3GPP TSG-RAN WG2 Meeting #120 R2-2xxxxxx

Toulouse, France, November, 2022

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.

2/ Please don’t set your WiFi to access point mode, ad-hoc mode, or direct communication mode, as this may cause significant load.

3/ To avoid overload, please don’t use the e-meeting audio / screen sharing tool (GTW) when you are physically at the meeting. This is for remote participants.

## 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

[R2-2211100](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211100.zip) Agenda for RAN2#120 Chairman agenda

* approved

## 2.2 Approval of the report of the previous meeting

[R2-2211101](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211101.zip) RAN2#119bis-e Meeting Report MCC report Late

- Will be marked approved eom if no comments

* approved

## 2.3 Reporting from other meetings

## 2.4 Instructions

Rel-17 CR

*Chair: Note that for R2 120, Rel-17 is still in heightened maintenance mode, i.e. with merged CRs, mega CRs, and CR rapporteurs still asked to maintain their responsibilities, e.g. to facilitate editorials and text enhancements. Rel-17 may go to normal mode (separate CRs, CR rapporteurs released from their duties, high bar for text enhancements), in 2023 Q1*

General, all correction CRs / draft CRs:

1. Rapporteurs of Rel-17 WI CRs are asked to continue their volunteer responsibility.

2. Unless otherwise explicitly agreed/indicated, max one Cat F CR per TS per WI shall be produced as outcome of the meeting. Exception: CRs with release independence, NBC CRs, if any, may need to be in a separate CR per WI (decided case by case). Note that Impact analysis is required per CR.

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

- For a CR rapporteur, i.e. an Assigned Rapporteur for a CR to a TS for a WI, One Rapporteur CR for editorials, text enhancements, smaller corrections (at this time applicable to Rel-17).

- 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.

Rel-17 UE capabilities

For NR UE capabilities the following applies:

1: As previously, work on mega CRs (one mega CR for TS 38.306 and one for TS 38.331). This work is done under Agenda Item AI 6.0.2

2: Coordinate centrally incorporation in CRs of RAN1 / RAN4 features for all Rel17 WIs. This work is done under Agenda Item AI 6.0.2 and changes are done directly to the mega CRs. There could be exceptions, case by case, where RAN1 / RAN4 features are treated under a WI-specific Agenda Item instead.

3 At the end of R2 120, endorsed WI specific UE capability CRs will be merged into the mega CRs, and the mega CRs will be provided to TSG RAN. Any exception to this need to be decided case by case.

## 2.5 Others

# 3 Incoming liaisons

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

# 4 EUTRA Rel-16 and earlier

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

## 4.1 NB-IoT and eMTC corrections Rel-16 and earlier

(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).

## 4.2 V2X and Side-link corrections Rel-15 and earlier

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

## 4.3 Positioning corrections Rel-16 and earlier

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

Documents in this agenda item will be handled by email. No web conference is planned for this agenda item.

## 4.4 Other LTE corrections Rel-16 and earlier

(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)

(Documents relating to Rel-16 LTE but for which there is no existing RAN WI/SI, e.g. LSs from CT/SA requesting RAN2 action)

Including TEI16, TEI15 etc corrections and issues that do not fit under any other topic.

For LTE mobility enhancements, only corrections that are LTE-specific should be submitted to this AI. Corrections that impact or are common with NR mobility enhancements should be submitted to 5.1.X instead.

[R2-2211108](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211108.zip) Reply LS on the CSI periodic reporting for Dormant SCell state (R1-2208258; contact: Samsung) RAN1 LS in Rel-15 LTE\_euCA-Core To:RAN2

[R2-2211187](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211187.zip) Correction on measurement reporting for interference detection in UAV Samsung Electronics Co., Ltd CR Rel-15 36.300 15.13.0 1371 - F LTE\_Aerial-Core

[R2-2211188](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211188.zip) Correction on measurement reporting for interference detection in UAV Samsung Electronics Co., Ltd CR Rel-16 36.300 16.8.0 1372 - A LTE\_Aerial-Core

[R2-2211189](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211189.zip) Correction on measurement reporting for interference detection in UAV Samsung Electronics Co., Ltd CR Rel-17 36.300 17.2.0 1373 - A LTE\_Aerial-Core

[R2-2211386](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211386.zip) Correction on PDCP Control PDU for UDC feedback CATT, LG Electronics, Mediatek, Huawei, HiSilicon, CMCC CR Rel-15 36.323 15.7.0 0302 - F LTE\_UDC-Core

[R2-2211387](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211387.zip) Correction on PDCP Control PDU for UDC feedback CATT, LG Electronics, Mediatek, Huawei, HiSilicon, CMCC CR Rel-16 36.323 16.6.0 0303 - A LTE\_UDC-Core

[R2-2211388](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211388.zip) Correction on PDCP Control PDU for UDC feedback CATT, LG Electronics, Mediatek, Huawei, HiSilicon, CMCC CR Rel-17 36.323 17.1.0 0304 - A LTE\_UDC-Core

[R2-2212219](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212219.zip) Discussion on RAN2 impacts for the CSI periodic reporting for Dormant SCell state Huawei, HiSilicon discussion Rel-17 TEI17

R2-2212343 Correction to T331 handling Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.19.0 4891 - F LTE\_euCA-Core Withdrawn

R2-2212344 Correction to T331 handling Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.10.0 4892 - A LTE\_euCA-Core Withdrawn

R2-2212345 Correction to T331 handling Nokia, Nokia Shanghai Bell CR Rel-17 36.331 17.2.0 4893 - A LTE\_euCA-Core Withdrawn

[R2-2212602](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212602.zip) Support of Multiple CSI Subframe Sets on CQI-ReportPeriodicScell Samsung discussion Rel-15 LTE\_euCA-Core

[R2-2212763](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212763.zip) PDCP control PDU for UDC feedback LG Electronics Inc. CR Rel-15 36.323 15.7.0 0305 - F LTE\_UDC-Core

[R2-2212764](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212764.zip) PDCP control PDU for UDC feedback LG Electronics Inc. CR Rel-16 36.323 16.6.0 0306 - A LTE\_UDC-Core

[R2-2212765](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212765.zip) PDCP control PDU for UDC feedback LG Electronics Inc. CR Rel-17 36.323 17.1.0 0307 - A LTE\_UDC-Core

[R2-2212766](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212766.zip) Data available transmission for DAPS LG Electronics Inc. CR Rel-16 36.323 16.6.0 0308 - F LTE\_feMob-Core

[R2-2212767](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212767.zip) Data available transmission for DAPS LG Electronics Inc. CR Rel-17 36.323 17.1.0 0309 - A LTE\_feMob-Core

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 10 tdocs in total for all sub agenda items.

## 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

PWS

[R2-2212302](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212302.zip) Enhancements of Public Warning System Ericsson, Nokia (Rapporteur) discussion Rel-16 NR\_newRAT-Core

DISCUSSION

* HW think ETWS was in Rel 16 so rel 16
* HW think the TP is quite ok but could use some simplification.
* Clarify in 38.300 that ETWS/CMAS warning messages with ePWS functionality use the same AS mechanisms as ETWS/CMAS, from Rel 16

CB for CR offline 002 (Ericsson)

[R2-2213296](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213296.zip) Clarification for ePWS Ericsson, Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.11.0 0600 - F NR\_newRAT-Core

[R2-2213297](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213297.zip) Clarification for ePWS Ericsson, Nokia, Nokia Shanghai Bell CR Rel-16 38.300 17.2.0 0601 - A NR\_newRAT-Core

* Both: Contents agreed, need to add TEI16 WI code on the cover sheet, in R2-2213309, R2-2213310
* Revisions are agreed unseen

IAB

[R2-2212611](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212611.zip) Correction on F1-C Traffic Transfer for EN-DC of IAB Huawei, HiSilicon CR Rel-16 37.340 16.11.0 0354 - F NR\_IAB-Core

* Chair wonder if cat D. ZTE think not.
* Ericsson wonder if we should also capture SN to MN. HW think the intention is only to fix rel16 thinks. Samsung agrees the figure need to change and support, but not sure the editorial is needed.
* Nokia agrees to the picture change, think the editorial change is not needed.
* Figure change is agreeable (rel16)

CB for CR offline 003 (HW)

[R2-2212998](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212998.zip) Correction on F1-C Traffic Transfer for EN-DC of IAB Huawei, HiSilicon CR Rel-16 37.340 16.11.0 0354 1 F NR\_IAB-Core

* agreed

[R2-2212612](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212612.zip) Correction on F1-C Traffic Transfer for EN-DC of IAB Huawei, HiSilicon CR Rel-17 37.340 17.2.0 0355 - A NR\_IAB\_enh-Core

* Not pursued

CHO

[R2-2212469](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212469.zip) Discussion on CHO signaling flow Ericsson discussion Rel-16 NR\_Mob\_enh-Core

* OPPO think this should be discussed in R3
* HW think this is not needed, due to detailed level. Vivo think this could be sent to target.
* R3 topic

Handover

[R2-2212775](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212775.zip) Correction on RLC re-establishment in handover vivo CR Rel-15 38.300 15.13.0 0591 - F NR\_newRAT-Core

* Nokia point out that we currently done support data recovery without RLC reest. QC agrees and think we can omit both if we omit anything
* No support, not pursued

[R2-2212776](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212776.zip) Correction on RLC re-establishment in handover vivo CR Rel-16 38.300 16.10.0 0592 - A NR\_newRAT-Core

[R2-2212777](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212777.zip) Correction on RLC re-establishment in handover vivo CR Rel-17 38.300 17.2.0 0593 - A NR\_newRAT-Core

### 5.1.2 User Plane corrections

User Plane corrections will be handled in Diana’s break out session.

