 Control plane

Including aspects such as:

- PTM configuration structure (exact parameters etc.)

- details of multicast MCCH configuration and MCCH handling by the UE

- service continuity during mobility and state transitions (e.g. access control for connection resume due to MBS, resume due to bad reception quality etc.)

- details of notifications/group paging enhancements due to session activation/deactivation/temporary no data

- details of frequency prioritization and multicast NCL

- UE capabilities

[R2-2307084](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307084.zip) Control plane for multicast reception in RRC\_INACTIVE state TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2307085](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307085.zip) MCCH change notification for multicast sessions in RRC\_INACTIVE state TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2307109](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307109.zip) Discussion on eMBS from the CP Perspective vivo discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307135](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307135.zip) Control plane discussion for multicast reception in RRC INACTIVE MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307155](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307155.zip) Discussion on security issue with multicast MCCH CANON Research Centre France discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307263](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307263.zip) Discussion on Control Plane for Multicast Reception in RRC\_INACTIVE CATT, CBN discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307412](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307412.zip) Consideration on the control plane issue for multicast reception in RRC\_INACTIVE Beijing Xiaomi Software Tech discussion

[R2-2307459](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307459.zip) Discussion on control plane for Multicast reception in RRC\_INACTIVE NEC Corporation discussion NR\_MBS\_enh-Core

[R2-2307493](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307493.zip) CP issues for multicast reception for RRC INACTIVE UE Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307594](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307594.zip) CP aspects for Multicast reception in RRC\_INACTIVE Samsung R&D Institute India discussion

[R2-2307638](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307638.zip) Service continuity, RRC state transitions and notifications Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307768](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307768.zip) Control plane details for multicast reception in RRC\_INACTIVE state Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307779](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307779.zip) RRC Resume for Multicast in RRC\_INACTIVE SHARP Corporation discussion R2-2306049

[R2-2307843](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307843.zip) Control plane aspects for multicast reception in RRC INACTIVE Apple discussion Rel-18 DUMMY

[R2-2307895](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307895.zip) Discussion on SDT and MBS multicast reception in RRC\_INACTIVE ITRI discussion NR\_MBS\_enh-Core

[R2-2308013](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308013.zip) Control plane aspects of Multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2308109](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308109.zip) Control plane aspects on multicast reception in RRC INACTIVE Kyocera discussion Rel-18 R2-2306147

[R2-2308133](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308133.zip) Discussion on Service Continuity and RRC state transitions Spreadtrum Communications discussion Rel-18

[R2-2308200](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308200.zip) PTM configuration and session deactivation LG Electronics Inc. discussion Rel-18

[R2-2308201](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308201.zip) Multicast servic continuity LG Electronics Inc. discussion Rel-18

[R2-2308304](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308304.zip) Discussion on multicast reception in RRC\_INACTIVE CP issues CMCC discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308343](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308343.zip) Multicast reception in RRC\_INACTIVE ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308552](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308552.zip) MBS multicast and UE power saving Ericsson discussion Rel-18 NR\_MBS\_enh-Core R2-2305917

[R2-2308558](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308558.zip) Connection resumption triggering for more reliable MBS reception InterDigital Inc. discussion Rel-18 NR\_MBS\_enh-Core

R2-2308568 Ensuring desired level of reliability for an MBS session in RRC\_INACTIVE Interdigital Inc. discussion Rel-18 NR\_MBS\_enh-Core Withdrawn

[R2-2308649](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308649.zip) MCCH Monitoring and Configuration of UE with Multicast reception in RRC\_INACTIVE SHARP Corporation discussion

[R2-2308652](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308652.zip) Support of SDT and Multicast in RRC\_INACTIVE configured together SHARP Corporation discussion

[R2-2308850](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308850.zip) PTM configuration for eMBS Shanghai Jiao Tong University, NERCDTV discussion

[R2-2308889](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308889.zip) Multicast reception in RRC\_INACTIVE Ericsson discussion Rel-18 NR\_MBS\_enh-Core

#### 7.11.2.2 User plane

Including aspects such as:

- CFR configuration

- MAC operation (e.g. DRX, scheduling)

- L2 operation during state transitions and mobility (e.g. MRBs establishment/release etc.)

- further discussion on PHY layer impacts (considering the LS in from RAN1 in R1-2306243) etc.

R2-2307086 User plane for multicast reception in RRC\_INCTIVE stat TD Tech, Chengdu TD Tech discussion Rel-18 Withdrawn

[R2-2307110](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307110.zip) Discussion on eMBS from the UP Perspective vivo discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307136](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307136.zip) L2 operation during state transitions and mobility for R18 multicast MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307146](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307146.zip) User plane aspects for eMBS NEC discussion NR\_SL\_enh2

[R2-2307148](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307148.zip) User plane for multicast reception in RRC\_INCTIVE state TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2307264](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307264.zip) Discussion on User Plane for Multicast reception in RRC\_INACTIVE CATT, CBN discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307494](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307494.zip) UP issues for multicast reception for RRC INACTIVE UE Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307639](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307639.zip) Further views on multicast CFR configuration aspects Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307758](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307758.zip) UP Aspects for Multicast Reception in RRC\_INACTIVE Samsung discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307844](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307844.zip) User plane aspects for multicast reception in RRC\_INACTIVE Apple discussion Rel-18 DUMMY

[R2-2307984](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307984.zip) User plane aspects of multicast reception in RRC\_INACTIVE state Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308014](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308014.zip) User plane aspects of Multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2308305](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308305.zip) Discussion on multicast reception in RRC\_INACTIVE UP issues CMCC discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308344](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308344.zip) CFR design for Multicast reception in RRC\_INACTIVE ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh-Core R2-2305663

[R2-2308535](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308535.zip) MBS remaining issues on DRX Ericsson discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308594](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308594.zip) Discussion on UP issues for Multicast in RRC Inactive LG Electronics Inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308853](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308853.zip) Discussion and draft TP on the PDCP operation for the support of multicast reception in RRC\_INACTIVE state Beijing Xiaomi Software Tech discussion Rel-18

### 7.11.3 Shared processing for MBS broadcast and Unicast reception

Objective: Specify Uu signalling enhancements to allow a UE to use shared processing for MBS broadcast and unicast reception, i.e., ‎including UE capability and related assistance information reporting regarding simultaneous unicast reception in RRC\_CONNECTED and MBS broadcast reception from the same or different operators [RAN2]

Including aspects such as:

- what exact parameters should be reported

- whether/how to address the case where additional information cannot be read by the UE from the non-serving cell

- whether any special handling is needed when the non-serving cell updates the configuration which is relevant for MII

[R2-2307111](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307111.zip) Further Discussion on Shared Processing in eMBS vivo discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307265](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307265.zip) Remaining Issues on Shared Processing CATT, CBN discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307460](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307460.zip) Discussion on shared process for MBS broadcast and unicast NEC Corporation discussion NR\_MBS\_enh-Core

[R2-2307495](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307495.zip) Discussion on shared processing for MBS broadcast and unicast reception Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307596](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307596.zip) Rel-18 MII Enhancements Samsung R&D Institute India discussion

[R2-2307640](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307640.zip) Shared processing for MBS broadcast and Unicast reception Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2307675](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307675.zip) Discussion on the reporting signaling for shared MBS capability Xiaomi discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308306](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308306.zip) Discussion on shared processing CMCC discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308345](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308345.zip) Non-serving cell configuration update in case of shared processing ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh-Core

[R2-2308744](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308744.zip) Additional scenarios for shared processing Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

## 7.12 Mobile IAB (Integrated Access and Backhaul) for NR

( NR\_mobile\_IAB -Core; leading WG: RAN3; REL-18; WID: RP-221815)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

### 7.12.1 Organizational

Ls in Rapporteur input etc

Current meeting: Should discuss/review Running CRs and the CR impact. CR Rapporteurs are encouraged to drive (for Mob Enh we are still lacking some RAN2 agreements).

Work Plan

[R2-2307602](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307602.zip) Updated workplan for Rel-18 mobile IAB Qualcomm Inc. (Rapporteur) Work Plan Rel-18 NR\_mobile\_IAB

* Noted

CRs

* Review Running CRs in post meeting email discussion

38340 BAP

[R2-2307269](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307269.zip) Running CR for introduction of mobile IAB in TS 38.340 Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

38300 Stage-2

[R2-2307603](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307603.zip) BL CR to TS 38.300 on Introduction to mobile IAB Qualcomm Inc. CR Rel-18 38.300 17.5.0 0692 - B NR\_mobile\_IAB

38304

[R2-2308080](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308080.zip) Draft CR of TS 38.304 for Rel-18 mIAB Intel Corporation draftCR Rel-18 38.304 17.5.0 B NR\_mobile\_IAB

38331 RRC

[R2-2308447](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308447.zip) RRC running CR for mobile IAB Ericsson draftCR Rel-18 38.331 17.5.0 B NR\_mobile\_IAB-Core

UE capabilites

[R2-2308823](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308823.zip) 38.306 running CR for mobile IAB capabilities Nokia, Nokia Shanghai Bell draftCR Rel-18 38.306 17.5.0 B NR\_mobile\_IAB-Core

[R2-2308824](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308824.zip) 38.331 running CR for mobile IAB capabilities Nokia, Nokia Shanghai Bell draftCR Rel-18 38.331 17.5.0 B NR\_mobile\_IAB-Core

Potential MAC impact

[R2-2308452](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308452.zip) Initial IAB MAC rapporteur views on potential MAC impact of RACH-less HO for mIAB Samsung discussion

### 7.12.2 Mobility Enhancements

Enhancements for mobility of an IAB-node together with its served UEs.. [RAN3, RAN2]

#### 7.12.2.1 Connected mode

Continue from last meeting. feasibility of RACH-less HO and the related way forward. Other aspects of Connected mode mobility enhancements.

RACH-less

[R2-2307604](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307604.zip) Enhancements for mobile IAB connected mode mobility Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

DISCUSSION

- Nokia ack QC observations, think there are some delays.

- Nokia think mIAB should not have its own solution. LG agrees can minimize the difference.

- AT&T support RACH-less, open for alignment with NTN, Samsung agrees.

- Samsung think CR editors should review and take into account NTN progress in the light of mIAB.

- Xiaomi wonder about TA handling. QC clarifies that this is indeed different for mIAB and it was agreed last meeting to support TA = same as source for mIAB.

* RACH-less HO to be supported for UEs connected to a mIAB node (intended case: DU migration)
* RACH-less HO for mIAB is expected to reuse most parts from other WI, such as NTN.
* R2 assumes that RACH-less HO for mIAB can largely adopt the steps of the agreed NTN RACH-less HO procedure:

1. Receive a RACH-less HO command which can include pre-allocated grant optionally

2. Start time T304 for the target cell (RRC)

3. Perform DL and UL synchronization.

4. Start time alignment timer (MAC)

5. Monitor target cell PDCCH for dynamic grant if pre-allocated grant is not configured in RACH-less HO command (MAC, PHY)

6. Send initial UL transmission including RRCReconfigurationComplete message using the available UL grant (RRC, MAC, PHY)

7. Consider RACH-less HO is completed upon receiving NW configuration.

8. Stop timer T304 for the target cell (RRC).

[R2-2308097](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308097.zip) Discussion on mobility enhancement for UE in connected mode ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308078](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308078.zip) Mobile IAB mobility enhancement for connected UEs Intel Corporation discussion Rel-18 NR\_mobile\_IAB

[R2-2308940](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308940.zip) Discussion on RACH-less handover Xiaomi discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2307910](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307910.zip) Discussion on mobility enhancements for mobile IAB NEC Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308603](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308603.zip) Way forward for RACH-less HO in mobile IAB Nokia, Nokia Shanghai Bell, LG Electronics Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308444](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308444.zip) Remaining issues for supporting RACH-less in mobile IAB Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

**CHO**

[R2-2308778](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308778.zip) Enhancements for IAB-node mobility and onboard UEs AT&T discussion

[R2-2308513](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308513.zip) Conditional handover enhancement for mobile IAB Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

General

[R2-2307820](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307820.zip) CONNECTED mobility enhancement in mobile IAB Apple discussion NR\_mobile\_IAB-Core

[R2-2308894](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308894.zip) Discussion on mIAB mobility enhancements Samsung Electronics Czech discussion Rel-18 NR\_mobile\_IAB

[R2-2308682](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308682.zip) On the need of group mobility and other enhancements LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308571](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308571.zip) CHO and RACH-less HO for mobile IAB Scenario InterDigital Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308006](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308006.zip) Mobility enhancements for mobile IAB-node and its connected UE Lenovo discussion Rel-18

[R2-2307270](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307270.zip) Connected mode enhancement for mobile IAB Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308731](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308731.zip) Connected mode mobility for mobile IAB CATT discussion Rel-18 NR\_mobile\_IAB

Further Enhancements

[R2-2307822](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307822.zip) UE on-board status identification and reporting Apple, Huawei, HiSilicon, Lenovo, CATT, InterDigital Inc. discussion NR\_mobile\_IAB-Core

[R2-2308569](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308569.zip) Connected mode mobility enhancements for mobile IAB Interdigital Inc. discussion Rel-18 NR\_mobile\_IAB-Core

#### 7.12.2.2 Idle/Inactive mode

Misc low-complexity enhancements, if any. Continue the discussion on SIB indication to UEs for enhancements of cell reselection, primarily inter-frequency cell reselection. Still assume to agree on UE behaviour before determining whether to have the SIB indication.

[R2-2307821](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307821.zip) Discussion on IDLE/INACTIVE UE mobility enhancement Apple discussion NR\_mobile\_IAB-Core

P1

- LG think the determination whether to prioritize or not can be left for impl.

- Samsung think the pull-in problem is not an issue can be done with current procedures, but would like to prioritize the scenario that a UE can prioritize mIAB cell once camped there. Nokia agrees.

- Intel think the pull-in issue is the main one, and would like to have a specified solution.

- QC think we agreed last meeting and we should stick to that.

- CATT think we can confirm the WA.

- ZTE think onboard detection can be up to UE impl.

P3

- ZTE and HW think we should not consider this. ZTE point out that network may then need to update SI a lot.

- Intel support this.

- Chair think that such SI could be somewhat static, but anyway be useful for UE search.

* Confirm the WA for inter-frequency cell reselection (scenarios: For a UE that is “on-board”, irrespective whether it is camped on the mobile IAB cell or a stationary cell, it can prioritize another frequency for which a mobile IAB cell is the best cell).
* No enhancement is needed for intra-frequency and equal-priority cell reselection.
* The procedure that UE searches and measure for mIAB cells on different frequencies is unspecified. RAN2 assumes that As assistance information, the NW can optionally provide inter-frequency mIAB list in SIB4, details FFS.
* It is left to UE implementation to determine whether the UE is physically on a moving vehicle and when it applies mobile IAB cell reselection prioritization for agreed scenarios.

Chair Comment: The last agreement is different to and supersedes earlier agreements that states that RAN2 shall specify on-board criterion.

[R2-2307738](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307738.zip) Discussion on Mobile IAB mobility enhancements vivo discussion Rel-18

[R2-2307184](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307184.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307184.zip) Discussion on mobility enhancements for mobile IAB CANON Research Centre France discussion Rel-18

[R2-2307271](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307271.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307271.zip) Idle/Inactive mode mobility enhancement for mobile IAB Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2307605](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307605.zip) Enhancements for mobile IAB idle and inactive mode mobility Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

[R2-2308079](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308079.zip) UE cell (re)selection towards mobile IAB cell Intel Corporation discussion Rel-18 NR\_mobile\_IAB

[R2-2308098](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308098.zip) Discussion on mobility enhancement for UE in idle or inactive mode ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308110](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308110.zip) IDLE/INACTIVE mode mobility enhancements for mobile IAB Kyocera discussion Rel-18 R2-2306150

[R2-2308164](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308164.zip) Mobile IAB cell indication to UE behaviour Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2308445](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308445.zip) Behaviour for RRC\_IDLE and RRC\_INACTIVE UEs under a mIAB node Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308446](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308446.zip) Indication of DU-migration to UEs in IDLE and INACTIVE Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308514](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308514.zip) Cell reselection for UEs on board mobile IAB Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308570](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308570.zip) IDLE/INACTIVE mobility enhancements for mobile IAB Interdigital Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308581](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308581.zip) UE cell reselection prioritization for mobile IAB Sharp discussion Rel-18

[R2-2308683](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308683.zip) Cell reselection enhancement and text proposal LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308684](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308684.zip) Access restiction for mIAB cell LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308732](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308732.zip) Idle mode mobility for mobile IAB (with TP to TS38.304/TS38.331) CATT other Rel-18 NR\_mobile\_IAB

### 7.12.3 Other

Procedures for migration/topology adaptation to enable IAB-node mobility [RAN3, RAN2]. Mitigation of interference due to IAB-node mobility. [RAN3, RAN2].

General

Treat BAP proposals offline.

Offline 017 BAP proposals (HW)

- HW reports that from the papers CATT has one agreeable proposal, rest are stage-3 details to be handled in the email discussion on running CR.

[R2-2308733](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308733.zip) BAP configuration impacts (with TP to TS38.340) CATT, Huawei, Qualcomm Incorporated other Rel-18 NR\_mobile\_IAB

* 1a: When both donor-CUs configure the F1AP BAP configuration (i.e., the BH RLC) for BAP control PDU, it’s up to mobile IAB-node’s implementation which configuration is used.

[R2-2308007](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308007.zip) Discussion on BAP and PCI collision issues for mobile IAB Lenovo discussion Rel-18

[R2-2308049](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308049.zip) BAP specification impact of redundant entries Samsung discussion

[R2-2308099](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308099.zip) Discussion on remaining issues for mobile IAB ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2308165](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308165.zip) PCI collision in mobile IAB Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2308451](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308451.zip) Interference mitigation and PCI collision Samsung discussion

* All noted

Further enhancements

[R2-2307272](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307272.zip) RNAU issues for mobile IAB Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

Withdrawn

R2-2307606 Topology adaptation for mobile IAB-node Qualcomm Inc. discussion Rel-18 NR\_netcon\_repeater Withdrawn

## 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)

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

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

### 7.13.1 Organizational

Ls in Rapporteur input.

[R2-2307022](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307022.zip) LS on MRO for CPC and CPA and fast MCG recovery (R3-230992; contact: Huawei) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2307023](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307023.zip) LS on potential override of logged MDT reports upon moving from SNPN to PLMN (R3-232118; contact: Ericsson) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2307024](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307024.zip) LS on intra-system inter-RAT SHR and SPR (R3-232140; contact: Huawei) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2307025](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307025.zip) Reply LS on RACH enhancement for R18 SONMDT (R3-232144; contact: Huawei) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2307030](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307030.zip) LS on SHR and SPR (R3-233380; contact: Samsung) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2307069](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307069.zip) Reply LS on user consent of Non-public Network (S3-231399; contact: Vodafone) SA3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN3 Cc:RAN2, SA5

R2-2308428 LTE Running CR for Rel-18 SON MRO Ericsson CR Rel-17 36.331 17.5.0 4942 - B NR\_ENDC\_SON\_MDT\_enh2-Core Withdrawn

R2-2308429 Running CR for Rel-18 SON MRO Ericsson CR Rel-17 38.331 17.5.0 4251 - B NR\_ENDC\_SON\_MDT\_enh2-Core R2-2305986 Withdrawn

[R2-2308458](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308458.zip) LTE Running CR for Rel-18 SON MRO Ericsson CR Rel-18 36.331 17.5.0 4943 - B NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308459](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308459.zip) Running CR for Rel-18 SON MRO Ericsson CR Rel-18 38.331 17.5.0 4253 - B NR\_ENDC\_SON\_MDT\_enh2-Core R2-2305986

[R2-2308501](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308501.zip) Running 36.331 CR for SN RACH report ZTE Corporation, Sanechips CR Rel-18 36.331 17.5.0 4944 - B NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308502](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308502.zip) Running 38331 CR for SON on RACH report ZTE Corporation, Sanechips CR Rel-18 38.331 17.5.0 4256 - B NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308623](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308623.zip) Running 38.331 CR for logged MDT enhancements and NPN Huawei, HiSilicon draftCR Rel-18 38.331 17.5.0 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308624](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308624.zip) Running 36.331 CR for logged MDT enhancements Huawei, HiSilicon draftCR Rel-18 36.331 17.5.0 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308801](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308801.zip) Discussion on RAN2 impacts due to the LS R3-233380 Samsung, CMCC, Qualcomm discussion

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

[R2-2308240](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308240.zip) MRO for inter-system handover for voice fallback Samsung discussion

[R2-2308423](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308423.zip) Discussion on voice fallback HO failure Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.3 MDT override

[R2-2307411](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307411.zip) Considerations on MDT override enhancement for E-UTRAN Beijing Xiaomi Software Tech discussion

[R2-2308503](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308503.zip) Consideration on MDT override remaining issues ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.4 SHR and SPCR

[R2-2307283](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307283.zip) Reply LS proposal to [R2-2307030](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307030.zip)/R3-233380 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307284](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307284.zip) Inter-RAT SHR and SPR related issues Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307430](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307430.zip) Remaining issues on SPR vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2307707](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307707.zip) Further discussion on SPR CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308015](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308015.zip) Discussion on inter-RAT SHR from NR to LTE Lenovo discussion Rel-18

[R2-2308016](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308016.zip) SON enhancements for SPR Lenovo discussion Rel-18

[R2-2308425](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308425.zip) Discussion on inter-RAT SHR and SPR Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308496](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308496.zip) SON/MDT enhancements for SHR and SPR Samsung discussion

[R2-2308504](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308504.zip) Consideration on SHR and SPR remaining issues ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308620](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308620.zip) Remain issues on SPR SHARP Corporation discussion

[R2-2308629](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308629.zip) Discussion on voice fallback, SHR and SPR Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.5 SON for NR-U

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

[R2-2307708](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307708.zip) SON Enhancement for NR-U CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308017](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308017.zip) Discussion on MRO for NR-U Lenovo discussion Rel-18

[R2-2308325](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308325.zip) SONMDT enhancement for NR-U CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308473](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308473.zip) SON/MDT enhancements for NR-U Samsung discussion

[R2-2308505](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308505.zip) Consideration on NR-U related SON ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308625](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308625.zip) Discussion on NR-U Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308897](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308897.zip) Enhancements of SON reports for NR-U Ericsson discussion

[R2-2308899](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308899.zip) [Post122][590][R18 SON/MDT] Open issues of SON NR-U (Ericsson) Ericsson discussion

### 7.13.6 RACH enhancement

[R2-2307285](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307285.zip) Discussion on RACH enhancement for SON Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307408](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307408.zip) Consideration on the SON enhancements for RACH report Beijing Xiaomi Software Tech discussion Rel-18

[R2-2307709](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307709.zip) RACH enhancement for SON CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307797](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307797.zip) Discussion on RACH enhancements ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307825](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307825.zip) RACH enhancements for slicing Apple discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308241](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308241.zip) SON/MDT enhancements for RACH Samsung discussion

[R2-2308291](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308291.zip) Further Considerations on RACH Enhancement CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308427](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308427.zip) RA report enhancement Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308626](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308626.zip) Discussion on RACH enhancement Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308654](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308654.zip) Further Discussion on RACH Partitioning for SON China Telecom discussion

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

[R2-2307286](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307286.zip) Discussion on open NPN issues in SON/MDT Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307409](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307409.zip) Discussion on the SONMDT enhancement for NPN Beijing Xiaomi Software Tech discussion

[R2-2307410](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307410.zip) Discussion on the “LS on potential override of logged MDT reports upon moving from SNPN to PLMN” from RAN3 (R3-232118) Beijing Xiaomi Software Tech discussion

[R2-2307431](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307431.zip) Discussion on SON enhancements for NPN vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2307710](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307710.zip) SON and MDT Enhancement for NPN CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307798](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307798.zip) Discussion on SON-MDT support for NPN ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307826](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307826.zip) Out-of-coverage in NPN Apple discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308245](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308245.zip) SON/MDT enhancements for NPN Samsung discussion

[R2-2308426](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308426.zip) SON Support for NPN Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308627](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308627.zip) Discussion on SONMDT enhancements for NPN Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.8 Other

[R2-2307287](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307287.zip) MRO enhancements for Fast MCG recovery and for MR-DC CPAC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307288](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307288.zip) Improvement of handling of timeConnFailure Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307432](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307432.zip) Discussion on MRO for CPAC vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2307679](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307679.zip) Discussion on CPAC failure report NTT DOCOMO, INC. discussion Rel-18

[R2-2307680](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307680.zip) Discussion on fast MCG recovery failure NTT DOCOMO, INC. discussion Rel-18

[R2-2307711](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307711.zip) Discussion on Fast MCG recovery MRO Enhancement CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2307712](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307712.zip) Discussion on MHI Enhancement for SCG Deactivation/Activation CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308018](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308018.zip) SON enhancements for CPAC Lenovo discussion Rel-18

[R2-2308019](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308019.zip) MRO for fast MCG link recovery Lenovo discussion Rel-18

[R2-2308326](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308326.zip) Summary of [Post122][584][R18 SON/MDT] Open issues on fast MCG recovery CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308327](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308327.zip) SON MDT enhancement for MR-DC CPAC CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308328](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308328.zip) MHI Enhancement for SCG Activation/Deactivation CMCC, Ericsson, CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308424](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308424.zip) Discussion on Fast MCG recovery and SCG failure optimization Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308490](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308490.zip) Fast MCG Link Recovery Optimization Samsung discussion

[R2-2308506](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308506.zip) Consideration on other SON issues ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308621](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308621.zip) Discussion on MRO for CPAC SHARP Corporation discussion

[R2-2308622](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308622.zip) MRO for fast MCG recovery SHARP Corporation discussion

[R2-2308628](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308628.zip) Discussion on Fast MCG recovery and CPAC Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2308630](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308630.zip) Discussion on UE capability Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

## 7.14 Enhancement on NR QoE management and optimizations for diverse services

(NR\_QoE\_enh-Core; leading WG: RAN3; REL-18; WID: RP-223488)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.14.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan)

Running CR rapporteurs of 37.340 (Nokia), 38.300 (China Unicom) and NR RRC (Ericsson) specifications are requested to provide first/updated versions running CRs as rapporteur input (which are not counted against the Tdoc limits)

Including UE capability rapporteur proposal for starting point of UE capability discussions

[R2-2307074](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307074.zip) Reply LS on buffer level threshold-based RVQoE reporting (S4-231119; contact: Apple) SA4 LS in Rel-18 NR\_QoE\_enh-Core To:RAN2, RAN3

[R2-2307966](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307966.zip) Running CR for QoE measurements Ericsson draftCR Rel-18 38.331 17.5.0 NR\_QoE\_enh-Core

[R2-2308231](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308231.zip) 37.340 Running CR to support QoE in NR-DC Nokia, Nokia Shanghai Bell draftCR Rel-18 37.340 17.5.0 B NR\_QoE\_enh-Core

[R2-2308869](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308869.zip) Revised Work Plan for Rel-18 NR QoE Enhancement China Unicom Work Plan NR\_QoE\_enh-Core

[R2-2308872](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308872.zip) 38.300 running CR for R18 QoE enhancement in NR China Unicom, Huawei, HiSilicon draftCR Rel-18 38.300 17.5.0 NR\_QoE\_enh-Core R2-2302307

### 7.14.2 QoE measurements in RRC\_IDLE INACTIVE

Including any further discussion on area scope handling for MBS QoE

Including discussion on AS layer signalling details and UE indication to network on report availability

[R2-2307618](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307618.zip) Discussion on support of QoE measurements in RRC\_IDLE and RRC\_INACTIVE Lenovo discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307746](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307746.zip) Open issues on QoE collection for IDLE and Inactive state Qualcomm Incorporated discussion NR\_QoE\_enh-Core

[R2-2307793](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307793.zip) Discussion on QoE measurement in IDLE and INACTIVE ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307834](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307834.zip) QoE Measurements Discarding in IDLE/INACTIVE States Apple discussion NR\_QoE\_enh-Core

[R2-2307926](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307926.zip) Discussion on QoE measurement in RRC\_IDLE and RRC\_INACTIVE Samsung discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307967](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307967.zip) QoE measurements in RRC\_INACTIVE and RRC\_IDLE Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308232](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308232.zip) QoE for RRC IDLE and RRC INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308312](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308312.zip) Discusson on QoE in RRC\_IDLE and RRC\_INACTIVE CMCC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308354](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308354.zip) Discussion on QoE measurements in RRC IDLE/INACTIVE Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308361](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308361.zip) Discussion on QoE measurements in RRC IDLE and INACTIVE state CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308871](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308871.zip) Discussion on QoE measurements in RRC\_IDLE and INACTIVE states China Unicom discussion NR\_QoE\_enh-Core

### 7.14.3 Rel-17 leftover topics for QoE

Including discussion on Rel-17 leftover topics as agreed in previous meetings.

Including discussion on buffer level threshold based triggering (e.g. how do the RAN3 decisions impact RAN2 specifications)

[R2-2307473](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307473.zip) Discussion on buffer level threshold based triggering NEC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307747](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307747.zip) Discussion on QoS flow ID(s) reporting and threshold-based Buffer Level reporting Qualcomm Incorporated discussion NR\_QoE\_enh-Core

[R2-2307794](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307794.zip) Discussion on Rel-17 leftover issues for QoE ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307835](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307835.zip) Views on Buffer Level Threshold Based RVQoE Reporting Apple discussion NR\_QoE\_enh-Core

[R2-2307927](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307927.zip) Discussion on buffer level threshold based triggering Samsung discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307969](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307969.zip) Event based RVQoE reporting Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308233](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308233.zip) Discussion on Rel-17 leftovers Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308313](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308313.zip) Discusson on Rel-17 leftover topics for QoE CMCC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308356](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308356.zip) Discussion on Rel-17 left-over issues Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308362](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308362.zip) Discussion on Rel-17 leftover topics for QoE CATT discussion Rel-18 NR\_QoE\_enh-Core

### 7.14.4 Support of QoE measurements for NR-DC

Including discussion on how the QoE report transmission is handled (e.g. if the QoE report is not configured to use the currently configured SRB, whether this works if SCG is deactivated/released, what do the RAN3 agreements state on this, etc.)

Including discussion on how MN knows to corrrectly forward SN-associated QoE reports received via SRB4

Including discussion on RRC configuration of QoE reporting and measurements for NR-DC

[R2-2307474](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307474.zip) Discussion on QoE measurements for MR-DC NEC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307748](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307748.zip) Open issues to support QoE collection in NR-DC Qualcomm Incorporated discussion NR\_QoE\_enh-Core

[R2-2307795](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307795.zip) Discussion on QoE measurement for NR-DC ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307836](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307836.zip) Discussions on QoE Reporting for NR-DC Apple discussion NR\_QoE\_enh-Core

[R2-2307928](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307928.zip) Discussion on QoE measurement in NR-DC Samsung discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307968](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307968.zip) QoE measurements in NR-DC Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308234](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308234.zip) On QoE configuration and reporting in NR-DC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308314](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308314.zip) Discussion on QoE in NR-DC CMCC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308355](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308355.zip) Discussion on QoE measurements in NR-DC Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308363](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308363.zip) Discussion on support of QoE measurement for NR-DC CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308870](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308870.zip) Discussion on QoE configuration and reporting for NR-DC China Unicom discussion NR\_QoE\_enh-Core

### 7.14.5 UE capabilities and other topics

Including discussion on the continuity of legacy QoE measurement job for streaming and MTSI service during intra-5GC inter-RAT handover process (deprioritized if input from RAN3 is not received during the meeting).

Including any other QoE enhancement discussion (e.g. service type aspects).

Including discussion on UE capability aspects of the QoE WI (e.g. support of MBS QoE and corresponding UE memory size requirements, support of SRB5, support of buffer level threshold based triggering in AS, alignment between AS and AL capabilities, etc.)

[R2-2307749](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307749.zip) Discussion on UE QoE capabilities Qualcomm Incorporated discussion NR\_QoE\_enh-Core

[R2-2307796](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307796.zip) Discussion on Rel-18 other QoE enhancement ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307837](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307837.zip) Views on UE Capabilities for Rel-18 QoE Apple discussion NR\_QoE\_enh-Core

[R2-2307929](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307929.zip) Discussion on QoE measurement continuity during inter-RAT handover Samsung discussion Rel-18 NR\_QoE\_enh-Core

[R2-2307970](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307970.zip) Outstanding issue and UE capabilities for QoE Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308235](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308235.zip) Inter-RAT QoE continuity and UE capabilities Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308315](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308315.zip) Discussion on QoE UE capabilities CMCC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2308357](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308357.zip) Discussion on UE capabilities for QoE enhancements Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

## 7.15 NR Sidelink evolution

(NR\_SL\_enh2; leading WG: RAN1; REL-18; WID: RP-230077)

Time budget: 1 TU

Tdoc Limitation: 5 tdocs

### 7.15.1 Organizational

Includes Incoming LS, WI rapporteur inputs, and stage-2 and stage-3 running CRs from the assigned CR rapporteurs.

[R2-2307060](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307060.zip) Reply LS on carrier mapping for unicast SL CA (S2-2307794; contact: LGE) SA2 LS in Rel-18 NR\_SL\_enh2 To:RAN2 Cc:CT1

[R2-2307087](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307087.zip) Work plan of R18 SL-Evo OPPO, LG Work Plan Rel-18 NR\_SL\_enh2

[R2-2307088](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307088.zip) Running CR of TS 38.331 for SL Evolution OPPO draftCR Rel-18 38.331 17.5.0 B NR\_SL\_enh2 Late

[R2-2307200](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307200.zip) Stage-3 Running CR of TS 38.321 for SL Evolution LG Electronics Inc. CR Rel-18 38.321 17.5.0 1635 - B NR\_SL\_enh2 Late

[R2-2307976](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307976.zip) Further Discussion on SA2 Reply LS on SL CA vivo discussion Rel-18

[R2-2308519](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308519.zip) Rapporteur Revision to Stage 2 Running CR of TS 38.300 for SL Evolution InterDigital France R&D, SAS draftCR Rel-18 38.300 17.5.0 F NR\_SL\_enh2

### 7.15.2 SL-U: SL Consistent LBT failure

Includes further updates/details on SL C-LBT failure handling/recovery

[R2-2307089](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307089.zip) Discussion on C-LBT OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2307130](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307130.zip) Discussion on SL consistent LBT failure Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2307214](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307214.zip) Discussion on SL consistent LBT failure LG Electronics Inc. discussion NR\_SL\_enh2

[R2-2307383](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307383.zip) Discussion on remaining issues of SL-U NEC discussion Rel-18 NR\_SL\_enh2

[R2-2307385](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307385.zip) (draft)LS to RAN1 on LBT failure indication NEC LS out Rel-18 NR\_SL\_enh2 To:RAN WG1

[R2-2307478](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307478.zip) Discussion on Sidelink consistent LBT failure ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2307555](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307555.zip) Further Discussion on SL LBT CATT discussion Rel-18 NR\_SL\_enh2

[R2-2307723](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307723.zip) Discussion on SL consistent LBT failure Xiaomi discussion

[R2-2307816](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307816.zip) Remaining issues on SL consistent LBT failure recovery Apple discussion NR\_SL\_enh2

[R2-2307956](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307956.zip) Remaining details of SL LCP and SL consistent LBT procedure Lenovo discussion Rel-18 NR\_SL\_enh2-Core

[R2-2307977](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307977.zip) Remaining issues on SL consistent LBT failure vivo discussion Rel-18

[R2-2308085](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308085.zip) On SL-U LBT failure Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2308117](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308117.zip) Remaining issues on SL-U consistent LBT failure Spreadtrum Communications discussion Rel-18

[R2-2308375](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308375.zip) Remaining Issues on LBT Failure for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2308462](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308462.zip) Remaining issues for SL C-LBT Samsung discussion Rel-18 NR\_SL\_enh2