#### 5.1.2.1 MAC

[R2-2212138](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212138.zip) Clarification on HARQ buffers flushing Samsung R&D Institute India CR Rel-15 38.321 15.13.0 1485 - F NR\_newRAT-Core

[R2-2212140](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212140.zip) Clarification on HARQ buffers flushing Samsung R&D Institute India CR Rel-16 38.321 16.10.0 1486 - A NR\_newRAT-Core

[R2-2212141](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212141.zip) Clarification on HARQ buffers flushing Samsung R&D Institute India CR Rel-17 38.321 17.2.0 1487 - A NR\_newRAT-Core

[R2-2212862](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212862.zip) Correction to avoid overwriting of MAC PDU in AutonomousTx Samsung CR Rel-16 38.321 16.10.0 1498 - F NR\_IIOT-Core

[R2-2212863](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212863.zip) Correction to avoid overwriting of MAC PDU in AutonomousTx Samsung CR Rel-17 38.321 17.2.0 1499 - A NR\_IIOT-Core

[R2-2212860](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212860.zip) Correction on Type 1 CG occasion determination at BWP activation Samsung CR Rel-16 38.321 16.10.0 1496 - F NR\_IIOT-Core, 5G\_V2X\_NRSL-Core

[R2-2212861](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212861.zip) Correction on Type 1 CG occasion determination at BWP activation Samsung CR Rel-17 38.321 17.2.0 1497 - A NR\_IIOT-Core, 5G\_V2X\_NRSL-Core

#### 5.1.2.2 RLC PDCP SDAP BAP

[R2-2212761](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212761.zip) Data volume calculation LG Electronics Inc. CR Rel-16 38.323 16.7.0 0110 - F NR\_Mob\_enh-Core

[R2-2212762](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212762.zip) Data volume calculation LG Electronics Inc. CR Rel-17 38.323 17.2.0 0111 - A NR\_Mob\_enh-Core

[R2-2212117](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212117.zip) Alignment of procedural text for PDCP control PDU handling Huawei, HiSilicon CR Rel-17 38.323 17.2.0 0107 - A NR\_newRAT-Core

Moved from 5.1.2

[R2-2212118](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212118.zip) Alignment of procedural text for PDCP control PDU handling Huawei, HiSilicon CR Rel-16 38.323 16.7.0 0108 - A NR\_newRAT-Core

Moved from 5.1.2

[R2-2212119](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212119.zip) Alignment of procedural text for PDCP control PDU handling Huawei, HiSilicon CR Rel-15 38.323 15.8.0 0109 - F NR\_newRAT-Core

Moved from 5.1.2

#### 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

In case a correction need to mirrored for both NR RRC and LTE RRC, the corrections should be submitted under one single AI, i.e. the sub-AIs below this.

##### 5.1.3.1.1 Connection control

Including L1 Parameters, L2 Parameters, Connection establishment and release, Connection reconfiguration (also reconfig with sync, Handover), Connection resume and release with RRC\_INACTIVE state, Security procedures, re-establishment, RRC processing delay requirements etc.

Pusch freq hopping

[R2-2212905](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212905.zip) Correction on frequency hopping ZTE Corporation, Sanechips CR Rel-16 38.331 16.10.0 3752 - F NR\_L1enh\_URLLC-Core

* HW think this is correct but think we can also remove text and just refer to RAN1 spec. ZTE think this could also be ok.
* Proposed change is correct
* agreed

[R2-2212906](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212906.zip) Correction on frequency hopping (R17) ZTE Corporation, Sanechips CR Rel-17 38.33 17.2.0 3753 - A NR\_L1enh\_URLLC-Core

* ageed

PDSCH time domain resource allocation for DCI format 1-2

[R2-2212603](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212603.zip) Support of repetition on PDSCH time domain resource allocation for DCI format 1-2 Samsung discussion Rel-16 NR\_eMIMO-Core, NR\_L1enh\_URLLC-Core

*Observation 1: Current RRC specification do not support the single-DCI inter-slot TDM multi-TRP PDSCH repetition for DCI 1-2.*

*Proposal 1: RAN2 discuss how to support the repetition number for PDSCH time domain resource allocation for DCI 1-2.*

*• Option 1: Introduce the new repetitionNumber-v16xy which is only allowed to DCI format 1-2.*

*• Option 2: Update the description of the conditional presence for “Formats1-0and1-1”*

*- Change the name of the conditional presence to “Formats1-0and1-1and1-2”*

*- Remove the condition “In pdsch-TimeDomainAllocationListDCI-1-2, this field is absent.”*

*Proposal 2: RAN2 approve the CRs from Rel-16 to support the repetition number for PDSCH time domain resource allocation for DCI 1-2.*

*Proposal 3: No new UE capability is defined to support the repetition number for PDSCH time domain resource allocation for DCI 1-2.*

DISCUSSION

* Nokia think the observation is correct. Think the P3 is important.
* Current RRC specification do not support the single-DCI inter-slot TDM multi-TRP PDSCH repetition for DCI 1-2.
* A new UE capability is defined to support the repetition number for PDSCH time domain resource allocation for DCI 1-2.

Offline 004 (Samsung), details and CRs

[R2-2213281](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213281.zip) Summary of [AT120][004][eMIMO] Support of repetition on PDSCH time domain resource allocation for DCI format 1-2 (Samsung) Samsung discussion Rel-16 NR\_eMIMO-Core, NR\_L1enh\_URLLC-Core

* P1: on the agreement for supporting the single-DCI inter-slot TDM multi-TRP PDSCH repetition for DCI 1-2. RAN2 fix it from Rel-17.
* P2: Introduce the new Rel-17 UE capability supportRepNumPDSCH-TDRA-ForDCI-Format1-2-r17 which has ENUMERATED {n2, n3, n4, n5, n6, n7, n8, n16}.
* P3: Introduce the new Rel-17 repetitionNumber field which is only allowed to DCI format 1-2.

[R2-2213282](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213282.zip) Correction to support repetition on PDSCH time domain resource allocation for DCI format 1-2 Samsung CR Rel-17 38.331 17.2.0 3261 - F NR\_eMIMO-Core, NR\_L1enh\_URLLC-Core

- QC are ok with the CR

- Nokia think the condition need to be updated with absence behaviour. Should add , it is absent need R otherwise, in the FD.

* Revised add the text as above in the FD, revision in R2-2213291 is agreed unseen.

[R2-2213283](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213283.zip) Correction to support repetition on PDSCH time domain resource allocation for DCI format 1-2 Samsung CR Rel-17 38.306 17.2.0 0852 - F NR\_eMIMO-Core, NR\_L1enh\_URLLC-Core

- Disc whether to merge with mega CRs: we don’t merge.

* Agreed

[R2-2212604](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212604.zip) Correction to support repetition on PDSCH time domain resource allocation for DCI format 1-2 (Option 1) Samsung CR Rel-16 38.331 16.10.0 3718 - F NR\_eMIMO-Core, NR\_L1enh\_URLLC-Core

[R2-2212605](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212605.zip) Correction to support repetition on PDSCH time domain resource allocation for DCI format 1-2 (Option 1) Samsung CR Rel-17 38.331 17.2.0 3719 - F NR\_eMIMO-Core, NR\_L1enh\_URLLC-Core

[R2-2212606](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212606.zip) Correction to support repetition on PDSCH time domain resource allocation for DCI format 1-2 (Option 2) Samsung CR Rel-17 38.331 17.2.0 3720 - F NR\_eMIMO-Core, NR\_L1enh\_URLLC-Core

firstOFDMSymbolInTimeDomain

[R2-2212369](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212369.zip) Correction to firstOFDMSymbolInTimeDomain Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.19.0 3241 1 F NR\_newRAT-Core R2-2207264

* QC wonder if this is needed for rel15. Nokia think this is about inconsistency. MTK are ok

[R2-2212370](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212370.zip) Correction to firstOFDMSymbolInTimeDomain Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.10.0 3242 1 A NR\_newRAT-Core R2-2207265

[R2-2212371](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212371.zip) Correction to firstOFDMSymbolInTimeDomain Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3243 1 A NR\_newRAT-Core R2-2207266

* All 3 CRs agreed

SRS Release

[R2-2211645](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211645.zip) Clarification on SRS Release Samsung discussion NR\_newRAT-Core

DISCUSSION

* MTK think UE impl just follow the current TS, so this go beyond clarification. HW agrees and think it is NBC. QC submitted a similar CR some years ago, but think it was then clarified that the network is responsible to release SRS resource set if needed. Apple agrees
* Samsung think there are market interop issues. Networks are not behaving the same.
* Apple are not sure what can be done wrt network. MTK think the network can handle all cases.
* Proposal is not agreeable
* The network is responsible to release SRS resource set if needed

[R2-2211648](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211648.zip) Clarification on SRS Release Samsung CR Rel-15 38.331 15.19.0 3624 - F NR\_newRAT-Core

[R2-2211650](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211650.zip) Clarification on SRS Release Samsung CR Rel-16 38.331 16.10.0 3625 - A NR\_newRAT-Core

[R2-2211653](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211653.zip) Clarification on SRS Release Samsung CR Rel-17 38.331 17.2.0 3626 - A NR\_newRAT-Core

suspendConfig in RRC Inactive

[R2-2212565](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212565.zip) Handling of suspendConfig and UE Inactive AS Context Intel Corporation discussion Rel-15 NR\_newRAT-Core

*Proposal 1. To confirm whether the suspendConfig is stored or not as part of the UE Inactive AS Context when UE in CONNECTED receives RRCRelease msg (in section 5.3.8.3 of TS 38.331).*

*Proposal 2. If Proposal 1 confirms that suspendConfig is not stored as part of the UE Inactive AS Context, to update section 5.3.8.3 of TS 38.331 to capture that suspendConfig is not stored as part of the UE Inactive AS Context when UE in CONNECTED receives RRCRelease msg.*

*Proposal 3. If Proposal 1 confirms that suspendConfig is stored as part of the UE Inactive AS Context, to update section 5.3.8.3 of TS 38.331 to capture that current suspendConfig is replaced in the stored UE Inactive AS context (except for nextHopChainingCount and sl-UEIdentityRemote-r17 which are already correctly captured) when UE in CONNECTED receives RRCRelease msg in response to RRCResumeRequest msg.*

*Proposal 4. If either Proposal 2 or Proposal 3 is agreed, the corresponding change is implemented for Rel-17 and to discuss whether to also add similar statement in early releases (e.g. starting potentially in Rel-15).*

* SS think this is not stored and this is clear in procedure text. SS think CR are not needed.
* Nokia think we should clarify what is the common understanding. Leaning towards SS view.
* MTK agree with SS, but also think this should be clarified
* Ericsson agrees with SS, but agrees that clarification can be considered.
* HW think it is stored.
* Apple agree w SS that this is not stored.
* VDF wonder what kind of storing this is, in the network or in the UE. Intel clarifies tnat it is in the UE.
* QC think this is not stored.
* Ericsson think that if we assume it is stored, then we may have R3 impact ..
* SS think that if stored then there are issues with the current procedures.

Chair: All companies except one think the suspendConfig is not stored. Can allow time to check.

* Intel think we would clarify this from R17

[R2-2213275](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213275.zip) Exclude the *suspendConfig* in the UE Inactive AS context Intel Corporation CR Rel-17 38.331 17.2.0 3711 1 F NR\_newRAT-Core, NR\_SmallData\_INACTIVE-Core

- HW think we should use the word specified instead of captured.

- Ericsson think 1: we should have this from Rel15 2: SDT WI on the cover sheet to be removed.

* CR is agreeable with the changes as commented, should make the change from Rel-15.