[R2-2308515](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308515.zip) Open issues on consistent LBT handling and recovery Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2

[R2-2308582](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308582.zip) Discussion on SL C-LBT failure Qualcomm India Pvt Ltd discussion

[R2-2308699](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308699.zip) Remaining issue on SL Consistent LBT failure ITL discussion Rel-18

### 7.15.3 SL-U: SL resource (re)selection, SL LCP

Includes further updates/details on SL resource (re)selection and SL LCP restriction

[R2-2307090](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307090.zip) Discussion on Resource (Re)selection and LCP Enhancement OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2307131](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307131.zip) Consideration on SL resource selection and LCP enhancement Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2307145](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307145.zip) Consideration on MCSt impact NEC discussion NR\_SL\_enh2

[R2-2307215](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307215.zip) Discussion on SL resource (re)selection and LCP impact LG Electronics Inc. discussion NR\_SL\_enh2

[R2-2307479](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307479.zip) Discussion on resource (re)selection and LCP for SL-U ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2307556](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307556.zip) Discussion on Sidelink Resource Reselection CATT discussion Rel-18 NR\_SL\_enh2

[R2-2307724](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307724.zip) Discussion on resource allocation and enhanced LCP for SL-U Xiaomi discussion

[R2-2307817](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307817.zip) Remaining issues on LCP and resource (re)selection in SL-U Apple discussion NR\_SL\_enh2

[R2-2307903](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307903.zip) LCP enhancement for COT sharing Ericsson, Xiaomi, Nokia, Nokia Shanghai Bell, vivo discussion Rel-18 NR\_SL\_enh2

[R2-2307904](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307904.zip) Resource selection and reselection for SL-U Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2307978](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307978.zip) Remaining issues on resource (re)selection and LCP vivo discussion Rel-18

[R2-2307992](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307992.zip) Discussion on resource (re)selection for NR SL-U Lenovo discussion Rel-18

[R2-2308084](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308084.zip) On resource reselection and enhanced LCP Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2308118](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308118.zip) Discussion on resource (re)selection and SL LCP in SL-U Spreadtrum Communications discussion Rel-18

[R2-2308376](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308376.zip) Implementing LCP for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2308377](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308377.zip) Mode 2 Resource Selection Considering LBT Impacts InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2308463](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308463.zip) SL resource (re)selection with intra-UE LBT impact Samsung discussion Rel-18 NR\_SL\_enh2

[R2-2308516](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308516.zip) Open issues on resource (re)selection and LCP restrictions Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2

[R2-2308590](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308590.zip) Discussion on SL resource selection and LCP Qualcomm India Pvt Ltd discussion

[R2-2308725](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308725.zip) Discussion on resource (re)selection for MCSt ASUSTeK discussion Rel-18 NR\_SL\_enh2

### 7.15.4 SL-U: Others

Includes further updates/details on e.g. leftovers on SL DRX and SL CG, etc.

[R2-2307132](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307132.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307132.zip) Impact on leftover issues for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

R2-2307175 Sidelink LBT Failure and Acknowledgement on PUCCH Samsung Electronics Co., Ltd discussion Rel-18 NR\_SL\_enh2 Withdrawn

[R2-2307216](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307216.zip) Discussion on SL-U others LG Electronics Inc. discussion NR\_SL\_enh2

[R2-2307480](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307480.zip) Discussion on SL CG and DRX in SL-U ZTE Corporation, CAICT, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2307557](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307557.zip) Other Remaining Issues in SL-U CATT discussion Rel-18 NR\_SL\_enh2

[R2-2307725](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307725.zip) Discussion on other aspects for SL-U Xiaomi discussion

[R2-2307906](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307906.zip) Other aspects on SL-U Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2307993](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307993.zip) Other remaining issue for NR SL-U Lenovo discussion Rel-18

[R2-2308464](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308464.zip) Other issues for SL-U Samsung discussion Rel-18 NR\_SL\_enh2

[R2-2308517](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308517.zip) On HARQ DTX and multiple PSFCH occasions Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_enh2

[R2-2308698](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308698.zip) Remaining issue on SL DRX in SL-U ITL discussion Rel-18

### 7.15.5 SL-FR2

Includes e.g. identification of RAN2 scopes and proposals, further updates/details from the previous RAN2 discussion, updates/details of related RAN1 discussion, etc.

[R2-2307213](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307213.zip) Discussion on RAN2 aspects of SL-FR2 LG Electronics Inc. discussion NR\_SL\_enh2

[R2-2307229](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307229.zip) Discussion on SL-FR2 impact to RAN2 Xiaomi discussion

[R2-2307236](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307236.zip) Discussion on SL-FR2 impact OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2307262](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307262.zip) Discussion on sidelink FR2 aspects in RAN2 Nokia Netherlands discussion Rel-18

[R2-2307481](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307481.zip) Discussion on sidelink FR2 ZTE Corporation, CAICT, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2307501](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307501.zip) RAN2 Aspects of NR Sidelink Operation in FR2 Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_enh2 R2-2306472

[R2-2307558](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307558.zip) Discussion on Sidelink Operation on FR2 CATT discussion Rel-18 NR\_SL\_enh2

[R2-2307573](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307573.zip) Discussion on SL-FR2 Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2307818](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307818.zip) Discussion on RAN2 aspects of SL FR2 Apple discussion NR\_SL\_enh2

[R2-2307905](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307905.zip) SL in FR2 Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2307979](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307979.zip) Discussion on BFD BFR and RLF vivo discussion Rel-18

[R2-2307994](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307994.zip) Discussion on FR2 operation for NR SL Lenovo discussion Rel-18

[R2-2308465](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308465.zip) Discussion on SL-FR2 Samsung discussion Rel-18 NR\_SL\_enh2

[R2-2308591](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308591.zip) Discussion on SL FR2 Qualcomm India Pvt Ltd discussion

### 7.15.6 SL-CA

Includes further updates/details on SL CA. Note this work assumes a very high degree of reuse from LTE V2X.

[R2-2307091](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307091.zip) Discussion on Carrier Aggregation OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2307092](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307092.zip) Discussion on ’TX Profile’ OPPO, Nokia, Nokia Shanghai Bell, vivo, NEC, MediaTek Inc., Samsung discussion Rel-18 NR\_SL\_enh2

[R2-2307201](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307201.zip) Discussion on remaining issues of SL-CA enhancements LG Electronics Inc. discussion NR\_SL\_enh2

[R2-2307353](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307353.zip) Discussion on CSI report for Carrier Aggregation SHARP Corporation discussion NR\_SL\_enh2-Core

[R2-2307384](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307384.zip) Discussion on remaining issues of SL CA NEC discussion Rel-18 NR\_SL\_enh2

[R2-2307404](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307404.zip) SL RLF in SL CA Fujitsu discussion Rel-18 NR\_SL\_enh2

[R2-2307482](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307482.zip) Discussion on sidelink CA ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2307559](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307559.zip) Discussion on NR Sidelink CA CATT discussion Rel-18 NR\_SL\_enh2

[R2-2307574](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307574.zip) Discussion on SL CA enhancements Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2307718](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307718.zip) SL CA for unicast TCL discussion

[R2-2307726](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307726.zip) Discussion on carrier aggregation for NR sidelink Xiaomi discussion

[R2-2307819](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307819.zip) Further discussion on Sidelink CA Apple discussion NR\_SL\_enh2

[R2-2307859](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307859.zip) Discussion on TX profile for SL CA GC/BC Apple,Ericsson, Qualcomm, Xiaomi, ZTE, Sanechips, Philips, LG Electronics, InterDigital discussion Rel-18

[R2-2307907](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307907.zip) Aspects of SL CA Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2307975](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307975.zip) Further discussion on the support of CA for NR Sidelink Mode-2 vivo discussion Rel-18

[R2-2307995](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307995.zip) Discussion on multi-carrier operation for NR SL Lenovo discussion Rel-18

[R2-2308378](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308378.zip) Considering Survival Time Requirement for SL InterDigital, Lenovo discussion Rel-18 NR\_SL\_enh2

[R2-2308379](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308379.zip) Carrier Aggregation for NR SL for Unicast InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2308466](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308466.zip) Remaining issues for SL CA Samsung discussion Rel-18 NR\_SL\_enh2

[R2-2308592](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308592.zip) Discussion on SL CA Qualcomm India Pvt Ltd discussion

[R2-2308747](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308747.zip) Support of NR SL CA Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2

## 7.16 Artificial Intelligence Machine Learning for NR air interface

(FS\_NR\_AIML\_air; leading WG: RAN1; REL-18; WID:RP-221348)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Aspects of on-line/real-time training are deprioritized.

NOTE that from Now also R1 parts of the TR can be / should be used as baseline for R2 discussions.

### 7.16.1 Organizational

LS ins. Rapporteur input.

Expect to discuss and clarify the RAN2 input to the TR. Including [Post122][059][AIML] TR text proposal (Ericsson)

[R2-2308912](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308912.zip) R2 input to TR 38.843 Ericsson draftCR Rel-18 38.843 0.1.0 B FS\_NR\_AIML\_air

- Ericsson: This is a first iteration gathering the RAN2 agreements into the TR structure. There was no controversial discussion during the email discussion (mostly on content/wording). There is a mismatch between RAN1’s and RAN2 styles which might need further attention.

* Noted

[R2-2308913](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308913.zip) [Post122][059][AIML]: on functional framework, topics to discuss, and FFSs Ericsson discussion Rel-18 FS\_NR\_AIML\_air

Chair summary of discussion:

- A number of companies want to elaborate the figure so it can show applicability in different scenarios/cases

- Multiple companies comment that whether boxes and arrows are dashed, whether things are optional in some scenarios/cases, is not important for this figure. It fullfills sufficient purpose the way it is, and it is also not useful to have FFSes.

- Chair: nothing agreeable from this discussion.

- Chair comment: We could of course consider removing the word model from the data/information flow ‘Model selection/(de)activation/switching/fallback’ as this seems to add confusion.

* Noted

### 7.16.2 AIML methods

Explore AIML methods that are expected applicable to this SI and their expected or potential architecture (allocation of functionality to entities), Identification asepcts, other framework aspects, impact on RAN2. Most of LCM is in RAN2 scope.

Both general aspects and use-cases specific aspects are applicable (for use cases in scope). . Please input to 7.16.2.x

#### 7.16.2.1 Architecture and General

Discussion on Model ID is postponed. Based on RAN1 progress, Can discuss the AIML algorithm dependency on locality (e.g. cell specific), UE-side AIML dependency on gNB configuration etc, dependency on other aspects such as UE speed, Network-side AIML dependency to be UE specific etc, and the related procedure impacts. Can discuss the expected impacts for Network Side-algorithms.

UE Cap: On a high level, Identify potential impacts to RRC and LPP UE capabilities or equivalent functionality if any.

Progress the logical arch (if needed).

Mapping of Functionality to entities, general aspects.

Including [Post122][060][AIML] Mapping of functions to physical entities (CMCC)

[R2-2308286](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308286.zip) Report of [Post122][060][AIML] Mapping of functions to physical entities (CMCC) CMCC report Rel-18 FS\_NR\_AIML\_air

- Quite long discussion

- CMCC report that FFS items has support from 3 companies.

- Chair Comment: These options represent several possibilities. RAN2 would typically have selected a specific architecture option, and for a WI, specific option(s) need to be selected. Hope it is possible to further narrow down during the SI.

* P1-P6 are agreed, it is expected that FFS items for which support is not increased will be removed.

[R2-2307812](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307812.zip) Discussion on UE capability, applicability condition reporting and LCM Apple discussion FS\_NR\_AIML\_air

* Noted wo presentation

R2-2309202 Summary report of [AT123][001][AIML] UE capability and applicability conditions Apple discussion FS\_NR\_AIML\_air

- Offline 001 (Apple), Converge on applicability conditions and UE capability, in particular such reporting that need to be more dynamic than current static UE capabilities. Baseline for the offline would be R2-2307812 tdoc + other relevant docs selected by Rapporteur.

- Chair: lots of discussion not captured here.

* R2 confirms that for UE-side AIML functionality, current UE capability reporting by RRC and LPP and handling is expected to be used, at least for static capabilities.
* AIML algorithm for a certain use case may be tailored towards and applicable to certain scenarios/location/configuration/deployment etc. AIML algorithm may be updated, e.g. by model change (these are observations):

RAN2 assumes that for UE-side AIML, the UE informs the RAN about applicability conditions of AIML algorithm(s) available to the UE, to support RAN control (e.g. activation/deactivation/switching).

RAN2 further observes that current UE capability reporting and handling is designed for Capabilities that do not dynamically change. The procedure for UE reporting of AIML applicability conditions is FFS.

[R2-2307140](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307140.zip) General aspects of AIML framework NEC discussion FS\_NR\_AIML\_air

[R2-2307157](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307157.zip) General aspects for AIML OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307230](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307230.zip) Discussion on architecture aspects Xiaomi discussion

[R2-2307364](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307364.zip) Further discussions on architecture general aspects of AIML for NR air-interface CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307433](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307433.zip) Discussion on Architecture General vivo discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307484](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307484.zip) Discussion on AI/ML Capability Reporting and Model LCM SHARP Corporation discussion

[R2-2307523](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307523.zip) AI/ML functionality-based and model-ID based LCM Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307684](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307684.zip) AI/ML locality and capability: RAN2 impact Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307813](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307813.zip) Remaining issues on Model ID and AI/ML architecture Apple discussion FS\_NR\_AIML\_air

[R2-2308020](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308020.zip) Discussion on identifier used for UE side/part model LCM Lenovo discussion Rel-18

[R2-2308129](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308129.zip) Discussion on general architecture Spreadtrum Communications discussion Rel-18

[R2-2308150](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308150.zip) AI/ML LCM Dependency on gNB Configuration MediaTek Inc. discussion

[R2-2308176](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308176.zip) On Other Aspects of AI/ML for positioning accuracy enhancement Sony discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308195](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308195.zip) AIML architecture Nokia, Nokia Shanghai Bell, T-Mobile US, Samsung discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308456](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308456.zip) Discussion on the architectural and general aspects of AI/ML Futurewei Technologies discussion

[R2-2308548](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308548.zip) AI/ML capability reporting InterDigital discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308596](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308596.zip) Discussion on AI/ML Architecture General Qualcomm Incorporated discussion Rel-18

[R2-2308631](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308631.zip) Discussion on general aspects Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308764](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308764.zip) Consideration of Meta information and signalling framework Kyocera discussion

[R2-2308779](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308779.zip) Architecture and LCM aspects of AI/ML for NR air interface AT&T discussion

[R2-2308795](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308795.zip) AIML method\_Architecture General LG Electronics discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308836](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308836.zip) Further Discussion on general aspects of AIML for PHY ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308868](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308868.zip) Discussion on Architecture and General TCL discussion

[R2-2308873](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308873.zip) Discussion on the AI Functional Framework China Unicom discussion FS\_NR\_AIML\_air

[R2-2308914](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308914.zip) On UE capability/applicability reporting and functionality-to-entity mapping Ericsson discussion Rel-18 FS\_NR\_AIML\_air

#### 7.16.2.2 Data Collection

Postpone evaluation discussion unitil RAN1 reply is received. Can continue to discussion Open issues.

Mapping of functionality to entities, for Data collection (i.e. do we use the existing data collection frameworks as is or what modifications do we expect, any aspects that is not covered that may be important?)

[R2-2308898](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308898.zip) Data collection for AI/ML Ericsson discussion

* noted

DISCUSSION

- On P3: “once RAN1 has assessed the feasibility OAM-centric data collection” is removed as several companies commented that this is wrong.

- P8 and P10 have significant support but are marked FFS, as a couple of companies very strongly oppose.

- The proposals seems to have aspects that need further discussion, Chair think the further-discussion aspects are minor and would like to capture something.

- Lots of comments not captured

Chair: The proposals below are almost agreeable. It is a narrowing proposal (more specific than the physical entity mapping agreed) and is a reasonable baseline for further work:

Proposal 1 For training of NW-side models, RAN2 prioritizes discussion on the suitability of data collection frameworks for gNB-centric data collection.

Proposal 2 For training of NW-side models, the gNB-centric data collection implies that the gNB configures the UE to transfer data and initiates/terminates a data transferring session.

Proposal 3 For training of NW-side models, RAN2 evaluates the suitability of data collection frameworks for OAM-centric data collection

Proposal 4 For training of NW-side models, the OAM-centric data collection implies that the OAM initiates and terminates the data collection from the UE.

Proposal 5 If feasibility of OAM-centric data collection for NW-side models is assessed by RAN1, RAN2 considers enhancements to logged MDT, such as logging measurements in RRC Connected mode.

Proposal 6 For gNB-centric data collection for NW-side model, RAN2 to study a L3 data collection framework that allows the UE to measure and store a set of measurements (details up to RAN1) to be reported to the gNB upon request.

Proposal 7 For NW-side performance monitoring, RAN2 waits for RAN1 input on the need to enhance the L1 reporting configuration or the L3 RRC measurement configuration and reporting.

FFS Proposal 8 For UE-side model training, RAN2 considers (subject to RAN1 progress), the UE Assistance Information framework as a tool for the UE to request aid from the network in training at the UE.

Proposal 9 For UE-side performance monitoring at NW side, RAN2 to focus on impacts in layer-2, or layer-3 (possibly including some layer-1 related measurements) for reporting of the outcome of performance monitoring (e.g. performance monitoring results, (non)applicability of AIML functionality). Layer-1 details are left to RAN1.

FFS Proposal 10 The need of any enhancements to non-RAN data collection frameworks for UE-side models should be studied in SA WGs.

Proposal 11 For CSI/beam management use cases, RAN2 to agree to Table 1 in Annex A which maps LCM functions to the various existing data collection frameworks considering; the sidedness of the model, and the entity terminating/initiating the data collection.

[R2-2308780](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308780.zip) Data collection aspects of AI/ML for NR air interface AT&T discussion

[R2-2307141](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307141.zip) Requirements and Assumptions for AIML Data Collection NEC discussion FS\_NR\_AIML\_air

[R2-2307231](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307231.zip) Discussion on data collection Xiaomi discussion

[R2-2307365](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307365.zip) Considerations on data collection of AIML for NR air-interface CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307405](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307405.zip) Discussions on AIML data collection Fujitsu discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307434](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307434.zip) Remaining issues of data collection for model training at server vivo, Qualcomm Incorporated discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307521](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307521.zip) Enhancements for RRM/MDT for AI/ML data collection Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307814](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307814.zip) Remaining issues on data collection for AI/ML Apple discussion FS\_NR\_AIML\_air

[R2-2308021](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308021.zip) Qualitative analysis on data collection requirements Lenovo discussion Rel-18

[R2-2308130](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308130.zip) Discussion on data collection Spreadtrum Communications discussion Rel-18

[R2-2308151](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308151.zip) Data Collection for Model Training at UE Side MediaTek Inc. discussion

[R2-2308166](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308166.zip) Some considerations about data collection Sony discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308197](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308197.zip) AIML data collection Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308410](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308410.zip) Data collection for AIML Interdigital Inc. discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308632](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308632.zip) Discussion on data collection Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308796](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308796.zip) AIML method\_Data Collection LG Electronics discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308837](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308837.zip) Further Discussion On Purpose Driven Data Collection ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308867](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308867.zip) Data collection for AIML methods TCL discussion

withdrawn

R2-2308565 Data collection for AIML Interdigital Inc. discussion Rel-18 FS\_NR\_AIML\_air Withdrawn

#### 7.16.2.3 Model transfer – delivery

Expect to continue evaluation for cases of methods, ambition level, mapping of functionality to entities. Determine tangible open issues if any.

[R2-2308022](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308022.zip) Discussion on gNB/LMF awareness of UE side model and functionality Lenovo discussion Rel-18

- AT&T and Verizon supports, RAN need to be involved, also for solutions for which the Model transfer-delivery is transparent to RAN.

- Comments that we might not need to consider 2a2b as they are FFS in the physical entity mapping.

- Chair: considerable support but no final agreement.

* Noted

[R2-2308178](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308178.zip) Discussion on AI/ML Model Transfer/Delivery MediaTek Inc. discussion

- Discussion not captured

* Model transfer/delivery can be initiated in following two ways:

Reactive model transfer/delivery: an AI/ML model is downloaded when it is needed due to changes in scenarios, configurations, or sites.

FFS: Proactive model transfer/delivery: AI/ML models are pre-download to UE, and a model switch is performed when changes in scenarios, configurations, or sites occur.

[R2-2307142](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307142.zip) AIML Data Collection for Model Training NEC discussion FS\_NR\_AIML\_air

[R2-2307143](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307143.zip) AIML Model transfer NEC discussion FS\_NR\_AIML\_air

[R2-2307158](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307158.zip) Open Issue Discussion on Model Transfer Delivery OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307247](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307247.zip) AI/ML model delivery Xiaomi discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307366](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307366.zip) Further discussions on AIML model transfer CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307435](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307435.zip) Discussion on model transfer vivo discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307520](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307520.zip) AI/ML model transfer/delivery solutions Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307685](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307685.zip) Architecture impact on model transfer method Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307815](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307815.zip) Further discussion on model transfer Apple discussion FS\_NR\_AIML\_air

[R2-2308131](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308131.zip) Discussion on model transfer-delivery Spreadtrum Communications discussion Rel-18

[R2-2308178](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308178.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308178.zip) Discussion on AI/ML Model Transfer/Delivery MediaTek Inc. discussion

[R2-2308199](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308199.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308199.zip) AIML model transfer delivery Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308292](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308292.zip) Discussion on AI/ML model transfer/delivery CMCC discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308411](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308411.zip) Way forward for AIML Model transfer/delivery Interdigital Inc. discussion Rel-18 FS\_NR\_AIML\_air

R2-2308566 Way forward for AIML Model transfer/delivery Interdigital Inc. discussion Rel-18 FS\_NR\_AIML\_air Withdrawn

[R2-2308597](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308597.zip) Discussion on Model Transfer/Delivery Qualcomm Incorporated discussion Rel-18

[R2-2308633](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308633.zip) Discussion on model transfer and delivery Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308781](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308781.zip) AI/ML model transfer and delivery AT&T discussion

[R2-2308838](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308838.zip) Further Discussion on Model TransferDelivery for AIML ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308915](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308915.zip) On the need for model transfer Ericsson discussion Rel-18 FS\_NR\_AIML\_air

#### 7.16.2.4 Control and LCM other

AIML control beyond / other than Model transfer – delivery, Impact of other LCM procedures.

[R2-2307159](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307159.zip) Discussion on Model Monitoring OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307160](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307160.zip) Discussion on Model Identification OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307367](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307367.zip) Considerations on other model control procedures CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307436](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307436.zip) Discussion on model management and identification vivo discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307486](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307486.zip) Discussion on Model Monitoring and Reporting Considering Functionality and Model ID based LCM SHARP Corporation discussion R2-2305826

[R2-2307522](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307522.zip) Indication of supported AI/ML models and functionalities Samsung R&D Institute UK discussion FS\_NR\_AIML\_air

[R2-2307686](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307686.zip) model control procedure: RAN2 impact Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

[R2-2307982](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307982.zip) AI ML model management across RRC state transitions and mobility among non-interoperable networks Rakuten Symphony discussion Rel-18

[R2-2308132](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308132.zip) Discussion on Control and LCM other Spreadtrum Communications discussion Rel-18

[R2-2308167](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308167.zip) Some considerations about CSI compression Sony discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308189](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308189.zip) Model Control and Model Monitoring MediaTek Inc. discussion

[R2-2308212](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308212.zip) AIML control and other topics Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308267](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308267.zip) AI/ML model inference and monitoring for positioning accuracy enhancement Xiaomi discussion

[R2-2308293](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308293.zip) Discussion on model control and other LCM procedures CMCC discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308457](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308457.zip) Discussion on the life cycle management of AI/ML models Futurewei Technologies discussion

[R2-2308549](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308549.zip) Functionality ID for AI/ML control InterDigital discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308598](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308598.zip) Discussion on Life Cycle Management Qualcomm Incorporated discussion Rel-18

[R2-2308634](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308634.zip) Discussion on control and LCM other Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308782](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308782.zip) AI/ML model control AT&T discussion

[R2-2308783](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308783.zip) Discussion on model model-based management LG Electronics France discussion Rel-18 38.843 FS\_NR\_AIML\_air

[R2-2308839](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308839.zip) Consideration on General Porocedure For Different Use Cases ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

[R2-2308916](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308916.zip) Control and monitoring responsibility Ericsson discussion Rel-18 FS\_NR\_AIML\_air

## 7.17 Dual Transmission/Reception (Tx/Rx) Multi-SIM for NR

(NR\_DualTxRx\_MUSIM-Core; leading WG: RAN2; REL-18; WID: [RP-230751](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_99/Docs/RP-230751.zip))

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.17.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan)

Running CR rapporteurs of 37.340 (ZTE), 38.300 (China Telecom) and 38.331 (vivo) specifications are requested to provide first/latest versions running CRs as rapporteur input (which are not counted against the Tdoc limits)

[R2-2307538](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307538.zip) 37.340 Running CR for Introduction of MUSIM ZTE Corporation, Sanechips draftCR Rel-18 37.340 17.5.0 B NR\_DualTxRx\_MUSIM-Core

[R2-2307689](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307689.zip) Running RRC CR for NR MUSIM enhancements vivo draftCR Rel-18 38.331 17.5.0 NR\_DualTxRx\_MUSIM-Core

[R2-2308726](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308726.zip) 38.300 Running Stage-2 CR for NR MUSIM enhancements China Telecom draftCR Rel-18 38.300 17.5.0 NR\_DualTxRx\_MUSIM-Core

### 7.17.2 Procedures for MUSIM temporary capability restriction

Including discussion on “proactive” and “reactive” approaches and whether/how it’s possible to use the same procedural framework for both cases

Including discussion on how the early MUSIM indication from UE to NW indication during RRC connection setup/resume works

Including discussion on whether/how UE can request specific serving cells to be released for for the “proactive” approach

Including discussion on how the UE signalling on capability restrictions works (e.g. which RRC message and other signalling details)

[R2-2307161](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307161.zip) Discussion on proactive and reactive approaches OPPO discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307162](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307162.zip) Discussion on early MUSIM Indication OPPO discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307280](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307280.zip) Procedures for MUSIM temporary capability restriction DENSO CORPORATION discussion NR\_DualTxRx\_MUSIM-Core

[R2-2307450](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307450.zip) Discussion on early MUSIM indication Huawei, HiSilicon discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307454](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307454.zip) Discussion on proactive and reactive approaches Huawei, HiSilicon discussion

[R2-2307539](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307539.zip) Consideration on the Temporary capability Reporting procedure ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307690](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307690.zip) Early indication for MUSIM temporary capability restriction vivo discussion Rel-18

[R2-2307691](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307691.zip) Procedures for MUSIM temporary capability restriction vivo discussion Rel-18

[R2-2307774](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307774.zip) Basic signalling procedure for reactive and proactive approach for Dual TX/TX MUSIIM operation Nokia, Nokia Shanghai Bell discussion

[R2-2307775](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307775.zip) Additional aspects for Dual TX/RX MUSIM Operation Nokia, Nokia Shanghai Bell discussion

[R2-2307780](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307780.zip) Indication of UE Capability Restriction for eMUSIM SHARP Corporation discussion

[R2-2307872](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307872.zip) Signalling aspects for MUSIM temporary capability restriction Apple discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308089](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308089.zip) Common framework for proactive and reactive approach for MUSIM Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308091](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308091.zip) MUSIM Capability restriction signalling during RRC Resume and Setup Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308243](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308243.zip) Discussion on early capability restriction indication NEC discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308244](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308244.zip) Procedures for MUSIM temporary capability restriction NEC discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308255](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308255.zip) Early indication of restricted capabilities for MUSIM UE Ericsson discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308497](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308497.zip) Early indication of temporary capability restriction Samsung discussion

[R2-2308498](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308498.zip) Discussion on temporary capability restriction Samsung discussion

[R2-2308758](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308758.zip) Procedure for MUSIM temporary capability restriction China Telecom discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308787](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308787.zip) General procedure for Both Proactive and Reactive cases LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308788](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308788.zip) Supporting Proactive cases in other scenarios LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308789](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308789.zip) Timer based approach in MUSIM LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308791](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308791.zip) Procedures for Dual-Active MUSIM Qualcomm Incorporated discussion

### 7.17.3 Allowed MUSIM temporary capability restrictions

Including discussion on which UE capabilities in NW A or NW B can be impacted by temporary UE capability restrictions (e.g. MIMO layers, measurement gaps, SRS tx switching, bandwidth support, etc.) and in which granularity?

Including discussion band combination restrictions due to band conflict and what does UE report to the network for those cases?

[R2-2307163](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307163.zip) Allowed MUSIM temporary capability restrictions OPPO discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307451](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307451.zip) Details of allowed MUSIM temporary capability restrictions Huawei, HiSilicon discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307540](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307540.zip) Consideration on the Temporory Capability Reporting ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307598](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307598.zip) Allowed MUSIM temporary capability restrictions Samsung R&D Institute India discussion

[R2-2307678](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307678.zip) Capability sharing issue for SRS Tx switching capability Xiaomi discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307692](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307692.zip) Discussion on temporary capability restriction for Rel-18 Multi-SIM vivo discussion Rel-18

[R2-2307776](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307776.zip) Analysis on capability restriction for Dual TX/RX MUSIM Operation Nokia, Nokia Shanghai Bell discussion

[R2-2307873](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307873.zip) Allowed MUSIM temporary capability restriction for band conflict mitigation Apple discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308257](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308257.zip) Discussion on frequencies restriction for MUSIM UE Ericsson discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308258](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308258.zip) Measurement gap capability for MUSIM UE Ericsson discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

### 7.17.4 Other

Including discussion on gap priority: How does the network set the gap priorities for MUSIM gaps?

[R2-2307452](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307452.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307452.zip) Discussion on MUSIM gap priority Huawei, HiSilicon discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307541](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307541.zip) Consideration on the MUSIM Gap Priority ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307542](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307542.zip) Consideration on the R17/18 MUSIM Feature interaction ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2307693](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307693.zip) Discussion on MUSIM gap priorities vivo discussion Rel-18

[R2-2307777](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307777.zip) On MUSIM Gap Priority handling for Single RX MUSIM operation Nokia, Nokia Shanghai Bell discussion

[R2-2308090](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308090.zip) UAI repetition for MUSIM and dependency on Rel-17 MUSIM capability Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308256](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308256.zip) MUSIM gap priority configuration Ericsson discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308708](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308708.zip) Further discussion on MUSIM gap priorities Samsung Electronics Nordic AB discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2308790](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308790.zip) MUSIM Gap Priority LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

## 7.18 Mobile Terminated Small Data Transmission

(NR\_NR\_MT\_SDT-Core; leading WG: RAN2; REL-18; WID: RP-222993)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

This WI is planned to be concluded and finalized at current meeting.

### 7.18.1 Organizational

Running CRs expected as input in this meeting: 38.300 (Nokia), 38.331 (ZTE), 38.321 (Huawei), 38.306 (Intel).

[R2-2307128](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307128.zip) Introduction of MT-SDT to MAC spec Huawei, HiSilicon CR Rel-18 38.321 17.5.0 1634 - B NR\_MT\_SDT-Core

[R2-2307129](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307129.zip) Summary of [Post122][309][MT-SDT] 38.321 Running CR (Huawei) Huawei, HiSilicon discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307529](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307529.zip) RRC Running CR review report (Post122 email 312) ZTE Corporation (rapporteur) report

[R2-2307530](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307530.zip) Introduction of MT-SDT ZTE Corporation (rapporteur) CR Rel-18 38.331 17.5.0 4194 - B NR\_MT\_SDT-Core, TEI18

[R2-2308082](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308082.zip) UE capabilities for Rel-18 MT-SDT WI Intel Corporation draftCR Rel-18 38.306 17.5.0 B NR\_MT\_SDT-Core

[R2-2308083](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308083.zip) UE capabilities for Rel-18 MT-SDT WI Intel Corporation draftCR Rel-18 38.331 17.5.0 B NR\_MT\_SDT-Core

[R2-2308926](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308926.zip) Introduction of MT-SDT in Stage-2 Nokia, Nokia Shanghai Bell draftCR Rel-18 38.300 17.5.0 NR\_MT\_SDT-Core

### 7.18.2 Control plane aspects

[R2-2307117](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307117.zip) Remaining Issues on MT-SDT from CP vivo discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307173](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307173.zip) Remaining Control plane issues of MT SDT Procedure in RRC\_INACTIVE state Samsung Electronics Co., Ltd discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307518](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307518.zip) CP aspects for MT-SDT procedure Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307672](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307672.zip) RRC configuration and the UE capability for MT-SDT Xiaomi discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307803](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307803.zip) Consideration on MT-SDT from CP perspective LG Electronics Inc. discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307845](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307845.zip) Control plane aspects of MT-SDT Apple discussion Rel-18 DUMMY

[R2-2307952](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307952.zip) Further MT-SDT discussion Ericsson discussion NR\_MT\_SDT-Core

[R2-2307959](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307959.zip) remaining CP details for MT-SDT Lenovo discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308077](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308077.zip) MT SDT – CP Open Topics on Capabilities and Configurations (including CG-SDT) Intel Corporation discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308170](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308170.zip) Control plane aspects for MT-SDT Sony discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308349](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308349.zip) Control plane aspects of MT-SDT Huawei, HiSilicon discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308364](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308364.zip) The remaining issues on CP aspects for MT-SDT CATT discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308405](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308405.zip) Remining issues on control plane aspects of MT-SDT Qualcomm Incorporated discussion NR\_MT\_SDT-Core

[R2-2308655](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308655.zip) Discussion on CP aspects of MT-SDT China Telecom discussion

### 7.18.3 User plane aspects

[R2-2307118](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307118.zip) Remaining Issues on MT-SDT from UP vivo discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307174](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307174.zip) Remaining user plane issues of MT SDT Procedure in RRC\_INACTIVE state Samsung Electronics Co., Ltd discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307273](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307273.zip) Discussion on user plane issues for MT-SDT Continental Automotive discussion Rel-18

[R2-2307804](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307804.zip) Remaining UP issues on MT-SDT LG Electronics Inc. discussion Rel-18 NR\_MT\_SDT-Core

[R2-2307846](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307846.zip) MT-SDT over CG-SDT Apple discussion Rel-18 DUMMY

[R2-2307934](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307934.zip) Handling BWP restrictions in MT-SDT Ericsson, T-Mobile USA, Deutsche Telekom discussion NR\_MT\_SDT-Core

[R2-2307960](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307960.zip) Remaining UP details for MT-SDT Lenovo discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308081](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308081.zip) MT SDT – UP Open Topics on ROHC and DVT Intel Corporation discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308169](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308169.zip) Beam failure recovery for Rel-18 SDT Sony, Nokia, Nokia Shanghai Bell, Samsung discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308171](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308171.zip) User plane aspects for MT-SDT Sony discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308242](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308242.zip) User plane aspects of MT-SDT NEC discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308348](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308348.zip) User plane aspects of MT-SDT Huawei, HiSilicon discussion Rel-18 NR\_MT\_SDT-Core

[R2-2308406](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308406.zip) Remining issues on user plane aspects of MT-SDT Qualcomm Incorporated discussion NR\_MT\_SDT-Core

[R2-2308656](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308656.zip) Discussion on UP aspects of MT-SDT China Telecom discussion

[R2-2308927](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308927.zip) Selection between CG-SDT and RACH based SDT Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MT\_SDT-Core

## 7.19  Enhanced support of reduced capability NR devices

(NR\_redcap\_enh-Core; leading WG: RAN1; REL-18; WID: RP-223544)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 7.19.1   Organizational

Incoming LSs, running CRs, etc.