CB 040

[R2-2212566](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212566.zip) Store the suspendConfig in the UE Inactive AS Context Intel Corporation CR Rel-17 38.331 17.2.0 3710 - F NR\_newRAT-Core, NR\_SmallData\_INACTIVE-Core

[R2-2212567](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212567.zip) Exclude the suspendConfig in the UE Inactive AS Context Intel Corporation CR Rel-17 38.331 17.2.0 3711 - F NR\_newRAT-Core, NR\_SmallData\_INACTIVE-Core

[R2-2213299](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213299.zip) Exclude the suspendConfig in the UE Inactive AS Context Intel Corporation CR Rel-15 38.331 15.19.0 3762 - F NR\_newRAT-Core, NR\_SmallData\_INACTIVE-Core

[R2-2213300](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213300.zip) Exclude the suspendConfig in the UE Inactive AS Context Intel Corporation CR Rel-16 38.331 16.10.0 3763 - A NR\_newRAT-Core, NR\_SmallData\_INACTIVE-Core

[R2-2213301](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213301.zip) Exclude the suspendConfig in the UE Inactive AS Context Intel Corporation CR Rel-17 38.331 17.2.0 3711 2 A NR\_newRAT-Core, NR\_SmallData\_INACTIVE-Core

* 3 CRs agreed

Measurement - NoGap

[R2-2212425](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212425.zip) Supporting of inter-frequency no gap measurements in NR-DC Ericsson discussion Rel-16 TEI16

* SS think this is optimization, think SN can configure anyway but not as optimal.
* LGE think that anyway gap can be used. Ericsson agrees but think the point it not use gaps.
* Nokia wonder if this is not just a R3 thing. Anyway it seems they need to do something.
* ZTE think this is a R2 issue as this is about gap coordination, and think the signalling should be R2. Are ok to include this in inter-node message.
* HW think this is anyway just for info to SN, and SN is not mandated to do anything.
* Attempt to find agreeable way forward with R2 solution

Offline 005 (Ericsson), to find a way forward.

[R2-2213270](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213270.zip) Clarification on inter-frequency no gap measurements in NR-DC Ericsson CR Rel-16 38.331 16.8.0 3759 - F TEI16

[R2-2213271](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213271.zip) Clarification on inter-frequency no gap measurements in NR-DC Ericsson CR Rel-17 38.331 17.2.0 3760 - F TEI16

- No impact to UE, should untick the ME box.

- Chair late comment: Shouldn’t the Rel-17 CR be cat A?

* Revised, coversheet update in R2-2213294 R2-2213295, which are agreed unseen

IAB

[R2-2212423](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212423.zip) Clarification of the UE actions when iab-support is not included in SIB1 Ericsson CR Rel-16 38.304 16.8.0 0307 - F NR\_IAB-Core

* LG think we may need this text also in 304, but there are other field with same situation, e.g related to RedCap.
* HW think that the RRC procedure is clear, but think this is not critical. Nothing is broken.
* Ericsson think that for this case there is real inconsistency.
* LGE think some effort is needed.
* Chair: This is somewhat a clean-up / consistency / clarification change, can think about this for next meeting.
* postponed

[R2-2212424](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212424.zip) Clarification of the UE actions when iab-support is not included in SIB1 Ericsson CR Rel-17 38.304 17.2.0 0308 - A NR\_IAB-Core

NS Value

[R2-2211360](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211360.zip) NS-value mapping for UL CA Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

* Nokia think R4 are also discussing this.
* HW prefer to postpone. Are ok to add references to the different tables. Not ok to assume different configuration for Scell and Pcell. Ericsson agrees.
* MTK are also ok to clarify the ref to tables, but think that for the second part there is no issue.
* add references to the tables

Offline 006 for the CR (Nokia)

CB Friday

[R2-2213219](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213219.zip)

[R2-2213220](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213220.zip)

[R2-2213221](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213221.zip)

* Contents of all 3 CRs are agreed, merged with TS rapporteur CRs

UE timers and constants after handover - General

[R2-2211361](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211361.zip) Timer handling during handover Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

DISCUSSION

* QC think we don’t need to clarify anything. Apple agrees and cannot accept any new UE requirements. SS agrees that we should not have requirements for SIB1 read.
* ZTE think that if the network need to send some specific values the network can include this in dedicated HO signalling.
* Vivo also think we cannot set any requirements for the UE.
* Ericsson believes that the UE uses the SRC cell values until they are changed. Apple agrees. SS think that UE shall not use values from one cell in another cell.
* Chair: There might be an ambiguity but there is no support to fix anything. If serious problem then can CB next meeting.
* RAN2 understands that after handover, when UE has no RLF-TimersAndConstants configured, UE follows the *ue-TimersAndConstants* of the target cell SIB1.

UE timers and constants after handover - DAPS

[R2-2211841](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211841.zip) Correction to RLF configuration in case of DAPS HO Fujitsu CR Rel-16 38.331 16.10.0 3647 - F NR\_Mob\_enh-Core

[R2-2211842](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211842.zip) Correction to RLF configuration in case of DAPS HO Fujitsu CR Rel-17 38.331 17.2.0 3648 - A NR\_Mob\_enh-Core

Not treated, as they are likely not agreeable based on above discussion

Pusch repetition

[R2-2211555](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211555.zip) Correction of PUSCH repetition configuration Huawei, HiSilicon CR Rel-16 38.331 16.10.0 3615 - F NR\_IIOT-Core

[R2-2211556](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211556.zip) Correction of PUSCH repetition configuration Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3616 - A NR\_IIOT-Core

* Both not pursued

[R2-2212903](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212903.zip) Correction on PUSCH-Allocation configuration ZTE Corporation, Sanechips CR Rel-16 38.331 16.10.0 3750 - F NR\_IIOT-Core

[R2-2212904](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212904.zip) Correction on PUSCH configuration ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3751 - F NR\_IIOT-Core

DISCUSSION

* Nokia think the intent is ok, but wonder if we need to state that the CR is mandatory to support for support for Repetition TypeB.
* Both CRs above are agreeable, revise the coversheet acc to comment above

[R2-2213256](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213256.zip) Correction on PUSCH-Allocation configuration ZTE Corporation, Sanechips CR Rel-16 38.331 16.10.0 3750 1 F NR\_IIOT-Core

[R2-2213257](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213257.zip) Correction on PUSCH configuration ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3751 1 F NR\_IIOT-Core

- HW think we should clarify consequences if not approved. Should be specific as this is now mandatory.

* Revised

[R2-2213315](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213315.zip) Correction on PUSCH-Allocation configuration ZTE Corporation, Sanechips CR Rel-16 38.331 16.10.0 3750 2 F NR\_IIOT-Core

* agreed

[R2-2213316](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213316.zip) Correction on PUSCH configuration ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3751 2 F NR\_IIOT-Core

* agreed

CB Offline 007 (ZTE)

P-Max

[R2-2212375](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212375.zip) P-Max definition in SIB1 and dedicated signalling Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3240 1 A NR\_newRAT-Core R2-2207260

[R2-2212376](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212376.zip) P-Max definition in SIB1 and dedicated signalling Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.10.0 3239 1 A NR\_newRAT-Core R2-2207259

[R2-2212377](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212377.zip) P-Max definition in SIB1 and dedicated signalling Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.19.0 3238 1 F NR\_newRAT-Core R2-2207258

* HW think this is not BW compatible. Think we can discuss scenarios, e.g. HO, where there would be a short period when the UE would use default values .. Think legacy procedures are quite clear. Apple agrees with Huawei.
* QC think think there is an issue to be fixed but think that it should be from R17.
  + MTK also this is NBC for R15 R16, also think this is not critical and that network can always configure dedicated value, ZTE agrees. Ericsson also agrees and think that changing from R17 would involve a UE cap.
* Nokia think that if we leave this in network then we should at least clarify the UE behaviour in the HO period.
* No change agreeable. Network can handle ambiguity situations by dedicated signalling.

PUCCH SCell

[R2-2212571](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212571.zip) Corrections on PUCCH Scell Huawei, HiSilicon CR Rel-15 38.331 15.19.0 3712 - F NR\_newRAT-Core

* SS don’t agree with this. Think the current text is intentional.
* ZTE think the proposed change contradicts last part of FD.
* MTK think the intention is ok, but the proposed text makes things unclear.
* Ericsson think this doesn’t really change anything
* SS think the change contradicts other procedure text.

CB Offline 008 (HW) can clarify whether there is an issue.

[R2-2213278](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213278.zip) Summary of offline 008 on PUCCH SCell (Huawei) Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

- Ericsson think that if UE considers this as a PUCCH SCell and network not then the network will ignore. Ericsson think PUCCH config is needed for PUCCH SCell.

- MTK think the UE shall not ignore but can use common config

- Nokia think this a general issue and UE should not ignore common config.

- QC think that the configuration is not complete from UE point of view when PUCCH config has not been received. ZTE agrees with QC. ZTE think the dedicated config will always be provided as it is based on UE capability.

- vivo think ignoring is dangerous.

- CATT think that the UE doesn’t ignore and that is not the issue here.

- Ericsson think that wo the PUCCH config the UE doesn’t have resources for SR.

- QC think we need to ensure interoperability.

- Nokia think we should check whether some parts of PUCCH Config would need to be required in order to consider this Scell a PUCCH SCell.

Chair: There is support to capture the following agreement to go for option2: ***When a SCell with initial BWP only, and with no PUCCH-Config configuration but with PUCCH-ConfigCommon, it is not considered a “PUCCH SCell”***. However a network vendor believes that real UE impl can also accept the other option.

Chair: Action Point: UE vendors to check.

* Postponed

[R2-2212572](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212572.zip) Corrections on PUCCH Scell Huawei, HiSilicon CR Rel-16 38.331 16.10.0 3713 - A NR\_newRAT-Core

[R2-2212573](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212573.zip) Corrections on PUCCH Scell Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3714 - A NR\_newRAT-Core

* Both Postponed

Measurement - CGI

[R2-2212062](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212062.zip) Condition for timer T321 and timer T322 Lenovo Information Technology CR Rel-15 38.331 15.19.0 3666 - F NR\_newRAT-Core

* MTK agree with this, suggest to merge with Rap CR. SS agreed
* Change is agreed (for R151617), but merged with Rapporteur CR(s)

[R2-2212063](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212063.zip) Condition for timer T321 and timer T322 Lenovo Information Technology CR Rel-16 38.331 16.10.0 3667 - A NR\_newRAT-Core

[R2-2212064](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212064.zip) Condition for timer T321 and timer T322 Lenovo Information Technology CR Rel-17 38.331 17.2.0 3668 - A NR\_newRAT-Core

* 3 CRs merged

DCCA Early measurements

[R2-2212821](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212821.zip) Correction to T331 handling, Alt.1 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3529 1 F TEI17, LTE\_NR\_DC\_CA\_enh-Core R2-2210238

[R2-2212844](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212844.zip) Correction to T331 handling, Alt.2 Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.10.0 3742 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2212845](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212845.zip) Correction to T331 handling, Alt.2 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3743 - A LTE\_NR\_DC\_CA\_enh-Core

DISCUSSION

* ZTE think the intention is correct, but think there are more case when the UE shall discard, e.g. after timer expiry, so hesitant to agree. Ericsson agrees with ZTE, but think this part can be agreed, prefer option 2.
* Apple think this was intentionally left not specified, could be ok with a Note, but also don’t like the wording should. HW agrees, and think UEs are impl differently, think it is difficult to unify. Think soft wording of Alt1 could be ok.
* LG think indeed there are more cases, e.g. when there is no new config in the RRC release. Think there may be many cases to discuss, are ok to not change.
* Nokia think there are also the case of T331 expiry.
* Chair: the only way seems to be to go for no change or alt1 with rewording.