[R2-2307029](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307029.zip) Reply LS on INACTIVE eDRX above 10.24sec and SDT (R3-233347; contact: Ericsson) RAN3 LS in Rel-18 NR\_REDCAP\_Ph2, NR\_redcap\_enh-Core To:SA2, CT4 Cc:RAN2

[R2-2307058](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307058.zip) LS reply to RAN3 progress on Rel-18 RedCap enhancements to address remaining ENs in TS 23.502 (S2-2307730; contact: Huawei) SA2 LS in Rel-18 NR\_redcap\_enh To:RAN3 Cc:RAN2, CT4

[R2-2307256](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307256.zip) Running CR for TS 38.300 for Rel-18 eRedCap OPPO draftCR Rel-18 38.300 17.5.0 NR\_redcap\_enh-Core

[R2-2307301](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307301.zip) Running MAC CR for eRedCap vivo (Rapporteur) draftCR Rel-18 38.321 17.5.0 NR\_redcap\_enh-Core

[R2-2307447](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307447.zip) Running 38.304 CR for enhanced support of reduced capability NR devices Huawei, HiSilicon draftCR Rel-18 38.304 17.5.0 B NR\_redcap\_enh-Core

[R2-2307599](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307599.zip) Capability definition and report for eRedCap UE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307657](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307657.zip) UE Capabilities for Rel-18 eRedCap WI Intel Corporation draftCR Rel-18 38.306 17.5.0 B NR\_redcap\_enh-Core

[R2-2307658](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307658.zip) UE Capabilities for Rel-18 eRedCap WI Intel Corporation draftCR Rel-18 38.331 17.5.0 B NR\_redcap\_enh-Core

[R2-2307737](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307737.zip) Discussion on RAN1 LS on Msg.4 PDSCH transmission vivo, Huawei, HiSilicon, Apple, MediaTek Inc., Qualcomm Inc., Ericsson, Intel Corporation, CMCC, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308238](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308238.zip) [draft] LS on the guidance when capturing Rel-18 RedCap UEs in specifications Huawei, Ericsson LS out Rel-18 NR\_redcap\_enh-Core To:RAN1, RAN3, RAN4

R2-2308804 Running RRC CR for eRedCap Ericsson draftCR Rel-18 38.331 17.5.0 NR\_redcap\_enh-Core Late

[R2-2308805](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308805.zip) Discussion on Msg4 PDSCH transmission to Rel-18 eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core

### 7.19.2   Enhanced eDRX in RRC\_INACTIVE

PTW details, e.g. restriction that RAN PTW is longer/shorter/same as CN PTW.

Remaining fallback details if any.

[R2-2307144](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307144.zip) Remaining issues for Fallback behaviour for eRedcap UE NEC discussion NR\_redcap\_enh-Core

[R2-2307248](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307248.zip) Discussion on enhanced eDRX in RRC\_INACTIVE OPPO discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307302](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307302.zip) Remaining issues on enhanced eDRX for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307420](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307420.zip) Discussion on enhanced eDRX in RRC\_INACTIVE CATT discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307448](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307448.zip) Discussion on enhanced eDRX in RRC\_INACTIVE Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307595](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307595.zip) Remaining issues of enhanced eDRX in RRC\_INACTIVE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307930](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307930.zip) Discussion on enhanced eDRX in RRC\_INACTIVE Samsung discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308307](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308307.zip) Discussion on eDRX in RRC\_INACTIVE CMCC discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308403](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308403.zip) Remaining issues for enhanced eDRX in RRC\_INACTIVE MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308407](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308407.zip) Discussion on enhanced eDRX in RRC inactive Qualcomm Incorporated discussion NR\_redcap\_enh-Core

[R2-2308806](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308806.zip) PTW configuration and fallback mechanism for RRC\_INACTIVE eDRX Ericsson discussion Rel-18 NR\_redcap\_enh-Core

### 7.19.3   Further reduced UE complexity in FR1

Early indication.

Access restrictions details for eRedCap.

*Capability related, e.g. how to define an eRedCap UE.*

*Issue of decoding Msg4.*

[R2-2307170](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307170.zip) Handling Msg4 and Msg2 with larger bandwidth Samsung Electronics Co., Ltd discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307249](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307249.zip) Discussion on Msg4 PDSCH with a larger bandwidth for eRedCap Ues OPPO discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307257](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307257.zip) Discussion on cellbarring for eRedCap UEs OPPO discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307303](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307303.zip) Discussion on access restriction for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307304](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307304.zip) Discussion on capability for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307356](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307356.zip) Discussion on early indication for eRedcap devices Xiaomi Communications discussion

[R2-2307361](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307361.zip) [Draft] Drafted LS to RAN1 on early indication for eRedcap devices Xiaomi Communications LS out Rel-18 NR\_redcap\_enh-Core To:RAN1

[R2-2307362](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307362.zip) Discussion on UE capabilities and other impacts for eRedcap devices Xiaomi Communications discussion

[R2-2307470](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307470.zip) Further discussions on early indication and access restrictions for eRedCap NEC discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307471](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307471.zip) Discussion on issue of decoding Msg4 NEC discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307485](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307485.zip) Discussion on further UE complexity reduction CEPRI, CATT discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307517](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307517.zip) On access restrictions for enhanced RedCap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307597](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307597.zip) Msg1 early indication for eRedCap UE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307659](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307659.zip) UE Capability Discussion for Rel-18 eRedCap WI Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

[R2-2307931](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307931.zip) Discussion on UE capability for eRedCap UEs Samsung discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308237](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308237.zip) Early identification and access restriction for eRedCap UEs Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308341](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308341.zip) On enhanced RedCap capabilities Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308404](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308404.zip) Open aspects of initial access for eRedCap UEs MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core R2-2305901

[R2-2308413](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308413.zip) Discussion on further complexity reduction for eRedCap UE Qualcomm Incorporated discussion NR\_redcap\_enh-Core

[R2-2308551](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308551.zip) Access restrictions for eRedCap UE Semtech Neuchatel SA discussion

[R2-2308673](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308673.zip) Considerations on Further reduced UE complexity for eRedcap Sequans Communications discussion Rel-18 NR\_redcap\_enh-Core R2-2305932

[R2-2308746](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308746.zip) Random access aspects Nokia, Nokia Shanghai Bell discussion NR\_redcap\_enh-Core

[R2-2308807](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308807.zip) Access control for BB BW reduced UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308808](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308808.zip) Capability signalling for eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308814](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308814.zip) Discussion on Cell barring for eRedCap NTT DOCOMO INC. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308825](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308825.zip) Discussion on optional UE capability filter for eRedCap UE Qualcomm Incorporated, Ericsson, Intel, ZTE, Xiaomi discussion NR\_redcap\_enh-Core R2-2305797

[R2-2308877](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308877.zip) Discussion on Msg1-based early indication for Rel-18 eRedCap UE LG Electronics Inc. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308878](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308878.zip) Discussion on MsgA based early indication LG Electronics Inc. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2308882](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308882.zip) Access restrictions for eRedCap Nordic Semiconductor ASA discussion

## 7.20 NR MIMO evolution

(NR\_MIMO\_evo\_DL\_UL-Core; leading WG: RAN1; REL-18; WID: RP-223276)

Time budget: 0.75 TU

Tdoc Limitation: 3 tdoc

### 7.20.1   Organizational

Rapporteur input, incoming LS etc.

[R2-2307018](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307018.zip) Reply on LS 2TA for multi-DCI multi-TRP (R1-2306249; contact: Ericsson) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL-Core To:RAN2

[R2-2308342](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308342.zip) Running CR for MIMO Evolution Ericsson CR Rel-18 38.331 17.5.0 4242 - B NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308358](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308358.zip) Excel in R1-2306271 with rapporteur comments. Ericsson discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

### 7.20.2   Two TAs for multi-DCI multi-TRP

RAN2 impacts of two TAs for multi-DCI multi-TRP operation, including output of email discussion [852], and other potential issues if not covered by the email discussion.

[R2-2307198](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307198.zip) Discussion on multiple TAG OPPO discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307224](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307224.zip) Discussions on Two TAs for Multi-DCI Multi-TRP CATT discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307316](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307316.zip) Discussion on two TAs for multi-DCI multi-TRP Samsung discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307317](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307317.zip) Report of [Post122][852][MIMOevo] 2TAs for multi-DCI multi-TRP Samsung discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307354](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307354.zip) Discussion on modeling for PTAG SHARP Corporation discussion NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307355](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307355.zip) Discussion on two TAs for multiple TRPs SHARP Corporation discussion NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307406](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307406.zip) Considerations on multi-DCI multi-TRP operation with two Tas Fujitsu discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307465](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307465.zip) On 2TA operation Ericsson discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307614](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307614.zip) Two TAs for multi-DCI multi-TRP Huawei, HiSilicon discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307673](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307673.zip) TAT expiry and TAG modeling Xiaomi discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307805](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307805.zip) Discussion on TA maintenance in two TAs for multi-TRP LG Electronics Inc. discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307847](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307847.zip) Support of Two TAs for multi-DCI multi-TRP Apple discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307899](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307899.zip) Discussion on two TAs for multi-DCI multi-TRP FGI discussion

[R2-2307951](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307951.zip) Discussion on TAG Management for Multi-TRP NEC Corporation discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308028](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308028.zip) Discussion on the impacts of Two TAs for multi-DCI multi-TRP operation Lenovo discussion Rel-18

[R2-2308029](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308029.zip) Discussion on the UE-initiated RACH procedure in multi-TRP operation Lenovo discussion Rel-18

[R2-2308030](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308030.zip) Consideration on RLF in multi-TRP operation Lenovo discussion Rel-18

[R2-2308414](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308414.zip) Discussion on multi-DCI multi-TRP with two TAs Qualcomm Incorporated discussion NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308530](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308530.zip) UL time alignment in multi-DCI based multi-TRP with two TAs InterDigital discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308816](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308816.zip) Open issues on Two TAs for multi-DCI multi-TRP NTT DOCOMO INC. discussion Rel-18

[R2-2308842](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308842.zip) Consideration on the RRC parameter for 2TA ZTE Corporation,Sanechips discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308843](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308843.zip) Further consideration on the PCell Configured with two TA ZTE Corporation,Sanechips discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308928](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308928.zip) RA procedure while SpCell is configured with 2 TAGs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

### 7.20.3   Unified TCI extension to mTRP operation

RAN2 impacts of unified TCI extension to mTRP operation, including the cases for sDCI and mDCI.

[R2-2307199](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307199.zip) Discussion on MAC CE design for mTRP OPPO discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307225](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307225.zip) Discussion on Unified TCI Framework Extension for sDCI based Multi-TRP CATT discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

R2-2307334 Discussion on multi-TRP with unified TCI states Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core Withdrawn

[R2-2307466](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307466.zip) On uTCI operation Ericsson discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307615](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307615.zip) Extension of unified TCI framework for mTRP Huawei, HiSilicon discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307695](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307695.zip) Single-DCI based unified TCI extension to multi-TRP operation Samsung discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307806](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307806.zip) Discussion on impact of multi-TRP on MAC CE LG Electronics Inc. discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308415](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308415.zip) Discussion on unified TCI framework extension for mTRP Qualcomm Incorporated discussion NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308817](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308817.zip) Open issues on Unified TCI framework extension NTT DOCOMO INC. discussion Rel-18

[R2-2308844](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308844.zip) Further consideration on unified TCI State Extension for SDMT ZTE Corporation,Sanechips discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308920](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308920.zip) Design of mDCI MAC CE for Rel-18 MIMO Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308921](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308921.zip) Design of sDCI MAC CE for Rel-18 MIMO Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2308936](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308936.zip) Discussion on MAC-CE design for M-TRP CEWiT discussion Late

### 7.20.4   Other

Other issues if not covered by 7.20.1, 7.20.2, and 7.20.3.

This agenda item is of lower priority, i.e., it will be treated if time allows. Depending on the number of contributions/proposals, a summary of this agenda item may be used.

[R2-2307464](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307464.zip) On other parameters MIMOevo Rel18 Ericsson discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307616](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307616.zip) Intra-UE prioritization for STxMP Huawei, HiSilicon discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2307696](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307696.zip) Discussion on Rel-18 higher-layers parameter list for MIMO Samsung discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

## 7.21 Further NR coverage enhancements

(NR\_cov\_enh2-Core; leading WG: RAN1; REL-18; WID: RP-221858)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

### 7.21.1   Organizational

Incoming LSs, Rapporteur input etc, including reports from [Post122][801] and [Post122][802].

[R2-2308065](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308065.zip) Report of [Post122][802][R18CEenh-UP] UP open issues (ZTE) ZTE Corporation discussion Rel-18 NR\_cov\_enh2-Core

[R2-2308066](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308066.zip) Running CR to 38.321 for Rel-18 coverage enhancements ZTE Corporation draftCR Rel-18 38.321 17.5.0 B NR\_cov\_enh2-Core

[R2-2308659](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308659.zip) (draft CR to TS 38.300) On introduction of R18 CE-enh China Telecommunications draftCR Rel-18 38.300 17.5.0 B NR\_cov\_enh2

[R2-2308663](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308663.zip) Summary of [Post122][801][R18CEenh-CP] CP open issues (Huawei) Huawei, HiSilicon discussion NR\_cov\_enh2-Core

[R2-2308664](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308664.zip) RRC Running CR for R18 NR coverage enhancements Huawei, HiSilicon draftCR Rel-17 38.331 17.5.0 B NR\_cov\_enh2-Core

[R2-2308665](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308665.zip) Draft LS out on CFRA with MSG1 repetition Huawei, HiSilicon LS out Rel-18 NR\_cov\_enh2-Core To:RAN1

### 7.21.2   Control plane issues

Details of RACH configuration and RACH partitioning signalling and any other impacts to CP from RAN1 agreements.

[R2-2307115](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307115.zip) Further Discussion on PRACH Repetition from CP vivo discussion Rel-18 NR\_cov\_enh2-Core

[R2-2307171](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307171.zip) Remaining control plane issues of further NR Coverage Enhancements Samsung Electronics Co., Ltd discussion Rel-18 NR\_cov\_enh2-Core

[R2-2307421](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307421.zip) Discussion on IE structure for MSG1 repetition CATT discussion Rel-18 NR\_cov\_enh2-Core

[R2-2307437](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307437.zip) Further NR Coverage Enhancements CP Discussion Ericsson discussion Rel-18 NR\_cov\_enh2

[R2-2307508](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307508.zip) Discussion on control plane issues for coverage enhancement Xiaomi discussion Rel-18

[R2-2307652](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307652.zip) UL Coverage Enhancements Control Plane Qualcomm Incorporated discussion Rel-18

[R2-2307799](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307799.zip) Discussion on CP issues of Multiple PRACH Transmissions NEC Corporation discussion Rel-18 NR\_cov\_enh2-Core

[R2-2308068](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308068.zip) Remaining CP issues for CE ZTE Corporation, Sanechips discussion Rel-18 NR\_cov\_enh2-Core

R2-2308667 Discussion on RRC aspect with MSG1 repetition Huawei, HiSilicon discussion NR\_cov\_enh2-Core Late

[R2-2308670](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308670.zip) Discussion on RRC aspect with MSG1 repetition Huawei, China Southern Power Grid, HiSilicon discussion NR\_cov\_enh2-Core

[R2-2308879](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308879.zip) Signalling aspects for Msg1 repetition LG Electronics Inc. discussion Rel-18 NR\_cov\_enh2-Core

### 7.21.3   User plane issues

Overall RACH procedure and any other MAC impacts

[R2-2307116](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307116.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307116.zip) Further Discussion on PRACH Repetition from UP vivo discussion Rel-18 NR\_cov\_enh2-Core

[R2-2307172](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307172.zip) Remaining user plane issues of further NR Coverage Enhancements Samsung Electronics Co., Ltd discussion Rel-18 NR\_cov\_enh2-Core

[R2-2307422](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307422.zip) Discussion on UP issues for MSG1 repetition CATT discussion Rel-18 NR\_cov\_enh2-Core

[R2-2307425](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307425.zip) Further NR Coverage Enhancements UP Discussion Ericsson discussion Rel-18 NR\_cov\_enh2

[R2-2307509](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307509.zip) Discussion on user plane issues for coverage enhancement Xiaomi discussion Rel-18

[R2-2307653](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307653.zip) UL Coverage Enhancements User Plane Qualcomm Incorporated discussion Rel-18

[R2-2307801](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307801.zip) Discussion on UP issues of Multiple PRACH Transmissions NEC Corporation discussion Rel-18 NR\_cov\_enh2-Core

[R2-2308067](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308067.zip) Remaining UP issues for CE ZTE Corporation, Sanechips discussion Rel-18 NR\_cov\_enh2-Core

[R2-2308392](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308392.zip) Multiple PRACH transmissions – UP aspects InterDigital discussion Rel-18 NR\_cov\_enh2-Core

[R2-2308666](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308666.zip) Discussion on MAC aspect with MSG1 repetition Huawei, HiSilicon discussion NR\_cov\_enh2-Core

[R2-2308880](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308880.zip) RA procedure to support Msg1 repetition LG Electronics Inc. discussion Rel-18 NR\_cov\_enh2-Core

[R2-2308929](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308929.zip) UP impacts of PRACH CE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_cov\_enh2-Core

[R2-2308930](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308930.zip) PRACH CE fallback cases Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_cov\_enh2-Core

## 7.22 Study on low-power wake-up signal and receiver for NR

(FS\_NR\_LPWUS; leading WG: RAN1; REL-18; WID: RP-222644)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

### 7.22.1   Organizational

Incoming LSs, Rapporteur input etc.

[R2-2307305](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307305.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307305.zip) Work Plan for Rel-18 SI on LP-WUS/WUR vivo (Rapporteur) discussion Rel-18 FS\_NR\_LPWUS

* Noted

[R2-2307306](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307306.zip) Update of TR 38.869 for LP-WUS WUR vivo (Rapporteur) discussion Rel-18 FS\_NR\_LPWUS

* TR update in post meeting email disc.

### 7.22.2   Idle Inactive Mode

General

Offline (will CB on-line),(vivo) Objective: identify technical common grounds / progress points / potential agreements, identify Discussion points and FFSes. Avoid open ended agreements such that RAN2 shall study.

Scope: include e.g. FFSes from last meeting, maybe: additional R2 aspects of LP-WUS entry/exit criteria (actual criteria may be R1 territory), Use cases of LP-WUS beyond pure paging (e.g. short message cases like ETWS), reuse/use of legacy paging functionality, subgouping and reuse/use of PEI, to what extent Network need/may have knowledge whether UE monitors LR or MR, UE level of readiness to use MR when in (ultra-)deepsleep (possibly: consequences of being out of MR coverage, consequences of not maintaining SI for access etc), Potential impacts to higher layer TSes to support mobility in (ultra-)deepsleep mode (camping, RRM, cell reselection?).

Limit: No more than 15-20 proposals.

- Lenovo think offline discussion is good. QC also support this offline.

R2-2309267

DISCUSSION P1-P5

- P3: Vodafone wonder is it is assumed that MR and LR are both possible. Vivo think this is the entry condition. After the enter deepsleep the UE will not use MR.

- OPPO wonder if coverage of LR is different than cov of MR. Thikn this has not been decided yet. Vivo think R1 has agreed

* Proposal 1. Entry/exit condition(s) of using LP-WUS is configured in SIB.
* Proposal 2: FFS via RRC dedicated signaling, e.g. by RRC release.
* Proposal 3: Entry condition(s) of using LP-WUS include at least good serving cell quality, e.g. the serving cell quality measurement on LR and/or serving cell quality measurement on MR is better than configured threshold(s) in SIB. Other condition(s) is not precluded/FFS.
* Proposal 4: UE stops using LP-WUS when exit condition(s) configured in SIB is fulfilled. The exit condition(s) includes at least out of coverage of LP signaling, e.g. the serving cell quality measured by LR is less than the configured threshold in SIB, FFS on measurement on MR.
* Proposal 5: FFS the serving cell quality measurement on LR is based on LP-SS and/or SSB (pending RAN1 dicision).
* Proposal 6: After waking up by a LP-WUS, capture the below solutions in the TR:

Alt 1.1: UE could monitor paging DCI/paging;

Alt 1.2: UE could monitor PEI, if configured and supported; FFS details on using LP-WUS and PEI together, e.g. subgrouping

FFS Alt 2: UE could perform random access directly, FFS on whether and what condition/requirement is needed. R2 assumes that this require that LP-WUS includes UE\_ID or equivalent. (Depends on LP-WUS capacity to carry information)

* Proposal 7: For Alt.1 above, after waking up by a LP-WUS, RAN2 assumes the baseline is the UE monitors the legacy PO.
* Proposal 8-1: RAN2 consider the subgrouping methods for LP-WUS (if supported) includes the CN assigned and/or UE\_ID based subgrouping, which are similar to the PEI subgrouping methods. Details determined during WI phase.
* Proposal 8-2: The number of subgroups depends on the decision on payload of LP-WUS in RAN1.
* Proposal 11: Capture the below pros/cons in the TR on whether there is necessarity for the network to be aware of whether an idle/inactive UE is monitoring LP-WUS or not. Details to be updated during TR drafting.
* Baseline (for further update):

|  |  |  |
| --- | --- | --- |
|  | Network knows whether UE monitors LR or MR | Network does not know whether UE monitors LR or MR |
| Pros | Reduce Uu resource consumption:  NW only **sends LP-WUS** when the target UE is monitors LP-WUS;  Lower false wake-up rate:  When LP-WUS is not sent, the other UE monitoring LP-WUS, which is in the same group with the target paging UE, will not be waken up as a result of false wake up. | Since the UE needs not to inform the NW whether its MR is monitoring or not, the  signalling overhead, Uu resource consumption, UE power consumption caused by MR state report does not exist. |
| Cons | More signalling overhead:  UE needs to inform the NW when it starts/stops monitoring with MR.  Uu resource consumption caused by more signalling overhead.  More UE power consumption caused by more signalling overhead. | More Uu resource consumption：NW always send LP-WUS signal given it always assume the target UE is monitoring the LP-WUS.  More alarm rate of LP-WUS: in case the target UE is not monitoring LP-WUS, the other UE(monitoring the same LP-WUS as the target UE) will be waken up. |

* Proposal 12: For UE in RRC\_IDLE/RRC\_INACTIVE state, FFS on whether there is need for the network to be aware of whether the UE is monitoring LP-WUS or not.
* Proposal 14-1: R2 assumes In ultra-deep-sleep, RRM measurement on serving cell via MR is relaxed (may include no measurement) if RRM measurement on LR is feasible/supported. FFS on the details, e.g. how to relax, in which condition,.
* Proposal 14-2: R2 assumes In ultra-deep-sleep, RRM measurement on neighboring cell via MR is relaxed (may include no measurement) if RRM measurement on LR is feasible/supported. FFS on the details, e.g. how to relax, in which condition,.
* Proposal 15: R2 assumes FFS on the RRM measurement for neighboring cell by LR as well as corresponding cell (re-) selection.
* Proposal 18: FFS to what extent UE maintains valid SI in case UE’s MR is in ultra-deep sleep state.
* ?? Proposal 19: R2 assumes that the Network may have the need to wake up UE by LP-WUS from ultra-deep sleep whenever there is ETWS/CMAS information etc, applicability to SI change notification FFS

**Proposal 20: Capture the below pros and cons in the TR on including the notification of ETWS/CMAS or SI change in LP-WUS:**

* **Pros: Reduce the latency for reception, especially for ETWS/CMAS, and more power saving gain due to no need to receive short message.**
* **Cons: More payload in LP-WUS.**

**Proposal 21: RAN2 assumes that including the notification of ETWS/CMAS or SI change in LP-WUS is beneficial for the latency of waking up from ultra-deep sleep. It depends on the payload of LP-WUS designed by RAN1 in addition to UE subgrouping.**

**Proposal 22: The discussion on whether including RNAC/TAC/cell information in LP-WUS depends on the discussion on functionality for mobility (it is related to neighobouring cell measurement, which is FFS)**

Tdocs

[R2-2308809](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308809.zip) LP-WUS/WUR for RRC Idle and Inactive Ericsson discussion Rel-18 FS\_NR\_LPWUS

- Ericsson explains that we will make decisions that are dep on performance.

- vivo think this is helpful. R1 does the perf evaluations, and R2 may need to use some of those

* Noted

[R2-2307082](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307082.zip) Use of low-power receiver in RRC Idle/Inactive Qualcomm Incorporated discussion Rel-18 FS\_NR\_LPWUS

[R2-2307261](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307261.zip) Discussion on coverage impact for LP-WUR OPPO discussion Rel-18 FS\_NR\_LPWUS

[R2-2307274](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307274.zip) Discussion on LP-WUS in RRC IDLE and INACTIVE Continental Automotive discussion

[R2-2307307](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307307.zip) Discussion on LP-WUS WUR in RRC\_IDLE/INACTIVE vivo discussion Rel-18 FS\_NR\_LPWUS

[R2-2307344](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307344.zip) General considerations on the procedure for RRC\_IDLE\_INACTIVE Xiaomi Communications discussion

[R2-2307423](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307423.zip) Discussion on LP-WUS in RRC\_IDLE&INACTIVE state CATT discussion Rel-18 FS\_NR\_LPWUS

[R2-2307453](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307453.zip) MR/LR UE behaviours for paging and mobility in RRC\_IDLE/INACTIVE state Huawei, HiSilicon discussion Rel-18 FS\_NR\_LPWUS

[R2-2307461](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307461.zip) Discussion on the considerations for LPWUS in RRC\_IDLE INACTIVE NEC Corporation discussion FS\_NR\_LPWUS

[R2-2307516](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307516.zip) LP-WUS in RRC IDLE and INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_LPWUS

[R2-2307591](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307591.zip) RAN2 impacts of LP-WUS in idle or inactive mode ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_LPWUS R2-2305960

[R2-2307848](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307848.zip) RAN2 impact of LP-WUS in RRC\_IDLE/INACTIVE state Apple discussion Rel-18 FS\_NR\_LPWUS

[R2-2308168](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308168.zip) Considerations on LP-WUR in RRC Idle/Inactive mode Sony discussion Rel-18 FS\_NR\_LPWUS

[R2-2308460](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308460.zip) LP-WUS in RRC Idle/ Inactive Mode Lenovo discussion Rel-18 FS\_NR\_LPWUS

[R2-2308748](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308748.zip) On LP-WUS in RRC\_CONNECTED Nokia, Nokia Shanghai Bell discussion FS\_NR\_LPWUS R2-2306312

[R2-2308828](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308828.zip) On impact to IDLE/INACTIVE procedures to support LP-WUR SAMSUNG R&D INSTITUTE INDIA discussion Rel-18

### 7.22.3   Connected Mode

[R2-2307083](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307083.zip) Use of low-power receiver in RRC Connected Qualcomm Incorporated discussion Rel-18 FS\_NR\_LPWUS

Is LPWUS in connected always used with DRX?

- QC think this depends on the use case, can also be used with PDCCH skipping.

- CATT agrees that LPWUS can be used instead of DCP, and this is the low hanging fruit. Think the use case with PDCCH skipping is complex.

- Apple think the main R2 impact is DCP like operation.

- vivo think that R1 already agreed that LPWUS shall be studied with current power saving features. R2 should include all possibilities and capture the impact.

- LG think R2 would not study PDCCH skipping, this is R1 topic

* Expect that R2 could determine how/if to integrate LPWUS with DRX, determine impact to DRX, and identify MAC issues if any, with using LPWUS in CONNECTED. Additional scope FFS
* Long post meeting email discussion, on technical proposals that are in R2 scope (can also discuss proposals in said scope that is FFS).

Shall R2 work on RRM / measurement aspects or other aspects?

- vivo and HW think R1 has decided that MR does RRM measurements

- QC think we should use LPWUS for serving cell measurements, to avoid MGaps for MR.

- Chair: R2 expect that R1 does majority of performance evaluation and thus R1 for most features need to decide what is in / out (at least for Connected mode).

[R2-2307308](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307308.zip) Discussion on LP-WUS/WUR in RRC\_Connected vivo discussion Rel-18 FS\_NR\_LPWUS

[R2-2307260](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307260.zip) Discussion on LP-WUR’s operation OPPO discussion Rel-18 FS\_NR\_LPWUS

[R2-2307345](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307345.zip) Discussing on LP-WUS monitoring for RRC\_Connected Xiaomi Communications discussion

[R2-2307424](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307424.zip) Discussion on LP-WUS in RRC\_CONNECTED state CATT discussion Rel-18 FS\_NR\_LPWUS

[R2-2307449](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307449.zip) High layer procedures for LP-WUS in RRC\_CONNECTED state Huawei, HiSilicon discussion Rel-18 FS\_NR\_LPWUS

[R2-2307462](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307462.zip) Discussion on the considerations for LPWUS in RRC\_CONNECTED NEC Corporation discussion FS\_NR\_LPWUS

[R2-2307592](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307592.zip) RAN2 impacts of LP-WUS in connected mode ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_LPWUS R2-2305961

[R2-2307849](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307849.zip) RAN2 impact of LP-WUS in RRC\_CONNECTED state Apple discussion Rel-18 FS\_NR\_LPWUS

[R2-2308461](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308461.zip) LP-WUS in RRC Connected Mode Lenovo discussion FS\_NR\_LPWUS

[R2-2308532](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308532.zip) Discussion on LP-WUS in RRC\_CONNECTED Continental Automotive discussion

[R2-2308810](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308810.zip) LP-WUS/WUR for RRC Connected Ericsson discussion Rel-18 FS\_NR\_LPWUS

## 7.23 Timing Resiliency and URLLC Enh

(NR\_TRS\_URLLC; leading WG: RAN3; REL-18; WID: RP-230754)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

[R2-2307654](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307654.zip) Clock Quality Report Delivery Qualcomm Incorporated discussion Rel-18

### 7.23.1   Organizational

Incoming LSs, Rapporteur input etc.

Expected inputs to next meeting, running CRs for the following: 38.300 [Nokia], 38.331 [Ericsson],

[R2-2307051](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307051.zip) Response to Reply LS on Proposed method for Time Synchronization status reporting to UE(s) (S1-231285; contact: Nokia) SA1 LS in Rel-18 TRS\_URLLC-NR To:CT1, RAN2 Cc:SA2, RAN3

[R2-2307791](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307791.zip) Stage 2 running CR on timing resiliency and URLLC Nokia, Nokia Shanghai Bell discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2308531](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308531.zip) Introduction of URLLC and Timing Resiliency Ericsson CR Rel-18 38.331 17.5.0 4258 - B TRS\_URLLC-NR-Core

### 7.23.2   General

No contributions on BAT offset derivation are expected

[R2-2307114](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307114.zip) Discussion on Timing Synchronization Status Monitoring vivo discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2307352](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307352.zip) RAN2 Impact of 5GS network timing synchronization status and reporting CATT discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2307502](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307502.zip) Remaining issues for NR Timing Resiliency Ericsson discussion Rel-18

[R2-2307560](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307560.zip) Discussion on remaining issues for TRS Huawei, Hisilicon, China Southern Power Grid discussion TRS\_URLLC-NR-Core

[R2-2307600](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307600.zip) Remaining issues of time synchronization status and reporting ZTE Corporation, Sanechips discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2307759](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307759.zip) Open Issues on Timing Synchronization Samsung discussion Rel-18

[R2-2307782](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307782.zip) 5GS network timing synchronization status and reporting Xiaomi discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2307792](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307792.zip) 5GS network timing synchronization status and reporting Nokia, Nokia Shanghai Bell discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2307838](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307838.zip) UE Access for 5GS Network Timing Synchronization Apple discussion DUMMY

[R2-2308308](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308308.zip) Discussion on the network timing synchronization status monitoring CMCC discussion Rel-18

[R2-2308658](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308658.zip) Discussion on Time Synchronization Status and Reporting China Telecom discussion

## 7.24 NR TEI18

Specific items may be allocated to a breakout session for treatment.

Time budget: 1 TU

### 7.24.1 TEI proposals by Other Groups

Items initiated by other groups that is/has been communicated by LS, where the other group indicate this is TEI18. (Specific other-group-WIs should use the R18 Other Agenda Item below).

General

[R2-2308269](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308269.zip) LS on Mitigation of Downgrade attacks (S3-234173; contact: Vodafone) SA3 LS in Rel-18 TEI18 To:CT1, RAN2

- QC wonder if this LS first has to be processed by CT1. VDF think that the NAS bit discussion in CT1 has converged, we can look at the CR anyway.

* Noted

Security - NAS indicated restriction of redirection to 3G

[R2-2308938](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308938.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308938.zip) Network support and clarification of redirection to 3G Vodafone, Orange, Deutsche Telekom CR Rel-18 36.331 17.5.0 4953 - B TEI18

R2-2308975 Network support and clarification of redirection to 3G Vodafone, Orange, Deutsche Telekom CR Rel-18 36.331 17.5.0 4953 1 B TEI18

- Lenovo think we also need to change CT1 TS. VDF report that CT1 has converged, and CT1 will send an LS. VDF think we can conditionally endorse anyway.

- intel wonder if CT1 will trate GERAN and UTRAN separately. VDF think CT1 will just redefine current, i.e. treat together.

- Nokia think we should just wait for CT1.

- Ericsson think we don’t need to wait, what do we expect for CT1.

- Lenovo think we need to discuss if this is mandatory for the UEs. VDF thin of course it is mandatory.

- Apple wonder about earlier releases. Chair: can think about that

- Chair: CR seems agreeable, but companies want to check more, in light of CT1 progress

* Postponed

Security - Hardcoding Reselection to GERAN

[R2-2308845](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308845.zip) Ranges and Values which might be “hard to explain” Vodafone Italia SpA, Orange, Qualcomm discussion Rel-18

- The proposal is in essence to Ignore configurations for cell reselection to GERAN and instead use hardcoded values.

- CMCC need to check. Chair: yes this is a question for operators and some offline work is needed.

- Nokia think we need to understand the problem better.

* Postpone

[R2-2308846](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308846.zip) Protection against improper reselection to GERAN Vodafone, Orange, Qualcomm CR Rel-18 36.304 17.4.0 0865 - B TEI18

Pos – Treated in Pos parallel session (Nathan)

[R2-2307009](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307009.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307009.zip) LS on 1-symbol PRS (R1-2306212; contact: ZTE) RAN1 LS in Rel-18 TEI18 To:RAN2 Cc:RAN3, RAN4

[R2-2308140](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308140.zip) Introduction of 1-symbol PRS in 38.331[1symbol\_PRS] ZTE Corporation CR Rel-18 38.331 17.5.0 4014 3 B TEI18 R2-2306793

[R2-2308141](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308141.zip) Introduction of 1-symbol PRS in 37.355[1symbol\_PRS] ZTE Corporation CR Rel-18 37.355 17.5.0 0437 3 B TEI18 R2-2306794

[R2-2308142](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308142.zip) Introduction of UE capability of 1-symbol PRS in 37.355[1symbol\_PRS] ZTE Corporation CR Rel-18 37.355 17.5.0 0453 2 B TEI18 R2-2306795

[R2-2308143](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308143.zip) Introduction of UE capability of 1-symbol PRS in 38.331[1symbol\_PRS] ZTE Corporation CR Rel-18 38.331 17.5.0 4128 2 B TEI18 R2-2306796

[R2-2308144](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308144.zip) Introduction of UE capability of 1-symbol PRS in 38.306[1symbol\_PRS] ZTE Corporation CR Rel-18 38.306 17.5.0 0923 2 B TEI18 R2-2306797

### 7.24.2 TEI proposals by RAN2

Items initiated in RAN2.