Offline 010 way forward, can also include the T331 expiry (Nokia)

CB Friday

[R2-2213222](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213222.zip)

- Apple are ok to capture in Chair notes. LG as well, LG would be ok to have a note in the TS as well. LG would like to clarify that UE shall discard when the UE receive new measurement config for Idle mode.

* RAN2 clarifies that to avoid retaining obsolete measurement results related to previous idle mode measurement configurations, the UE may discard the previously acquired idle measurement results upon leaving RRC\_CONNECTED if *measIdleConfig* is not provided in *RRCRelease* (no need to cover this in the TS).

CN dependency

[R2-2212858](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212858.zip) Calcification on (NG)EN-DC configurations Google Inc. CR Rel-15 38.331 15.19.0 3745 - F LTE\_NR\_DC\_CA\_enh-Core

* Ericsson are ok but think we can merge with Rap CR.

[R2-2212864](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212864.zip) Calcification on (NG)EN-DC configurations Google Inc. CR Rel-16 38.331 16.10.0 3746 - A LTE\_NR\_DC\_CA\_enh-Core

* These changes are agreed for R151617, merged with Rap CR.

Withdrawn

R2-2211822 Correction to RLF configuration in case of DAPS HO Fujitsu CR Rel-16 38.331 16.10.0 3644 - F NR\_Mob\_enh-Core Withdrawn

R2-2211823 Correction to RLF configuration in case of DAPS HO Fujitsu CR Rel-17 38.331 17.2.0 3645 - A NR\_Mob\_enh-Core Withdrawn

R2-2212819 Correction to firstOFDMSymbolInTimeDomain Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3241 2 F NR\_newRAT-Core R2-2207264 Withdrawn

R2-2212346 Correction to T331 handling Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3689 - F TEI17, LTE\_NR\_DC\_CA\_enh-Core Withdrawn

R2-2212366 Correction to firstOFDMSymbolInTimeDomain Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.19.0 3692 - F NR\_newRAT-Core Withdrawn

R2-2212367 Correction to firstOFDMSymbolInTimeDomain Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.10.0 3693 - A NR\_newRAT-Core Withdrawn

R2-2212368 Correction to firstOFDMSymbolInTimeDomain Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3694 - A NR\_newRAT-Core Withdrawn

##### 5.1.3.1.2 Other

MIB

[R2-2211763](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211763.zip) 38.331 CR on the periodicity of the MIB vivo CR Rel-15 38.331 15.19.0 3639 - F NR\_newRAT-Core

[R2-2211764](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211764.zip) 38.331 CR on the periodicity of the MIB vivo CR Rel-16 38.331 16.10.0 3640 - A NR\_newRAT-Core

[R2-2211765](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211765.zip) 38.331 CR on the periodicity of the MIB vivo CR Rel-17 38.331 17.2.0 3641 - A NR\_newRAT-Core

* MTK think this change is not ok. Think that the low periodicity is for SCell and no need for other case. Vivo clarifies that the intention is for SCell. Apple agrees with MTK, not comfortable with changing this at this time.
* HW support the intention.
* ZTE think that in Rel-16 the long period for Pcell was agreed.
* QC think indeed we may need to clarify some things.

CB Offline 011 to determine an acceptable change to remove inconsistencies (vivo).

[R2-2213000](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213000.zip) Summary of [Offline-011][TEI] The periodicity of MIB vivo discussion

Discussion (mainly on the CRs above)

- vivo think that the CRs apply also to DC scenarios, with update to cover sheet needed.

- Nokia think it is suitable to have just Rel-17 CR with magic sentence.

- vivo think we have discussed this many times and it is better to clarify from rel-15.

- Ericsson would prefer a Note.

* noted
* Change CR text to a note, confirm that we have CRs from Rel-15

CB Offline 011, CR revision

[R2-2213304](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213304.zip) 38.331 CR on the periodicity of the MIB vivo CR Rel-15 38.331 15.19.0 3639 1 F NR\_newRAT-Core

[R2-2213305](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213305.zip) 38.331 CR on the periodicity of the MIB vvo CR Rel-16 38.331 16.10.0 3640 1 A NR\_newRAT-Core

[R2-2213306](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213306.zip) 38.331 CR on the periodicity of the MIB vivo CR Rel-17 38.331 17.2.0 3641 1 A NR\_newRAT-Core

* 3 CRs agreed

On-demand SI

[R2-2211538](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211538.zip) Corrections to on-demand SI request Lenovo CR Rel-16 38.331 16.10.0 3610 - F NR\_pos-Core, TEI16

[R2-2211539](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211539.zip) Corrections to on-demand SI request Lenovo CR Rel-17 38.331 17.2.0 3611 - A NR\_pos-Core, TEI16

* HW support to clarify but think the details should be checked offline
* Chair: it seems agreeable to have these changes but need further checking
* Offline 012 CR review in detail Lenovo

[R2-2213267](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213267.zip) Corrections to on-demand SI request Lenovo CR Rel-16 38.331 16.10.0 3610 1 F NR\_pos-Core, TEI16

[R2-2213268](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213268.zip) Corrections to on-demand SI request Lenovo CR Rel-17 38.331 17.2.0 3611 1 A NR\_pos-Core, TEI16

- Ericsson wonder if the 1st change is needed, the condition seems clear. Can have the second change. Lenovo think it is important as we have critical extension of this message.

- After further offline check agree to the changes but merge with rapporteur CR.

* Contents of 2 CRs above is agreed, and merged with TS rapporteur CR

[R2-2211660](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211660.zip) Discussion on SI-request Period Issue vivo Mobile Com (Chongqing) discussion Rel-15 NR\_newRAT-Core R2-2208265

* HW agrees with the intention, details offline
* Nokia think this restriction can be a network impl issue, and think we can have a note. Ericsson agrees with Nokia, the network can ensure nothing goes wrong, and then if the issue is only that UE need to wait a bit at the boundaries, there is no issue. Apple, CATT and ZTE agrees with Nokia and Ericsson.
* Vivo think that the second issue is an issue for the UE, think it should be ensured that there are RACH resource for this feature.
* Chair: Not enough support to fix anything (e.g. can CB next meeting if the situation has changed – proponent need to do some lobbying etc).
* Noted

[R2-2212531](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212531.zip) Clarification on the description of the dedicatedSystemInformationDelivery IE Qualcomm Incorporated CR Rel-16 38.331 16.10.0 3706 - F NR\_newRAT-Core

[R2-2212532](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212532.zip) Clarification on the description of the dedicatedSystemInformationDelivery IE Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3707 - A NR\_newRAT-Core

* Nokia are ok with the CR but suggest rephrasing.
* Ericsson think this is not critical, can include in the rapporteur CR, not much room for misunderstanding. MTK think no change is needed, but could be ok to include in Rapp CR.
* Contents is agreed, merged with Rapporteur CR (both CRs).

Misc

[R2-2212149](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212149.zip) Miscellaneous non-controversial corrections Set XVI Ericsson CR Rel-15 38.331 15.19.0 3676 - F NR\_newRAT-Core

[R2-2212150](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212150.zip) Miscellaneous non-controversial corrections Set XVI Ericsson CR Rel-16 38.331 16.10.0 3677 - F NR\_newRAT-Core

[R2-2212151](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212151.zip) Miscellaneous non-controversial corrections Set XVI Ericsson CR Rel-17 38.331 17.2.0 3678 - F NR\_newRAT-Core

Moved from 6.0.1

All 3 Treated in Post email discussion

* [Post120][050][NR151617] NR RRC Rapporteur CRs (Ericsson)

Scope: NR RRC Rapporteur CRs for Rel-15 Rel-16 Rel-17. Based on R2-2212149, R2-2212150, R2-2212151, merged CRs and collected comments, converge to agreement.

Intended outcome: Agreed 38.331 CRs

Deadline: Short

#### 5.1.3.2 LTE changes

LTE-specific changes for these WIs. Changes that are applied to both LTE and NR shall be treated together under respective Agenda item other than this one.

Meas

[R2-2212270](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212270.zip) On Triggering, Sorting and Reporting Quantities for NR Measurements Configured in LTE Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

* QC think different UEs have different impl, would prefer clarification from R18. SS have also identified that NR is different to LTE, but think the CR is not clear, would like to clarify further.
* HW think we have a section on sorting of beam measurements, which is clear. ZTE agrees and think it is 5.5.5.5.5.5.5.5.3. SS think that section is after the current text so think some re-wording Is needed.
* MTK are ok with the change but are also ok with no change.
* Nokia think it would be good to confirm, e.g. “sorting quantity acc to subclause 5.5….”. MTK think this is clear.
* Intention is confirmed but No change agreeable

p-maxNR

[R2-2212591](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212591.zip) Clarification on p-maxNR Huawei, HiSilicon CR Rel-15 36.331 15.19.0 4894 - F NR\_newRAT-Core

[R2-2212592](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212592.zip) Clarification on p-maxNR Huawei, HiSilicon CR Rel-16 36.331 16.10.0 4895 - A NR\_newRAT-Core

[R2-2212593](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212593.zip) Clarification on p-maxNR Huawei, HiSilicon CR Rel-17 36.331 17.2.0 4896 - A NR\_newRAT-Core

DISCUSSION

* MTK agrees, Nokia: intent agreed.
* All 3 CRs are agreed

#### 5.1.3.3 UE capabilities

[R2-2211405](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211405.zip) Miscellaneous updates for TR 38.822 Intel Corporation CR Rel-16 38.822 16.3.0 0011 - F NR\_L1enh\_URLLC-Core, 5G\_V2X\_NRSL-Core, NR\_eMIMO-Core, NR\_RF\_FR1-Core

* Intel think nothing need to be explained online. This is just based on R1 R4 featurelists ? LSes from R4
* Lenovo: some of the proposed change, 2-24 old feature, can add Segmentation capability, HARQ ack mux on PUSCH

Offline 013 Intel, take comments into account. Review the CR.

[R2-2212990](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212990.zip) Miscellaneous updates for TR 38.822 Intel Corporation CR Rel-16 38.822 16.3.0 0011 1 F NR\_L1enh\_URLLC-Core, 5G\_V2X\_NRSL-Core, NR\_eMIMO-Core,

- Intel has inc several updates from online and offline comments.

- Nokia wonder why we update this TR.

- Intel think we have agreement to update from R16 and forward.

- Ericsson point out that we agreed that rapporteur makes CRs (only).

- QC think this is very useful, support

- Ericsson think the rapporteur can decide

* Agreed

[R2-2212586](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212586.zip) Clarification on 400MHz channel bandwidth Huawei, HiSilicon CR Rel-15 38.306 15.18.0 0843 - F NR\_newRAT-Core

[R2-2212587](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212587.zip) Clarification on 400MHz channel bandwidth Huawei, HiSilicon CR Rel-16 38.306 16.10.0 0844 - A NR\_newRAT-Core

[R2-2212588](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212588.zip) Clarification on 400MHz channel bandwidth Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0845 - A NR\_newRAT-Core

* QC support the intention, wonder whether we can introduce this as a new codepoint in CHBW, assuming there are no BC issues.
* SS would be ok to update the note rather than introducing a new code point.

Offline 014, find agreeable way fw, take into account the QC proposal above (HW).

[R2-2213259](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213259.zip) Clarification on 400MHz channel bandwidth Huawei, HiSilicon CR Rel-15 38.306 15.18.0 0843 - F NR\_newRAT-Core

R2-2213260 Clarification on 400MHz channel bandwidth Huawei, HiSilicon CR Rel-16 38.306 16.10.0 0844 - A NR\_newRAT-Core

R2-2213261 Clarification on 400MHz channel bandwidth Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0845 - A NR\_newRAT-Core

* 3 CRs agreed

[R2-2212589](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212589.zip) Clarification on capabilities reported in different granularity with prerequisite Huawei, HiSilicon CR Rel-16 38.306 16.10.0 0846 - F NR\_eMIMO-Core

R2-2212981 Clarification on capabilities reported in different granularity with prerequisite Huawei, HiSilicon CR Rel-16 38.306 16.10.0 0846 1 F NR\_eMIMO-Core

[R2-2212590](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212590.zip) Clarification on capabilities reported in different granularity with prerequisite Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0847 - A NR\_eMIMO-Core

R2-2212982 Clarification on capabilities reported in different granularity with prerequisite Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0847 1 A NR\_eMIMO-Core

- MTK wonder if this is a general rule or just for eMIMO. Ericsson and Apple wonder the same thing. HW think both ways would be ok

- Ericsson think we can capture in FD. Huawei think there a many capabilities. Intel think we could also have an annex. Nokia think that we then need to list all caps explicitly, best with a general rule.

* Will capture this for eMIMO specifically
* CRs postponed

Offline 015, find an agreeable way to capture this in agreable CRs (HW)

[R2-2212984](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212984.zip) Report of [AT120][015][NR16] Granularity of eMIMO capabilities (Huawei) Huawei, HiSIlicon discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

- Apple agrees with the proposal but wonder about the general principle? We can identify what we have so far, but can we really restrict RAN1. Nokia has some sympathy for this.

- Ericsson think we need to check whether we gain anything by a general principle.

* To further check whether there is any exception for existing eMIMO features (including Rel-17 MIMO features) which cannot apply this general principle and conclude at next RAN2 meeting whether potentially a principle (for eMIMO) can be adopted.
* Discussion postponed.

#### 5.1.3.4 Idle and inactive mode procedures

This agenda item addresses the idle and inactive behaviour specified in 38.304 or 36.304. Other aspects related to inactive (e.g. state transitions, out of coverage, etc) are covered under RRC agenda items

## 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.).

### 5.2.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc.

[R2-2211144](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211144.zip) Reply LS on Pemax,c of S-SSB transmission (R1-2210549; contact: vivo) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN4 Cc:RAN2

### 5.2.2 Control plane corrections

This agenda item may utilize a summary document on RRC (Huawei).

[R2-2211218](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211218.zip) Discussion on resource pool index OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2211563](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211563.zip) Miscellaneous corrections on 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.10.0 3618 - F 5G\_V2X\_NRSL-Core

[R2-2211564](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211564.zip) Miscellaneous corrections on 38.331 Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3619 - A 5G\_V2X\_NRSL-Core

[R2-2211691](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211691.zip) Correction on exceptional pool usage for OOC UE Apple, OPPO CR Rel-16 38.331 16.10.0 3631 - F 5G\_V2X\_NRSL-Core

[R2-2211692](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211692.zip) Correction on exceptional pool usage for OOC UE Apple, OPPO CR Rel-17 38.331 17.2.0 3632 - A 5G\_V2X\_NRSL-Core

[R2-2212131](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212131.zip) Correction on RLC mode reporting CATT CR Rel-16 38.331 16.10.0 3673 - F 5G\_V2X\_NRSL-Core

[R2-2212132](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212132.zip) Correction on RLC more reporting CATT CR Rel-17 38.331 17.2.0 3674 - A 5G\_V2X\_NRSL-Core

[R2-2212723](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212723.zip) Correction on RRC for NR Sidelink CATT CR Rel-16 38.331 16.10.0 3727 - F 5G\_V2X\_NRSL-Core

[R2-2212724](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212724.zip) Correction on RRC for NR Sidelink CATT CR Rel-17 38.331 17.2.0 3728 - A 5G\_V2X\_NRSL-Core

### 5.2.3 User plane corrections

This agenda item may utilize a summary document on MAC (LG).

[R2-2211240](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211240.zip) Correction of MinSubChannelNumPSSCH and MaxSubchannelNumPSSCH OPPO CR Rel-16 38.321 16.10.0 1449 - F 5G\_V2X\_NRSL-Core

[R2-2211269](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211269.zip) Correction of MinSubChannelNumPSSCH and MaxSubchannelNumPSSCH OPPO CR Rel-17 38.321 17.2.0 1453 - A 5G\_V2X\_NRSL-Core

[R2-2211395](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211395.zip) Correction on exceptional resource pool usage OPPO CR Rel-16 38.321 16.10.0 1457 - F 5G\_V2X\_NRSL-Core

[R2-2211396](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211396.zip) Correction on exceptional resource pool usage OPPO CR Rel-17 38.321 17.2.0 1458 - A 5G\_V2X\_NRSL-Core

[R2-2211561](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211561.zip) Clarification on UE maximum transmission number for mode 2 Huawei, HiSilicon CR Rel-16 38.321 16.10.0 1464 - F 5G\_V2X\_NRSL-Core

[R2-2211562](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211562.zip) Clarification on UE maximum transmission number for mode 2 Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1465 - A 5G\_V2X\_NRSL-Core

[R2-2211647](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211647.zip) Summary on user plane corrections LG Electronics France discussion 5G\_V2X\_NRSL-Core Late

[R2-2211942](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211942.zip) Discussion on UL skipping for NR sidelink Xiaomi discussion

[R2-2211943](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211943.zip) Correction on UL skipping for NR sidelink Xiaomi CR Rel-16 38.321 16.10.0 1476 - F 5G\_V2X\_NRSL-Core

[R2-2211944](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211944.zip) Correction on UL skipping for NR sidelink Xiaomi CR Rel-17 38.321 17.2.0 1477 - A 5G\_V2X\_NRSL-Core

[R2-2211945](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211945.zip) Correction on the clear of dynamic sidelink grant for NR sidelink Xiaomi CR Rel-16 38.321 16.10.0 1478 - F 5G\_V2X\_NRSL-Core

[R2-2211946](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211946.zip) Correction on the clear of dynamic sidelink grant for NR sidelink Xiaomi CR Rel-17 38.321 17.2.0 1479 - A 5G\_V2X\_NRSL-Core

R2-2212133 Correction on MAC for NR Sidelink CATT CR Rel-16 38.321 16.10.0 1482 - F 5G\_V2X\_NRSL-Core Withdrawn

R2-2212134 Correction on MAC for NR Sidelink CATT CR Rel-17 38.321 17.2.0 1483 - A 5G\_V2X\_NRSL-Core Withdrawn

## 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, 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.

[R2-2211150](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211150.zip) LS on DL PRS search window (R1-2210618; contact: Qualcomm) RAN1 LS in Rel-16 NR\_pos-Core To:RAN2

[R2-2212516](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212516.zip) Update Stage 2 SSR Phase Bias description to include yaw Swift Navigation, Mitsubishi Electric Corporation, Ericsson CR Rel-16 36.305 16.4.0 0111 - F NR\_pos-Core

[R2-2212518](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212518.zip) Update Stage 2 SSR Phase Bias description to include yaw Swift Navigation, Mitsubishi Electric Corporation, Ericsson CR Rel-17 36.305 17.2.0 0112 - A NR\_pos-Core

[R2-2212535](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212535.zip) Update Stage 2 SSR Phase Bias description to include yaw Swift Navigation, Mitsubishi Electric Corporation, Ericsson CR Rel-16 38.305 16.8.0 0113 - F NR\_pos-Core

[R2-2212536](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212536.zip) Update Stage 2 SSR Phase Bias description to include yaw Swift Navigation, Mitsubishi Electric Corporation, Ericsson CR Rel-17 38.305 17.2.0 0114 - A NR\_pos-Core

[R2-2212544](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212544.zip) Discussion and TP on Yaw Angle and Antenna Phase Center corrections for SSR assistance data Swift Navigation, Mitsubishi Electric Corporation, Ericsson discussion Rel-16 NR\_pos-Core

### 5.3.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

[R2-2211258](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211258.zip) Correction to on-demand SI request for posSIB Huawei, HiSilicon CR Rel-16 38.331 16.10.0 3573 - F NR\_pos-Core

### 5.3.3 LPP corrections

[R2-2211420](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211420.zip) Corrections of LPP capabilities on DL-RPS CATT CR Rel-16 37.355 16.8.0 0388 - F NR\_pos-Core

[R2-2211421](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211421.zip) Corrections of LPP capabilities on DL-RPS CATT CR Rel-17 37.355 17.2.0 0389 - A NR\_pos-Core

[R2-2212229](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212229.zip) Correction to DL-PRS Search Window calculation Qualcomm Incorporated CR Rel-16 37.355 16.8.0 0391 - F NR\_pos-Core

[R2-2212231](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212231.zip) Correction to DL-PRS Search Window calculation Qualcomm Incorporated CR Rel-17 37.355 17.2.0 0392 - A NR\_pos-Core

[R2-2212347](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212347.zip) Correction of NR DL-PRS BeamInfo attribute associated-DL-PRS-ID field description Ericsson CR Rel-16 37.355 16.8.0 0393 - F NR\_pos-Core

[R2-2212348](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212348.zip) Correction of NR DL-PRS BeamInfo attribute associated-DL-PRS-ID field description Ericsson CR Rel-17 37.355 17.2.0 0394 - A NR\_pos-Core

[R2-2212349](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212349.zip) Adding missing and correcting GNSS Types in GNSS-SSR-OrbitCorrections Ericsson, u-blox, Swift Navigation CR Rel-16 37.355 16.8.0 0395 - F NR\_pos-Core

[R2-2212350](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212350.zip) Adding missing and correcting GNSS Types in GNSS-SSR-OrbitCorrections Ericsson, u-blox, Swift Navigation CR Rel-17 37.355 17.2.0 0396 - A NR\_pos-Core

[R2-2212351](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212351.zip) Clarifying the meaning of GNSS IOD SSR to avoid different interpretations Ericsson, u-blox, Swift Navigation CR Rel-16 37.355 16.8.0 0397 - F NR\_pos-Core

[R2-2212352](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212352.zip) Clarifying the meaning of GNSS IOD SSR to avoid different interpretations Ericsson, u-blox, Swift Navigation CR Rel-17 37.355 17.2.0 0398 - A NR\_pos-Core

[R2-2212353](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212353.zip) Correcting field description and definition of GNSS-SSR-URA Ericsson, u-blox, Swift Navigation CR Rel-16 37.355 16.8.0 0399 - F NR\_pos-Core

[R2-2212354](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212354.zip) Correcting field description and definition of GNSS-SSR-URA Ericsson, u-blox, Swift Navigation CR Rel-17 37.355 17.2.0 0400 - A NR\_pos-Core

[R2-2212507](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212507.zip) Addition of missing yaw angle and rate in SSR Phase Bias message (TS 37.355) Swift Navigation, Mitsubishi Electric Corporation, Ericsson CR Rel-16 37.355 16.8.0 0401 - F NR\_pos-Core

[R2-2212511](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212511.zip) Addition of missing yaw angle and rate in SSR Phase Bias message (TS 37.355) Swift Navigation, Mitsubishi Electric Corporation, Ericsson CR Rel-17 37.355 17.2.0 0402 - 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).