Tdoc limitation: 1 tdoc, limitation only applicable for non-previously-agreed-to-be-considered TEI proposals.

Agreed or Ongoing proposals

RedCap CFR for MBS Broadcast (endorsed CRs at 122)

[R2-2307800](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307800.zip) Further Discussion on Using RedCap-specific Broadcast CFR vivo discussion Rel-18 TEI18

- QC think ls could be ok, but we could also just bring R1 alignment CR once we have R18 TS. Ericsson agrees. ZTE think we can wait. CATT think LS is not needed.

- Chair: not so much support to send the LS.

* In RAN2 understanding, RedCap-specific broadcast CFR fully contains CORESET#0, and CD-SSB.

[R2-2308885](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308885.zip) Open Issue on RedCap CFR for MBS broadcast CATT discussion Rel-18

- QC think we could add some text for clarification in the FD of locationAndBandwidth instead.

- HW think this is related to other CR for Redcap.

* Agreeable to have some further clarification in FD (locationAndBandwidth), can work offline to update.

[R2-2308346](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308346.zip) Corrections on RedCap UE MBS Broadcast reception ZTE, Sanechips discussion Rel-18 TEI18

- QC think the proposals go too far, think we need a WI if so. Xiaomi agrees the impact here is too much.

- Chair: No support to go in this direction.

* Noted, not agreed

Inter-frequency measurements (support for this at 122, solution open)

[R2-2308332](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308332.zip) Discussion on the issue of unpredictable measurement sequence for inter-frequency measurement reporting and candidate solutions CMCC discussion Rel-18 TEI18

* Noted

[R2-2308773](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308773.zip) Discussion on unpredictable inter-frequency measurement reporting MediaTek Inc. discussion

- Mediatek presents that this is quite similar to CMCC proposal.

* Noted

[R2-2308771](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308771.zip) Discussion on the issue of unpredictable measurement report sequence vivo discussion TEI18

* Noted

[R2-2308442](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308442.zip) Priority order of inter-frequency measurements Ericsson discussion Rel-18 TEI18

* Noted

[R2-2307242](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307242.zip) Discussion on inter-frequency measurement OPPO discussion Rel-18

* Noted

[R2-2307183](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307183.zip) Simple solution on Inter-frequency measurements Lenovo discussion Rel-18

- HW think this is unclear

* noted

DISCUSSION

- CMCC think that the solutions just enhancing information in the report is not sufficient.

- CATT think that to enhance measurement behavior R4 need to be involved, and they don’t have time, prefer to just update the measurement report. Apple agree with CATT, think R2 cannot pursue this without R4.

- Apple think that e.g. having conditions like MTK alt 2 could be acceptable,

- vivo think that networks should configure limited freq, just want to enhance measurement report.

- QC think enhancement to measureemt report is unly useful if the measurement behaviour is good. We need to take the direction to enhance behaviour.

- HW also think we need enhanced behaviour.

- Lenovo wonders how the network will make sequence/priority? Based on what information? CMCC think this related to coverage and service/voice support.

Discussion

1. Goal to Enhance measurement behaviour: Define a sequence or priority etc for intra/inter-RAT inter-frequency measurement.
   1. UE shall follow the sequence, with R4 req (R4), or best effort (no req).
   2. Higher priority items in the sequence, condition for reporting (R2)
2. Enhance measurement report information, so that the network can know if the interesting freq has been evaluated or not.

* RAN2 introduces recommended sequence for intra/inter-RAT inter-frequency measurement (not intend to request R4 work in Rel-18). FFS how this is captured in the TS.

Chair: CRs next meeting

CG-SDT ext periodicity – agreable at 122 if R1 impact ok – wait for LS from R1

[R2-2307537](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307537.zip) Extended periodicity for CG-SDT ZTE Corporation, Sanechips discussion

[R2-2307802](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307802.zip) Discussion on longer periodicity for CG-SDT NEC Corporation discussion Rel-18 TEI18

[R2-2307957](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307957.zip) Discussion on adding longer CG-SDT periodicities Ericsson discussion Rel-18 TEI18

DC loc reporting overhead - on the table at 122 – not yet agreed

[R2-2307335](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307335.zip) Signalling overhead reduction of DC location reporting signalling [DCLoc-Overhead] Nokia, Nokia Shanghai Bell discussion Rel-18 TEI18 R2-2304877

- QC wonder whether a new scenario inter-UE is assumed. Nokia think this was discussed in RAN4. Apple has similar thoughts

- Ericsson wonder how much signalling is saved. Nokia think this just filters out non-needed information.

- Chair: No support

* Noted, not agreed

New proposals

MBS - PTM retransmission by UEs without HARQ feedback

[R2-2307974](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307974.zip) PTM retransmission reception by UEs without HARQ feedback Nokia, Nokia Shanghai Bell, AT&T, Qualcomm discussion Rel-18 NR\_MBS-Core

- CATT think this was discussed for Rel17 and was decided to not be pursued.

- LG agrees with CATT, think O2 is UE impl and if this can be done by UE impl then we can leave it 100% to UE impl.

- Ericsson support this, think it is at least related to UE caps.

- QC think this is needed.

- Samsung think that if leaving to UE impl, the network cannot know at all which UE is receiving. UEs that follow the spec will not receive.

- HW think HARQ feedback would be enabled if reliability is needed.

- AT&T think this is good for network capacity.

- HW think we need to understand how to start of the timer, current criterion is based on transmission of the feedback.

- LG think UE cannot know other UEs behaviour, so this may be complex.

* There is support to do Option1, however there are comments on MAC TS impact, we look at solution next meeting, and attempt to converge.

DAPS enhancement

[R2-2307965](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307965.zip) Enhancement to maintain high data rate during DAPS handover Huawei, HiSilicon, China Telecom, China Unicom, CMCC discussion Rel-18 TEI18

=> Revised in [R2-2308945](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308945.zip)

[R2-2308945](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308945.zip) Enhancement to maintain high data rate during DAPS handover Huawei, HiSilicon, China Telecom, China Unicom discussion Rel-18 TEI18

- Chian unicom think DAPS is a good feature, but enhancements are needed, to keep user experience good.

- Chair: There is some interest, and also some negative comment, a loft of questions. After one round of comments collection it seems clear that the issue is not well known, solution(s) many be many, and this will take more time than reasonable for TEI.

* Not agreed

RRC Segmentation

[R2-2307851](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307851.zip) RRC segment transmission continuity Apple discussion Rel-18 TEI18, NR\_newRAT-Core

- OPPO wonder if this is for NAS layer only?

- Apple think QoE is one example, AIML by CP is another example.

- Ericsson think it is not clear how useful this could be.

- Intel think this could be useful for AIML could be discussed in rel-19

- MTK think this is not urgent, would prefer todiscuss next rel.

- OPPO think upper layer could do the segmentation.

- Chair: this is obviously not for SRB1 etc. think it would be good to avoid discuss how handover is handled for every WI that need this kind of transmissions, e.g. QoE.

* Noted

SL Relay - Treated in Pos parallel session (Nathan)

PosL2RemoteUE

[R2-2308485](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308485.zip) Relay based Positioning posSIB forwarding Ericsson, Deutsche Telekom, AT&T discussion Rel-18

[R2-2308486](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308486.zip) Information on posSIBs relaying to remote UE [PosL2RemoteUE] Ericsson, Deutsche Telekom, AT&T CR Rel-18 38.331 17.5.0 4254 - B TEI18

[R2-2308487](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308487.zip) Information on posSIBs relaying to remote UE Ericsson, Deutsche Telekom, AT&T draftCR Rel-18 38.455 17.5.0 B TEI18

[R2-2308695](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308695.zip) Discussion on positioning support for L2 U2N remote UE Samsung discussion Rel-18 TEI18

Miscellaneous

[R2-2307237](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307237.zip) Discussion on emergency cause value for SL Relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core, TEI18

[R2-2307176](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307176.zip) Paging Cause forwarding Samsung Electronics Co., Ltd discussion Rel-18 TEI18

[R2-2307694](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307694.zip) Discussion on MUSIM paging cause forwarding vivo discussion Rel-18

[R2-2308932](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308932.zip) Considerations on voice and video support for Relays Philips International B.V., FirstNet, InterDigital, KPN, TNO, discussion Rel-18 R2-2306516

Pos – Treated in Pos parallel session (Nathan)

[R2-2307342](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307342.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307342.zip) Multiple QoS for positioning MediaTek Inc. discussion Rel-18 TEI18

[R2-2307757](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307757.zip) Support for SSR Satellite PCV Residuals Swift Navigation discussion

[R2-2308193](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308193.zip) NavIC L5 A-GNSS support updates to RRC protocol specification Reliance Jio CR Rel-18 38.331 17.5.0 4234 - F TEI18

[R2-2308489](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308489.zip) Adding support for Bluetooth AoA/AoD Ericsson, AT&T, Polaris Wireless, u-blox discussion Rel-18

[R2-2308830](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308830.zip) Introduction of ‘multiple QoS’ class in positioning Samsung Electronics Romania discussion

WithDrawn

R2-2308641 Discussion on UE behaviours of delay measurements upon MO updates Huawei, HiSilicon discussion Rel-18 TEI18 Withdrawn

[R2-2308848](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308848.zip) Network support and clarification of redirection to 3G Vodafone, Orange CR Rel-18 36.331 17.5.0 4951 - B TEI18 Withdrawn

## 7.25 R18 Other

Specific items may be allocated to a breakout session for treatment.

Impacts from Other RAN WGs and TSGs that has no separate TU budget in RAN2. LS ins for Rel-18 specific WIs/SIs that has no RAN WI.

Time budget: 2 TU

Tdoc Limitation: -

### 7.25.1 RAN4 led items

Ls in No action

[R2-2307019](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307019.zip) Reply LS on RS supported for group-based reporting (R1-2306257; contact: Ericsson) RAN1 LS in Rel-18 NR\_FR2\_multiRX\_DL-Core To:RAN4 Cc:RAN2

Chair: Propose Noted without presentation

* noted

NS values extension

[R2-2307036](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307036.zip) Response LS on extending the maximum range for NS values (R4-2306560; contact: Apple) RAN4 LS in Rel-18 NR\_unlic\_enh To:RAN2

[R2-2307047](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307047.zip) Response LS on extending the maximum range for NS values (R4-2310474; contact: Apple) RAN4 LS in Rel-18 NR\_unlic\_enh To:RAN2

* both noted

[R2-2307877](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307877.zip) Addition of extended number range for NS value Apple, Ericsson, Lenovo CR Rel-17 38.331 17.5.0 3900 5 F NR\_unlic\_enh R2-2306779

[R2-2307878](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307878.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2307878.zip) Addition of extended number range for NS value Apple, Ericsson, Lenovo CR Rel-17 36.331 17.5.0 4917 5 F NR\_unlic\_enh R2-2306780

Both Revised:

[R2-2309168](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2309168.zip) Addition of extended number range for NS value Apple, Ericsson, Lenovo CR Rel-17 38.331 17.5.0 3900 6 F NR\_unlic\_enh R2-2306779

[R2-2309169](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2309169.zip) Addition of extended number range for NS value Apple, Ericsson, Lenovo CR Rel-17 36.331 17.5.0 4917 6 F NR\_unlic\_enh R2-2306780

* both agreed

Air-To-Ground

[R2-2307037](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307037.zip) LS on UE features for NR ATG (R4-2309797; contact: CMCC) RAN4 LS in Rel-18 NR\_ATG-Perf To:RAN1 Cc:RAN2

* noted

[R2-2307038](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307038.zip) Reply LS on applicability of SIB19 for NR ATG (R4-2310058; contact: Qualcomm) RAN4 LS in Rel-18 NR\_ATG-Core To:RAN2

- CATT think there are two koffset parmeters, UE spec, and cell spec. CMCC reports that R4 is still discussing this. QC think the default is a cell specific koffset, and this particular LS refers to cell specific koffset.

- Ericsson wonder how this it specified in R1 TS, think some of this is specified specifically for NTN. QC think R1

* noted

[R2-2307040](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307040.zip) LS on signaling for NR ATG (R4-2310152; contact: Ericsson) RAN4 LS in Rel-18 NR\_ATG-Core To:RAN2

- CATT think that if there is no indication then UE shall apply set1.

- R2 can support this

- CMCC think HST requirements are per carrier, think that this case is cell specific,

* noted

[R2-2307630](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307630.zip) Discussion on the support of Air to ground access Qualcomm Incorporated discussion Rel-18 NR\_ATG-Core

P4

- Nokia think R4 leads this work and can request R1 to work if needed. QC think we can also wait with this.

P5

- Samsung think reuse of SIB19 is good, think a lot of things from SIB19 is reused. Nokia think it is better to have a new SIB but maturity is low.

- CMCC think we should aks R4 whethr TA report is needed

* RAN2 assumes that a new SIB would be defined for ATG, can be revisited if there are reasons, after more progress
* For ATG access, the SIB includes location information , FFS if using the format as defined in SIB19 and includes optional cellSpecificKoffset, FFS using the same format defined in NTN-Config-r17.
* Include 1 bit of information in the SIB to indicate whether the UE applies Set 1 (Rel-17 HST) cell reselection requirements or Set 2 (Rel-15 NR) cell reselection requirements for inter-frequency cell reselection.

- FFS whether cell reselection requirement set1 set2 are mandatory for UEs or e.g. whether there is a default, can ask R4 about this.

- ZTE think we can also ask whether location is 3D (with hight) or 2D location. QC think we don’t need to ask

* Offline 030 on Reply LS to RAN4 (QC)

- Thursday: CATT reports that R4 is working on a LS to R2, possibly this LS is not needed.

[R2-2307276](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307276.zip) Discussion on open issues of ATG CATT discussion Rel-18 NR\_ATG-Core

[R2-2307457](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307457.zip) Discussion on SI for ATG Ericsson discussion Rel-18 NR\_ATG-Core

[R2-2307510](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307510.zip) Discussion on the support of ATG Xiaomi discussion Rel-18

[R2-2307575](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307575.zip) On RAN2 Impacts of Air-To-Ground (ATG) in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ATG-Core

[R2-2308070](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308070.zip) Discussion on ATG ZTE Corporation, Sanechips discussion Rel-18 NR\_ATG-Core

[R2-2308847](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308847.zip) Discussion on the reply LS on applicability of SIB19 for NR ATG CMCC discussion Rel-18

[R2-2308896](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308896.zip) On air-to-ground system information and other adaptations Samsung Electronics Czech discussion Rel-18 NR\_ATG

FR2 unknown Scell Activation

[R2-2307039](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307039.zip) LS on FR2 SCell activation enhancements (R4-2310083; contact: Apple) RAN4 LS in Rel-18 NR\_RRM\_enh3 To:RAN2 Cc:RAN1

* noted

[R2-2308443](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308443.zip) Introduction of FR2 SCell enhancements Ericsson CR Rel-18 38.331 17.5.0 4252 - B NR\_RRM\_enh3

- Ericsson think that the validity condition is missing

- Apple think some details need to be discussed.

- Nokia think their proposal is similar, can be a good baseline.

- CATT and Apple agrees on new report type.

- vivo think this should be per UE.

* R2 assumes that a new reportType is used.

[R2-2307770](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307770.zip) Scell activation and L3 reporting Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_RRM\_enh3

[R2-2307850](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307850.zip) FR2 SCell Enhancement Apple discussion Rel-18 NR\_RRM\_enh3

[R2-2307278](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307278.zip) Discussion on FR2 unknown SCell activation enhancement CATT discussion Rel-18 NR\_RRM\_enh3

[R2-2308072](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308072.zip) Discussion on FR2 unknown SCell activation ZTE Corporation, Sanechips discussion Rel-18 NR\_RRM\_enh3

[R2-2308202](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308202.zip) Measurement reporting for FR2 unknown SCell activation enhancement LG Electronics Inc. discussion Rel-18

[R2-2308208](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308208.zip) RAN2 signalling design for FR2 unknown SCell activation enhancement Huawei, HiSilicon discussion Rel-18 NR\_RRM\_enh3

[R2-2308835](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308835.zip) Discussion on FR2 unknown SCell activation enhancement vivo discussion NR\_RRM\_enh3

* All noted
* CB Offline 025 converge as much as possible on a running CR (Apple).

MGE2

[R2-2307041](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307041.zip) LS on inter-RAT measurements without gaps (R4- 2310158; contact: Intel) RAN4 LS in Rel-18 NR\_MG\_enh2-Core To:RAN2

* Noted

Discussion

[R2-2308047](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308047.zip) Discussion on effective measurement window Huawei, HiSilicon discussion Rel-18 NR\_MG\_enh2

- CATT think for P2 per MO would make more sense. Other proposals ok

- MTK think per UE is sufficient, LTE measurements are simpler. LG agree with MTK, think CRS doesnt vary in time.

- ZTE think that the window is just to know when interruption may be.

* RAN2 introduce new terminology of effective measurement window and new configuration *MeasWindowConfig* for the effective measurement window, which includes *WindowOffset*, *WindowDuration*, and *WindowPeriodicity*.
* The effective measurement window is a per-UE configuration (can revisit if need is found).
* Other values of configuration for effective measurement window are pending on RAN4 further discussion.

[R2-2308071](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308071.zip) Discussion on inter-RAT LTE measurements without gap ZTE Corporation, Sanechips discussion Rel-18 NR\_MG\_enh2-Core

DISCUSSION

- MTK think P1 is a R17 change, but are ok with it. CATT agrees.

- MTK think P2 can wait until R4 feature table. CATT think we should wait for R4 feature list.

* RAN2 to clarify that value *nogap-noncsg* in the *NeedForNCSG-InfoEUTRA-r17* means no gap without interruption in the Rel-17 and Rel-18 specifications. (this is a rel-17 change, and separate CR is needed, can be provided next meeting).
* P2 postponed

[R2-2308236](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308236.zip) On inter-RAT LTE measurements without gap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MG\_enh2-Core

- already covered

* noted

[R2-2308774](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308774.zip) Discussion on inter-RAT measurements without gaps vivo discussion NR\_MG\_enh2-Core

- MTK think this is not covered by needforgap, so not needed, at least not until RAN4 has requested a new behaviour for this. Nokia agrees.