[R2-2212212](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212212.zip) Discussion on UE behaviours of delay measurements upon MO updates Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2212213](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212213.zip) CR on UE behaviours of delay measurements upon MO updates (R16) Huawei, HiSilicon CR Rel-16 38.331 16.10.0 3683 - F NR\_SON\_MDT-Core

[R2-2212214](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212214.zip) CR on UE behaviours of delay measurements upon MO updates (R17) Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3684 - A NR\_SON\_MDT-Core

### 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

[R2-2211416](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211416.zip) Correction on inclusion of reconnectCellId (36.331) Samsung Electronics Co., Ltd CR Rel-16 36.331 16.10.0 4886 - F NR\_SON\_MDT-Core

[R2-2211417](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211417.zip) Correction on inclusion of reconnectCellId (36.331) Samsung Electronics Co., Ltd CR Rel-17 36.331 17.2.0 4887 - A NR\_SON\_MDT-Core

[R2-2211418](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211418.zip) Correction on inclusion of reconnectCellId (38.331) Samsung Electronics Co., Ltd CR Rel-16 38.331 16.10.0 3595 - F NR\_SON\_MDT-Core

[R2-2211419](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211419.zip) Correction on inclusion of reconnectCellId (38.331) Samsung Electronics Co., Ltd CR Rel-17 38.331 17.2.0 3596 - A NR\_SON\_MDT-Core

[R2-2211540](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211540.zip) Corrections to SON/MDT capabilities Lenovo CR Rel-16 38.306 16.10.0 0675 3 F NR\_SON\_MDT-Core R2-2207527

[R2-2211541](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211541.zip) Corrections to SON/MDT capabilities Lenovo CR Rel-17 38.306 17.2.0 0699 2 A NR\_SON\_MDT-Core R2-2207528

R2-2212085 On DAPS handover failure handling Ericsson discussion Rel-16 38.331 NR\_SON\_MDT-Core Withdrawn

[R2-2212086](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212086.zip) On including SSB and CSI-RS measurements in RLF report Ericsson discussion Rel-16 38.331 NR\_SON\_MDT-Core

[R2-2212087](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212087.zip) On including SSB and CSI-RS measurements in RLF report Ericsson discussion Rel-17 38.331 NR\_SON\_MDT-Core

[R2-2212088](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212088.zip) On RLF cause determination when RLF occurs due to T312 expiry Ericsson discussion Rel-16 38.331 NR\_SON\_MDT-Core

[R2-2212089](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212089.zip) On RLF cause determination when RLF occurs due to T312 expiry Ericsson discussion Rel-17 38.331 NR\_SON\_MDT-Core

# 6 NR Rel-17

## 6.0 General

This AI covers corrections to all NR Rel-17 Work Items, but shall only be used for aspects that does not fit under other more specific AIs, e.g. multi-WI aspects.

Tdoc Limitation: 4

### 6.0.1 RRC

Including general RRC or multi-WI aspects.

[R2-2212426](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212426.zip) Coexistance of PEI in case of SL relay Ericsson CR Rel-17 38.300 17.2.0 0588 - F NR\_UE\_pow\_sav\_enh-Core, NR\_SL\_relay-Core

* HW think this change is not needed. Remote UE may not need to monitor for paging. Ericsson think that remote UE may be in coverage. HW assumes that then PEI would be applicable.
* HW think that relay UE doesn’t ned to monitor PEI for the remote UE, the remote UE can monitor PEI by itself if in coverage. Vivo agrees.
* Chair think companies may ned to think about this (high confusion)
* Postponed

[R2-2212427](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212427.zip) Clarification on configuration of SDT with SL relay Ericsson CR Rel-17 38.331 17.2.0 3699 - F NR\_SmallData\_INACTIVE-Core, NR\_SL\_relay-Core

Withdrawn

R2-2211913 Corrections for SDT initiation FGI CR Rel-17 38.331 17.2.0 3660 - F NR\_SmallData\_INACTIVE-Core Withdrawn

#### 6.0.1.0 In-principle Agreed CRs

[R2-2211257](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211257.zip) Correction to explicit Indication of SI Scheduling window position [SI-SCHEDULING] Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3486 2 F TEI17, NR\_pos\_enh-Core R2-2210997

- Lenovo: Current CR seems to assume scheduling info list 2 is always there, and there are a number of other wanted improvements.

Offline 021 One more round of review (HW)

- several comments, with a number of clarifications.

[R2-2213303](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213303.zip) Correction to explicit Indication of SI Scheduling window position [SI-SCHEDULING] Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3486 3 F TEI17, NR\_pos\_enh-Core

* agreed

#### 6.0.1.1 Other

[R2-2211542](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211542.zip) Comments to the in-principle agreed CR on Correction to explicit Indication of SI Scheduling window position [SI-SCHEDULING] Lenovo discussion Rel-17 TEI17, NR\_pos\_enh-Core

* HW wonder about pos SIB / pos SI / pos SI request, don’t they always need to be mapped together? Lenovo think there are no arguments why the UE would need to discriminate in Receiving SIB.
* Lenovo further think the IPA CR may cause too high load for SI request.
* HW think that Lenovo is proposing that signalling for Pos SIBs would use the non-pos RRC messages.
* Ericsson think Lenovos proposal is indeed a simplification.
* MTK think both ways can work. Don’t see a strong need to change.
* ZTE also think L proposal is feasible, but also think that mixing PosSI and non-PosSI is an issue, that pos takes capacity.
* Vivo agrees wih HW MTK ZTE.
* Chair: not sufficient support, and some concerns.
* Not agreeable, noted

[R2-2211729](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211729.zip), [R2-2212127](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212127.zip), [R2-2212735](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212735.zip), [R2-2211912](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211912.zip), R2-221194 are moved to AI 6.10 NR NTN

### 6.0.2 UE capabilities

Feature lists from other groups and UE cap Mega CRs will be treated under this AI. Specific issues may be reallocated to / from WI-specific AIs.

#### 6.0.2.0 In-principle Agreed CRs

[R2-2212962](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212962.zip) Clarification on the MBS feature 33-1-2 and 33-3-2 Xiaomi CR Rel-17 38.306 17.2.0 0823 1 F NR\_MBS-Core

* Endorsed, merged with mega CR.

#### 6.0.2.1 Other

Mega CRs

[R2-2211616](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211616.zip) Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306) Intel Corporation CR Rel-17 38.306 17.2.0 0831 - B NR\_MBS-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_pos\_enh-Core, NR\_cov\_enh-Core, NR\_RF\_FR1\_enh

Moved from AI 6.0.1.1

[R2-2211617](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211617.zip) Release-17 UE capabilities based on R1 and R4 feature lists (TS38.331) Intel Corporation CR Rel-17 38.331 17.2.0 3621 - B NR\_MBS-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_pos\_enh-Core, NR\_cov\_enh-Core, NR\_RF\_FR1\_enh

Moved from AI 6.0.1.1

* Intel explains that these are implementing the last R1 R4 feature lists.

- Offline 016 CR review, and merge (Intel)

R2-2212991 Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306) Intel Corporation CR Rel-17 38.306 17.2.0 0831 1 B NR\_MBS-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_pos\_enh-Core, NR\_cov\_enh-Core, NR\_RF\_FR1\_enh

R2-2212992 Release-17 UE capabilities based on R1 and R4 feature lists (TS38.331) Intel Corporation CR Rel-17 38.331 17.2.0 3621 1 B NR\_MBS-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_pos\_enh-Core, NR\_cov\_enh-Core, NR\_RF\_FR1\_enh

- Report: All has been merged and was reviewed, need post email discussion to merge endorsed CRs, and incorporate feature list updates from RAN1 and RAN4.

- Chair: no online comments, consider these versions the baseline for post meeting work and final CR approval

Short Post email discussion (Intel)

* [Post120][051][NR17] UE Capability Mega CRs (Intel)

Scope: Based on R2-2212991 and R2-2212992, Include merged CRs, incorporate feature list updates from RAN1 and RAN4 as far as possible (also if the input is ready only after meeting close). Review etc for agreement.

Intended outcome: Agreed 38.331 38.306 CRs

Deadline: Short

Intraband EN-DC

[R2-2212583](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212583.zip) Discussion on intra-band EN-DC combination Huawei, HiSilicon discussion Rel-17 TEI17

Observation 1: The cases agreed to be valid by RAN4 cannot be supported by current RAN2 signalling.

Observation 2: The valid cases don’t break the fallback rule in RAN2 since DL and UL are separately configured.

Proposal 1: RAN2 introduces new capabilities to indicate the contiguous capability for intra-band EN-DC DL and UL separately.

Proposal 2: The new capabilities are only included when there is a difference between DL and UL, and the upgraded network shall ignore the legacy field if the new capability fields are included.

* MTK agrees with Huawei. ZTE agrees that current signalling is incomplete but think we can wait for RAN4.
* Ericsson think that RAN4 are still discussing.
* HW think that at least some cases has been confirmed, and we can endorse CRs.
* QC support HW approach. QC wonder about the NOT supported option, as there is currently a default to support contiguous. HW think that for legacy UE the network can use legacy signalling, dep on BC.
* ZTE think there are also other open issues.
* Apple would be ok to start exercise to do tech endorsed CR.
* Vivo think that more R4 input could help R2 work.
* MTK think that this relates to release indp parts of R4 TS

Offline 017, work on acceptable way forward (for potentially tech endorsed CRs).

CB friday

[R2-2213277](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213277.zip) Summary of offline 017 on intra-band ENDC combination Huawei discussion Rel-17 TEI17

DISCUSSION

- Nokia think we don’t need to discuss this at all.

* Postponed, can consider observations 1 and 2 for future work.

[R2-2213262](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213262.zip) Introduction of intra-band EN-DC contigous capability for DL and UL Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3758 - F TEI17

[R2-2213263](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213263.zip) Introduction of intra-band EN-DC contigous capability for DL and UL Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0851 - F TEI17

* Both postponed

[R2-2212747](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212747.zip) Further Consideration on the Intra-band ENDC Capability ZTE Corporation, Sanechips discussion Rel-17 TEI17

DISCUSSION

* MTK agrees with O1 O2, Option 2
* Apple think it has always been Option 2, but what is Option 1? Is that one of the new cases?
* ZTE think that R4 interpretation is Option 1.
* QC think indeed R2 understanding is based on certain assumptions, can be communicated to R4.

O3

* Apple think this is correct.
* MTK understanding that there is descriptions in R4 TS how the parts are arranged, think this is clear if considering both signalling and R4 part.
* R2 interpretation: *Both* means both contiguous BC and non-contiguous BC with the same band Entries are supported.
* Send LS to R4

[R2-2213290](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213290.zip) (Draft) LS on the Intra-band ENDC capability ZTE Corporation LS out Rel-17 TEI17 To:RAN4

- ZTE reports that there are requests to add to the LS.

- HW think that R4 have intention to modify the meaning of both, HW think that if we have different Cap for UL and DL the situation may get worse.

- ZTE think that UL and DL situation is not dep on the value point both, it is a separate issue.

- Apple think that it would help to indicate this to RAN4.

- Apple: add “Issue 3: .. context from issues 1 and 2 .. ask R4 to consider

- OPPO think R4 is discussing this issue, can wait for their conclusion.

- Nokia think from R4 perspective we should be as specific as possible.

- Chair: maybe clarify the RAN2 observation more clearly, e.g. Issue 1: that BOTH is used in R2 and R4 TS, and explain what understanding we have applied in signalling, and ask if inconsistent.

- HW: think we can make the question more precise.

Continue: add issue 3, craft the action carefully to not derail current R4 discussion, for issues 1 2, make clarifications that makes the actions more precise.

Offline 018 LS out to R4, discuss further O3 and include it or variant of it in the LS if found needed (ZTE), CB Friday

[R2-2212748](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212748.zip) (Draft) LS on the Intra-band ENDC capability ZTE Corporation, Sanechips LS out Rel-17 TEI17 To:RAN4

- Apple think R4 has already discussed this and they are preparing an LS to R2. HW agrees and think that RAN2 need to digest the RAN4 proposals. QC support HW concern.

- ZTE think that we should ask for issue 2 at least. R4 LS is on Issue 1.

- MTK think that also with issue 2 we need more time. Think that the examples are just examples and that we have a rule.

- QC think that R4 solution also addressed case 3 of issue 2. Nokia support QC and MTK, we should wait for R4.

- Apple think R2 has made a mistake when using “both”.

* Postpone this until we know better the R4 status.

[R2-2211219](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211219.zip) Discussion on intrabandENDC OPPO discussion Rel-15 NR\_newRAT-Core

Moved from AI 5.1.3.3

1024 QAM

[R2-2212595](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212595.zip) Discussion on the capability for 1024QAM with 2 layers MIMO Huawei, HiSilicon discussion Rel-17 NR\_newRAT-Core

DISCUSSION

ZTE support.

P1

* Intel are ok with P1. Ericsson too
* Vivo support

P2:

* Intel think we have implemented what RAN1 requested. If we want to change then maybe ask R1. Ericsson agrees and think R1 can discuss directly. This is not needed now
* Vivo support, and think current TS is not sufficient (not clear), but are ok to check with R1.
* HW think for current field absence to indicate two cases, and if we introduce other modulations later there will be issues.

P3

* Intel think maybe this proposal need to be clarified.
* Clarify that UE shall at most report one of *pdsch-1024QAM-2MIMO-FR1-r17*and *pdsch-1024QAM-FR1-r17*.
* Assume to Extend *supportedModulationOrderDL* to include 1024 QAM (confirm with R1).
* The MIMO layer for 1024 QAM is Min (2, *maxNumberMIMO-LayersPDSCH*) for the CC where 1024 QAM is reported
* Assume that Max data rate shall be derived from the higher data rate between 1024 QAM or 256 QAM for CC where 1024 QAM is indicated and the UE support reduced 1024 capability (confirm with R1)
* Assume to Clarify that both *scalingFactor* and *scalingFactor-1024QAM-FR1-r17* can be included for in one per CC capability and legacy *scalingFactor* is used when non-1024 QAM is scheduled (confirm with R1)

Offline 019 (HW) LS out to R1

[R2-2213264](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213264.zip) Draft LS on reduced 1024 QAM capability Huawei LS out Rel-17 NR\_DL1024QAM\_FR1 To:RAN1

* LS is approved in R2-2213343

[R2-2212596](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212596.zip) RRC corrections on the capability for 1024QAM Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3717 - F NR\_newRAT-Core

[R2-2212597](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212597.zip) Corrections on the capability for 1024QAM Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0848 - F NR\_newRAT-Core

* Both postponed

Miscellaneous

[R2-2212837](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212837.zip) Correction on the field name of RAN1 capabilities FG 23-9-2 Support of M=2 and R=1 for FeType-II and 23-9-4 Support of R = 2 for FeType-II MediaTek Inc. CR Rel-17 38.331 17.2.0 3740 - F NR\_FeMIMO-Core

* Intel think this is correct, can be merged with the Rapporteur CR.
* Contents is agreed, merged with Mega CR

[R2-2212838](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212838.zip) Correction on the field name of RAN1 capabilities FG 23-9-2 Support of M=2 and R=1 for FeType-II and 23-9-4 Support of R = 2 for FeType-II MediaTek Inc. CR Rel-17 38.306 17.2.0 0850 - F NR\_FeMIMO-Core

* Contents is agreed, merged with Mega CR

[R2-2212749](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212749.zip) CR on the UE Capabilities with Prerequisite 6-5 ZTE Corporation, Sanechips CR Rel-17 38.306 17.2.0 0849 - F NR\_DSS, LTE\_NR\_DC\_enh2

* Intel think this is correct, think this is editorial.
* Contents is agreed, merged with Mega CR

### 6.0.3 User Plane related aspects

E.g. cross WI coordination on MAC CEs.

NOTE: This AI will be handled in Diana’s break-out session.

[R2-2211447](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211447.zip) Discussion on EHC for DAPS CATT, CMCC discussion Rel-17 NR\_Mob\_enh-Core, NR\_IIOT-Core

[R2-2211448](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211448.zip) CR to 38.331 on Configuration EHC for DAPS CATT, CMCC CR Rel-17 38.331 17.2.0 3601 - F NR\_Mob\_enh-Core, NR\_IIOT-Core

[R2-2211449](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211449.zip) CR to 38.323 on Configuration EHC for DAPS CATT, CMCC CR Rel-17 38.323 17.2.0 0106 - F NR\_Mob\_enh-Core, NR\_IIOT-Core

### 6.0.4 Other

E.g. Multi-TS/high-level issues, Stage-2, 38.304 etc

[R2-2212677](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212677.zip) Clarification on cell reselection priority handling for HSDN and slice-based cell reselection Kyocera CR Rel-17 38.304 17.2.0 0310 - F 5G\_V2X\_NRSL-Core, TEI17, NR\_MBS-Core, NR\_slice-Core

R2-2213338 Clarification on cell reselection priority handling for HSDN and slice-based cell reselection Kyocera, LG Electronics CR Rel-17 38.304 17.2.0 0310 1 F 5G\_V2X\_NRSL-Core, TEI17, NR\_MBS-Core, NR\_slice-Core

[R2-2211964](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211964.zip) Reselection prioritization in release-17 Nokia, Nokia Shanghai Bell CR Rel-17 38.304 17.2.0 0303 - F NR\_MBS-Core, NR\_slice-Core

[R2-2212678](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212678.zip) Correction on Cell Reselection Frequency Prioritization vivo Mobile Com. (Chongqing) CR Rel-17 38.304 17.2.0 0311 - F NR\_HST

[R2-2212913](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212913.zip) Terxt proposal for clarification of freuqency prioritization LG Electronics discussion Rel-17 NR\_slice-Core, NR\_MBS-Core

[R2-2211185](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211185.zip) Further discussion on cell reselection priority handling on coexistence of multiple features Samsung Electronics Co., Ltd discussion Rel-17 TEI17, NR\_MBS-Core, NR\_slice-Core

DISCUSSION

- SS and QC and CMCC think no TS clarification is needed.

- Nokia wonder how the deprioritization request would be considered, this should be clarified.

- LG think we could also keep normative text, and just have a note.

Offline 020, agreeable CR, consider a NOTE to capture changes and somehow take into account deprioritization request (Kyocera)

CB Friday

[R2-2213338](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213338.zip)

- vivo think that LTE sidelink is used in NR for Mode 1.

- SS and Ericsson think it is strange with V2X sidelink, which may not be applicable

- QC think that the priority rules between NR SL V2X SL are already in 38304 (same section) and the intention is not to change those.

- Samsung are ok to have the CR in this meeting.

* CR is Agreed

## 6.1 NR Multicast

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

Tdoc Limitation: 3 tdocs

It is encouraged to contribute with draft CRs or provide TP(s) for the affected specifications in the Annex of the contribution to facilitate the inclusion in the rapporteur CR.

### 6.1.0 In-principle Agreed CRs

Including also endorsed UE capabilities draft CRs.

Not counted towards Tdoc limitation.

[R2-2211657](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211657.zip) MBS corrections for 38.304 CATT, Samsung, Nokia, Nokia Shanghai Bell, ZTE, Sanechips CR Rel-17 38.304 17.2.0 0297 1 F NR\_MBS-Core R2-2210881

[R2-2211762](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211762.zip) MBS corrections for RRC Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3500 3 F NR\_MBS-Core R2-2210883

[R2-2211888](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211888.zip) 38.306 CR for MBS UE capability corrections MediaTek inc. draftCR Rel-17 38.306 17.2.0 F NR\_MBS-Core R2-2210876

[R2-2211889](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211889.zip) 38.331 CR for MBS UE capability corrections MediaTek inc. draftCR Rel-17 38.331 17.2.0 F NR\_MBS-Core R2-2210877

[R2-2211981](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211981.zip) MBS corrections for 38.323 Xiaomi CR Rel-17 38.323 17.2.0 0102 3 F NR\_MBS-Core R2-2210874

[R2-2212501](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212501.zip) Corrections on MBS Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0564 2 F NR\_MBS-Core R2-2211024

### 6.1.1 Organizational

LS ins etc.

[R2-2211151](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211151.zip) LS on the RRC parameter for multicast HARQ-ACK feedback (R1-2210703; contact: Huawei) RAN1 LS in Rel-17 NR\_MBS-Core To:RAN2

### 6.1.2 Stage-2 corrections

### 6.1.3 CP corrections

Including corrections to TS 38.331, TS 38.304, features / UE caps developed in RAN2 (complementary to AI 6.0.2).