* Noted

[R2-2307275](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307275.zip) Discussion on inter-RAT LTE measurements without gap CATT discussion Rel-18 NR\_MG\_enh2-Core

* Noted.

CRs

[R2-2308766](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308766.zip) Introduction of measurements without gap with interruption MediaTek Inc., Huawei, HiSilicon CR Rel-18 36.331 17.5.0 4929 3 B NR\_MG\_enh2-Core R2-2306802

[R2-2308767](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308767.zip) Introduction of measurements without gap with interruption MediaTek Inc., Huawei, HiSilicon CR Rel-18 36.306 17.4.0 1870 3 B NR\_MG\_enh2-Core R2-2306803

[R2-2308768](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308768.zip) Running CR for further measurement gap enhancements MediaTek Inc., Huawei, HiSilicon CR Rel-18 38.331 17.5.0 4063 3 B NR\_MG\_enh2-Core R2-2306804

[R2-2308769](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308769.zip) Running CR for further measurement gap enhancements capabilities MediaTek Inc., Huawei, HiSilicon CR Rel-18 38.331 17.5.0 4286 - B NR\_MG\_enh2-Core

[R2-2308770](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308770.zip) Running CR for further measurement gap enhancements capabilities MediaTek Inc., Huawei, HiSilicon CR Rel-18 38.306 17.5.0 0906 3 B NR\_MG\_enh2-Core R2-2306805

- MTK explains that we anyway wait for frther R4 progress / LS so no need to progress the CRs now.

MSD

[R2-2307045](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307045.zip) LS on lower MSD capability (R4-2310276; contact: Huawei) RAN4 LS in Rel-18 NR\_ENDC\_RF\_FR1\_enh2 To:RAN2

* Noted

[R2-2308863](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308863.zip) Discussion on lower MSD capability Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_RF\_FR1\_enh2

P0/P1

- Xiaomi want to clarify that this is per band per BC.

- HW think a main point is that lower MSD cap is reported outside BC list.

- Nokia think we just report band pairs, RAN4 TS will specify who is the victim/aggressor.

- Ericsson agrees with P1. CATT as well.

- vivo think only aggressor band need to be indicated. P1 think it should be report per aggressor band.

P4

- Ericsson not sure why filtering is needed in this case. Signalling size is not an issue here

- OPPO support P4 50-60 bits per combination and there are many combination.

- Nokia would be ok with filtering. Although Nok think OPPOs number of combinations is exaggerated

- CATT think existing filtering field can be used,

General

- QC think whether we signal victim band or not is important.

* Lower MSD cap is reported outside BC list
* Filtering FFS (discussion postponed until more mature)
* In the signalling, victim / aggressor need to be identified

[R2-2307095](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307095.zip) Discussion on MSD Capability OPPO discussion Rel-18 NR\_ENDC\_RF\_FR1\_enh2

=> Revised in [R2-2308948](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308948.zip)

[R2-2308948](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308948.zip) Discussion on MSD Capability OPPO discussion Rel-18 NR\_ENDC\_RF\_FR1\_enh2

[R2-2307277](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307277.zip) Discussion on the support of lower MSD CATT discussion Rel-18 NR\_ENDC\_RF\_FR1\_enh2

[R2-2307336](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307336.zip) Lower MSD capability Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_RF\_FR1\_enh2-Core R2-2304879

[R2-2307543](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307543.zip) Consideration on Lower MSD Capability Signaling ZTE Corporation, Sanechips discussion Rel-18 NR\_ENDC\_RF\_FR1\_enh2

[R2-2307676](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307676.zip) Discussion on the lower MSD capability Xiaomi discussion Rel-18 NR\_ENDC\_RF\_FR1\_enh2 R2-2306375

[R2-2308495](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308495.zip) Support of lower MSD capability Ericsson discussion

[R2-2308775](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308775.zip) Discussion on lower MSD signalling vivo discussion NR\_ENDC\_RF\_FR1\_enh2

[R2-2308864](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308864.zip) Introduction of lower MSD capability Huawei, HiSilicon CR Rel-18 38.331 17.5.0 4292 - B NR\_ENDC\_RF\_FR1\_enh2

[R2-2308865](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308865.zip) Introduction of lower MSD capability Huawei, HiSilicon CR Rel-18 38.306 17.5.0 0950 - B NR\_ENDC\_RF\_FR1\_enh2

BWP wor

[R2-2307309](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307309.zip) RRM measurement for option B-1-1 and option C for BWP Wor vivo, Guangdong Genius discussion Rel-18 NR\_BWP\_wor-Core

- vivo explains that for B-1-1 R2 need to wait further for R1, but option C could be addressed.

* Noted

[R2-2307310](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307310.zip) Correction on 38.300 for BWP Wor vivo, Vodafone CR Rel-18 38.300 17.5.0 0690 - B NR\_BWP\_wor-Core R2-2304924

[R2-2307311](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307311.zip) Correction on 38.331for BWP Wor vivo CR Rel-18 38.331 17.5.0 4184 - B NR\_BWP\_wor-Core R2-2304925

[R2-2307312](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307312.zip) Correction on 38.306 for BWP Wor vivo CR Rel-18 38.306 17.5.0 0926 1 B NR\_BWP\_wor-Core R2-2306328

[R2-2308453](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308453.zip) Support for BWP operation without restriction (Option C) ZTE Corporation, Sanechips discussion Rel-18 NR\_BWP\_wor-Core

* Noted

[R2-2308454](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308454.zip) Support for BWP operation without restriction ZTE Corporation, Sanechips CR Rel-18 38.300 17.5.0 0665 1 B NR\_BWP\_wor-Core R2-2304141

[R2-2308455](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308455.zip) Support for BWP operation without restriction ZTE Corporation, Sanechips CR Rel-18 38.331 17.5.0 4057 1 B NR\_BWP\_wor-Core R2-2304142

For option C

- Vivo suggest to wait for R1 input for feature list and RRC param (for BFD and RLM). The ASN,1 changes in vivo CRs are from R1 discussions and FFS if they are needed.

- Ericsson think the ZTE CRs are very minimal are preferable and could be agreed immediately.

- ZTE think we in any case need to wait for R1 for UE capability.

- Apple agree with vivo

Chair: Minimalistic change a in ZTE CRs has significant support. No urgency to agree. Wait for more R1 progress. Encourage better offline coordination.

* CRs are postponed

HST FR2 Enh

RAN2 sent LS to RAN4 from 122, wait for reply

[R2-2307769](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307769.zip) Cross RRH TCI state switch Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_HST\_FR2\_enh

[R2-2308637](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308637.zip) Discussion on MAC-CE based indication for cross-RRH TCI state switch Huawei, HiSilicon discussion Rel-18 NR\_HST\_FR2\_enh

[R2-2308638](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308638.zip) Draft CR to 38.321 for HST-FR2 Huawei, HiSilicon draftCR Rel-18 38.321 17.5.0 B NR\_HST\_FR2\_enh

[R2-2308639](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308639.zip) Draft CR to 38.331 for HST-FR2 Huawei, HiSilicon draftCR Rel-18 38.331 17.5.0 B NR\_HST\_FR2\_enh

[R2-2308640](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308640.zip) Draft CR to 38.306 for HST-FR2 Huawei, HiSilicon draftCR Rel-18 38.306 17.5.0 B NR\_HST\_FR2\_enh

DC Location Enhancement

[R2-2307046](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307046.zip) LS on Rel-17 DC location signaling enhancement (R4-2310438; contact: Apple) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

Moved here from 6

[R2-2307879](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307879.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307879.zip) Handling Rel-17 DC location signaling enhancement Apple discussion Rel-18

[R2-2308776](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308776.zip) Discussion on DC location signaling enhancement vivo discussion NR\_RF\_FR2\_req\_enh2-Core

[R2-2308064](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308064.zip) Consideration on DC location reporting ZTE Corporation, Sanechips discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

Moved here from 6

### 7.25.2 RAN1 led items

E.g. MC enhancements, DSS

Multi-Carrier Enh

LS in

[R2-2307044](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307044.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307044.zip) Reply LS on report of switching periods in Rel-18 uplink Tx switching (R4-2310271; contact: NTT DOCOMO) RAN4 LS in Rel-18 NR\_MC\_enh-Core To:RAN2 Cc:RAN1

* noted

[R2-2307048](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307048.zip) LS on multi-carrier enhancement (R4-2310495; contact: vivo) RAN4 LS in Rel-18 NR\_MC\_enh-Core To:RAN1, RAN2

- Docomo reports that unaffected band case is not yet in running CR.s

- QC think R4 has complex ways to derive switching times, wonder if RAN2 need to capture any of that in RAN2 TS. Docomo think this will be in R4 TS.

- HW recommend that we postpone signalling design until R4 has progressed more

* Noted

Multi-cell scheduling

[R2-2308815](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308815.zip) On introduction of multi-cell scheduling NTT DOCOMO INC. discussion Rel-18

- At current meeting only RRC draft CR.

* Noted

[R2-2308802](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308802.zip) Draft CR for introduction of RRC configuration for multi-cell PDSCH/PUSCH scheduling NTT DOCOMO INC., Huawei, HiSilicon draftCR Rel-18 38.331 17.5.0 B NR\_MC\_enh-Core

- ZTE has less questions for Docomo CR than Xiaomi CR

- ZTE think we don’t need to send LS now. don’t know what to ask.

- QC agrees with ZTE. Can use this CR as baseline and then wait for R1.

* Use this CR as baseline, postpone further work until next update from RAN1.

[R2-2307153](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307153.zip) Discussion on RRC signalling for MC enhancements Xiaomi discussion Rel-18

* Noted

[R2-2307154](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307154.zip) Introduction of Multi-cell Scheduling Xiaomi draftCR Rel-18 38.331 17.5.0 NR\_MC\_enh-Core

Corrections TX switching

[R2-2308209](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308209.zip) Further updates to the RAN2 CRs for Rel-18 UL Tx switching enhancements Huawei, HiSilicon discussion Rel-18 NR\_MC\_enh-Core

- APPLE OK with P3 P4, for P2 have concerns, can have a fixed principle instead

- Ericsson also ok with P3 P4. P2

- QC has concerns on P3. Need to check further with R1. ZTE agrees.

- P2: OPPO think nothing is needed.

- ZTE also has concers w P2

- Huawei think R4 is working on P2 and will provide more info later.

* aligning with Rel-17 UL Tx switching, the RRC configuration *switching2T-DualUL-r18* applies to both of dualUL and switchedUL, which simplifies the UE behavior. The field name is changed to *switching2TMode-r18*
* the other P are postponed.

[R2-2308734](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308734.zip) TP to BLCR of 38 331 for RRC configuration CATT other Rel-18 NR\_MC\_enh

Discussion

P1

- OK for docomo.

- OPPO wonder why this should be mandatory.

- HW think this shall be present at first configuration, so not strictly mandatory

P2

- P2 is also ok.

- field name is switching2T-..

- OPPO are OK with P2

- HW think we should check name

- Apple think there are other cases as well

* Change the *uplinkTxSwitchingBandPairList* field to mandatory for first configuraton*.*
* CB discuss if to Specify the 1Tx-2Tx/1Tx-1Tx switching period is applied to band pair when this field is absent.

[R2-2308735](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308735.zip) Discussion on UE capability reporting (with TP to TS38.331 BLCR) CATT other Rel-18 NR\_MC\_enh

[R2-2308736](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308736.zip) Discussion on UE capability reporting (with TP to TS38.306 BLCR) CATT other Rel-18 NR\_MC\_enh

- Docomo think this is an optimization. ZTE think for P2 and P3 we already agreed last meeting to not do this. Huawei agrees this was already discussed

- CATT think we could indeed have signalling optimization.

* Noted, not agreed

### 7.25.3 Other

RAN3,

SA2, SA3, CT1 led items and others, e.g. eNPN, Slicing.

[R2-2308270](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2308270.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2308270.zip) LS on the user consent for trace reporting (S3-234267; contact: Ericsson) SA3 LS in Rel-18 eNS\_Ph3 To:RAN3 Cc: RAN2, SA5, SA1, RAN

- mislabeled LS, should be SON MDT. Anyway no action for R2 can note the LS

* Noted

Slicing

[R2-2307027](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307027.zip) Response LS on Partially Allowed/Rejected S-NSSAI (R3-233433; contact: Nokia) RAN3 LS in Rel-18 eNS\_Ph3 To:SA2 Cc:RAN2, CT1

* Noted

[R2-2308635](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308635.zip) Discussion on NAS-AS interaction of NS-AoS Huawei, HiSilicon discussion Rel-18 eNS\_Ph3

[R2-2308636](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308636.zip) CR on NAS-AS interaction of NS-AoS for TS 38.304 Huawei, HiSilicon CR Rel-18 38.304 17.5.0 0352 - B eNS\_Ph3

eNPN

[R2-2307948](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307948.zip) Discussion on remaining issues of eNPN in R18 China Telecom discussion Rel-18 eNPN\_Ph2-NGRAN-Core

P1

- Lenovo think it could also be optional without signalling. Anyway signalling not needed. Ericsson support this.

* No signalled capability on AS is needed. Expect to Capture something in 306, optional without signalling.

[R2-2307949](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307949.zip) Draft CR to TS 38.306 on introduction of R18 eNPN China Telecom draftCR Rel-18 38.306 17.5.0 B eNPN\_Ph2-NGRAN-Core

* Revised to take agreement above into account.
* Can endorse and CB next meeting

[R2-2307619](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307619.zip) Discussion on RAN impacts of further NPN enhancement Lenovo discussion Rel-18 eNPN\_Ph2-NGRAN-Core

* noted

[R2-2308048](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308048.zip) Discussion on RAN impact for NPN enhancement in Rel-18 Huawei, HiSilicon discussion Rel-18 eNPN\_Ph2

* noted

[R2-2308675](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308675.zip) Discussion on UE capability for R18 eNPN vivo discussion Rel-18

* noted

[R2-2308765](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308765.zip) Remaining issues on Further Enhancement NPN CATT discussion Rel-18 eNPN\_Ph2-NGRAN-Core

- already agreed

* noted

[R2-2308917](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308917.zip) NPN Rel-18 capabilities Ericsson discussion Rel-18 eNPN\_Ph2-NGRAN-Core

* noted

Pos – Handled in the Pos Parallel session (Nathan)

[R2-2308400](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308400.zip) On Positioning Reference Unit support in LPP Qualcomm Incorporated discussion

[R2-2308488](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308488.zip) On the Positioning Reference Units aspects Ericsson, vivo discussion Rel-18

### 7.25.4 Self-Evaluation NTN

(FS\_IMT-2020\_Sat\_eval; leading Group: TSG RAN; REL-18; WID: RP-230754)

This will be treated in NTN breakout session (Sergio).

Study on Self-Evaluation towards the 3GPP submission of a IMT-2020 Satellite Radio Interface Technology, including both NR NTN and IoT-NTN. Note that the time allocated will be very limited, and this is expected to be mostly an offline activity.

[R2-2307322](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\RAN2\\Docs\\R2-2307322.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307322.zip) Discussion on IMT-2020 Satellite self-evaluation for Latency and Mobility THALES discussion Rel-18 NR\_NTN\_enh-Perf R2-2305410

[R2-2307496](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307496.zip) Self-Evaluation for NR NTN Huawei, HiSilicon discussion Rel-18 FS\_IMT2020\_SAT\_eval

[R2-2307586](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307586.zip) On CP and UP Latency for IMT-2020 NTN Self Evaluation Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_IMT2020\_SAT\_eval

[R2-2307624](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2307624.zip) RAN2 aspects on evaluation methodology for IMT-2020 Satellite Qualcomm Incorporated discussion Rel-18 FS\_IMT2020\_SAT\_eval

[R2-2308508](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308508.zip) Self-Evaluation towards the 3GPP submission of a IMT-2020 Satellite Radio Interface Technology ZTE Corporation, Sanechips discussion Rel-18

[R2-2308903](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308903.zip) Satellite IMT-2020 self-evaluation: CP latency Ericsson discussion Rel-18

[R2-2308905](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2308905.zip) Satellite IMT-2020 self-evaluation: UP latency Ericsson discussion Rel-18

# 8 Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

## 8.1 Session on NR NTN and IoT NTN

R2-2308961 Report from Break-Out Session on NR NTN and IoT NTN Vice Chairman (ZTE) Report

## 8.2 Session on LTE legacy, XR, QoE and Multi-SIM

R2-2308962 Report from session on LTE legacy, XR, QoE and Multi-SIM Vice Chairman (Nokia) Report

## 8.3 Session on UP, Small data, URLLC/IIoT, RACH indication, NWES and UAV

R2-2308963 Report from UP, Small data, URLLC/IIoT, RACH indication, NWES and UAV Session chair (InterDigital) Report

## 8.4 Session on positioning and sidelink relay

R2-2308964 Report from session on positioning and sidelink relay Session chair (MediaTek) Report

## 8.5 Session on LTE V2X and NR SL

R2-2308965 Report from session on LTE V2X and NR SL Session chair (Samsung) Report

## 8.6 Session on SON/MDT

R2-2308966 Report from SON/MDT session Session chair (CMCC) Report

## 8.7 Session on MBS

R2-2308967 Report from MBS breakout session Session chair (Huawei) Report

## 8.8 Session on IDC

R2-2308968 Report from IDC breakout session Session chair (Intel) Report

## 8.9 Session on NC Repeater

R2-2308969 Report from NC Repeater breakout session Session chair (Apple) Report

## 8.10 Session on eRedCap

R2-2308970 Report from eRedCap breakout session Session chair (Ericsson) Report

## 8.11 Session on Further NR coverage enhancements

R2-2308971 Report from Further NR coverage enhancements session Session chair (ZTE) Report

## 8.12 Session on NR MIMO evolution

R2-2308972 Report from NR MIMO evolution session Session chair (CATT) Report