[R2-2211302](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211302.zip) Corrections to TS 38.331 on Multicast MRB Handling CATT, CBN CR Rel-17 38.331 17.2.0 3578 - F NR\_MBS-Core

[R2-2211303](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211303.zip) Corrections to TS 38.331 on Broadcast Aspects CATT, CBN CR Rel-17 38.331 17.2.0 3579 - F NR\_MBS-Core

[R2-2211359](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211359.zip) Discussion about RAN2 Impacts of Multicast HARQ Feedback by DCI format 4\_1 vivo Mobile Com. (Chongqing) discussion Rel-17 NR\_MBS-Core

*(moved from 6.1.1)*

[R2-2211365](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211365.zip) RRC Corrections on MBS vivo Mobile Com. (Chongqing) CR Rel-17 38.331 17.2.0 3589 - F NR\_MBS-Core

[R2-2211385](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211385.zip) Correction to harq-FeedbackEnablerMulticast Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3592 - F NR\_MBS-Core

[R2-2211510](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211510.zip) Discussion on MCCH information acquisition for MBS broadcast Huawei, CBN, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2211511](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211511.zip) Corrections on RRC Huawei, CBN, HiSilicon CR Rel-17 38.331 17.2.0 3607 - F NR\_MBS-Core

[R2-2211868](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211868.zip) Discussion on MBS SPS configuration ASUSTeK discussion Rel-17 NR\_MBS-Core

[R2-2211869](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211869.zip) Corrections on MBS SPS configuration ASUSTeK CR Rel-17 38.331 17.2.0 3651 - F NR\_MBS-Core

[R2-2211974](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211974.zip) SNPN and MBS broadcast Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2212121](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212121.zip) Discussion on Group Paging Samsung R&D Institute India discussion Rel-17

[R2-2212271](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212271.zip) RedCap CFR for MBS broadcast Ericsson, Qualcomm Incorporated discussion Rel-17 NR\_MBS-Core, NR\_redcap-Core

[R2-2212272](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212272.zip) Clarification for MCCH acquisition Ericsson, Qualcomm, MediaTek inc., CATT, Nokia, Nokia Shanghai Bell, Google Inc. CR Rel-17 38.331 17.2.0 3687 - F NR\_MBS-Core, NR\_redcap-Core

[R2-2212784](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212784.zip) Clarification on security configuration Google Inc. CR Rel-17 38.331 17.2.0 3735 - F NR\_MBS-Core

[R2-2212928](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212928.zip) CR to TS 38.331 on MBS neighbour cell list ZTE, Sanechips CR Rel-17 38.331 17.2.0 3755 - F NR\_MBS-Core

### 6.1.4 UP corrections

Including corrections to MAC, PDCP, RLC and SDAP.

[R2-2211301](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211301.zip) Corrections for MBS OPPO, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, LG Electronics Inc, vivo, Xiaomi CR Rel-17 38.321 17.2.0 1454 - F NR\_MBS-Core

[R2-2211366](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211366.zip) MAC Corrections on MBS vivo Mobile Com. (Chongqing) CR Rel-17 38.321 17.2.0 1455 - F NR\_MBS-Core

[R2-2211509](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211509.zip) Corrections on MAC Huawei, CBN, HiSilicon CR Rel-17 38.321 17.2.0 1463 - F NR\_MBS-Core

=> Revised in [R2-2212957](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212957.zip)

[R2-2212957](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212957.zip) Corrections on MAC Huawei, CBN, HiSilicon CR Rel-17 38.321 17.2.0 1463 1 F NR\_MBS-Core

[R2-2211593](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211593.zip) DRX Corrections Nokia, Ericsson, Nokia Shanghai Bell, Qualcomm Incorporated discussion Rel-17 NR\_MBS-Core

[R2-2211594](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211594.zip) PDCP Initialisation Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2211870](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211870.zip) Discussion on MBS DRX and SPS issues ASUSTeK discussion Rel-17 NR\_MBS-Core

[R2-2212056](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212056.zip) UE not supporting PTP retransmission via C-RNTI Samsung discussion Rel-17

[R2-2212108](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212108.zip) Multicast HARQ feedback enabling and disabling Samsung R&D Institute India draftCR Rel-17 38.321 17.2.0 F NR\_MBS\_enh-Core

## 6.2 MR DC CA further enhancements

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

Tdoc Limitation: 2 tdocs

No documents should be submitted to 6.2. Please submit to.6.2.x

Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications etc - please contact the Rapporteur before providing contributions on those aspects.

### 6.2.0 In-Principle Agreed CRs

[R2-2211759](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211759.zip) Corrections for DCCA enhancement ZTE Corporation (Rapporteur), Sanechips; Ericsson; CATT CR Rel-17 37.340 17.2.0 0350 2 F TEI17, LTE\_NR\_DC\_enh2-Core R2-2210826

[R2-2212397](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212397.zip) Corrections for further MR-DC enhancements Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3563 2 F LTE\_NR\_DC\_enh2-Core R2-2210828

R2-2212462 Correction on BWP handling for deactivated SCG and the timing requirement for SCG activation Ericsson CR Rel-17 38.331 17.2.0 3702 - F LTE\_NR\_DC\_enh2-Core R2-2210672 Withdrawn

[R2-2212488](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212488.zip) Correction on BWP handling for deactivated SCG Ericsson, CATT CR Rel-17 38.321 17.2.0 1439 2 F LTE\_NR\_DC\_enh2-Core R2-2210672

### 6.2.1 Stage-2 corrections

Including Stage-2 corrections related to DCCA WI.

Including discussion on whether there can be a target SN without SCG in CHO with SN procedure, and what would be the use case for that.

[R2-2211790](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211790.zip) Corrections for DCCA further enhancements ZTE Corporation (Rapporteur), Sanechips CR Rel-17 37.340 17.2.0 0352 - F LTE\_NR\_DC\_enh2-Core

[R2-2211791](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211791.zip) Discussion on CHO with SN procedure ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212255](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212255.zip) Various Rel-17 CPAC Issues Requiring RAN2 Attention Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212396](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212396.zip) Discussion on CHO with SN Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212461](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212461.zip) Discussion on target SN without SCG Ericsson discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212690](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212690.zip) Discussion on remaining issues for conditional reconfiguration CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212881](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212881.zip) CHO with SN procedure to include target SN without SCG case Samsung Electronics Romania discussion

### 6.2.2 Stage-3 corrections

Including essential corrections to CPAC, CHO + MR-DC, deactivated SCG and temporary RS for SCell activation..

Including discussion on whether the restriction on UE ignoring measID that have no CPC associated is a transitory issue or not.

Including discussion on how/whether anything is needed to solve the situation that, unlike Rel-17 UEs, Rel-16 UEs are required to perform conditional measurements regardless whether there is an associated conditional reconfiguration, and the Rel-17 network is not aware of this.

[R2-2211760](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211760.zip) Conditional measurement handling vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2211792](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211792.zip) Discussion on remaining issues for CPAC ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2211887](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211887.zip) feDCCA terminology alignment Samsung R&D Institute UK CR Rel-17 38.331 17.2.0 3655 - F LTE\_NR\_DC\_enh2-Core

[R2-2211965](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211965.zip) Various corrections on deactivated SCG Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3663 - F LTE\_NR\_DC\_enh2-Core

[R2-2212395](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212395.zip) Conditional measurements without conditional reconfiguration Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212460](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212460.zip) Measurements for conditional reconfigurations Ericsson discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212691](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212691.zip) Discussion on remaining issues for deactivated SCG CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2212854](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212854.zip) Calcification on SCG activation condition Google Inc. CR Rel-17 38.331 17.2.0 3744 - F LTE\_NR\_DC\_enh2-Core

[R2-2212882](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212882.zip) Measurement for conditional reconfiguration without referring the related condition Samsung Electronics Romania discussion

[R2-2212925](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212925.zip) Calcification on (NG)EN-DC configurations Google Inc. CR Rel-17 38.331 17.2.0 3754 - F LTE\_NR\_DC\_CA\_enh-Core, LTE\_NR\_DC\_enh2-Core

## 6.3 Multi SIM

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

Tdoc Limitation: 2 tdocs

Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications etc - please contact the Rapporteur before providing contributions on those aspects.

Including discussion on SA2 LS received in R2-2209348

[R2-2211119](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211119.zip) Reply LS on NAS busy indication in RRC\_INACTIVE (S2-2207029; contact: Samsung) SA2 LS in Rel-17 MUSIM To:RAN2 Cc:CT1

[R2-2211246](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211246.zip) Views on NAS busy indication in RRC\_INACTIVE Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2211356](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211356.zip) Aligning paging cause terminology between RAN2, CT1 and SA2 Huawei, HiSilicon discussion Rel-17

[R2-2211357](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211357.zip) Discussion on the aperiodic MUSIM gap handling during handover Huawei, HiSilicon discussion Rel-17

[R2-2211770](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211770.zip) Finalizing re-establishment procedure handling while T346g is running Samsung Electronics Co., Ltd, Ericsson, ASUSTek, ZTE, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2211771](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211771.zip) Correction on re-establishment procedure while T346g is running Samsung Electronics Co., Ltd, Ericsson, ASUSTeK, ZTE, Sanechips draftCR Rel-17 38.331 17.2.0 F LTE\_NR\_MUSIM-Core

[R2-2211801](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211801.zip) Miscellaneous correction of NR RRC support for MUSIM vivo CR Rel-17 38.331 17.2.0 3642 - F LTE\_NR\_MUSIM-Core

[R2-2212111](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212111.zip) Clarifications on Aperiodic gap configuration Nokia Solutions & Networks (I) CR Rel-17 38.331 17.2.0 3671 - F LTE\_NR\_MUSIM-Core

[R2-2212392](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212392.zip) On conflict of UE preferred RRC state report Ericsson discussion

[R2-2212745](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212745.zip) Miscellaneous Correction on MUSIM ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3730 - F LTE\_NR\_MUSIM-Core

[R2-2212746](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212746.zip) CR on the MUSIM Gap Configuration ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3731 - F LTE\_NR\_MUSIM-Core

## 6.4 NR IAB enhancements

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

Time budget: NA

Tdoc Limitation: 2 tdocs

### 6.4.1 Control Plane and Stage-2

38300

[R2-2211817](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211817.zip) Correction to TS 38.300 on the trigger of type 2 indication ZTE, Sanechips CR Rel-17 38.300 17.2.0 0581 - F NR\_IAB\_enh-Core

* QC think we rejected this several times. Don’t need to list all scenarios. LG think this change is already covered by second bullet, no confusion without this change. Vivo agrees
* Not pursued

38331

[R2-2211392](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211392.zip) Miscellaneous correction to TS 38.331 for eIAB Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3593 - F NR\_IAB\_enh-Corebut thikn

* ZTE agree w change 1, think the 2nd is not needed. QC think none of them are needed. Samsung have some sympathy for the first change as it lists all messages. Think 2nd is not needed. Nokia agrees with Samsung, drop the e.g. vivo agrees as well.
* 1st change is agreed for Rel17, merged with RRC rapporteur CR

[R2-2211818](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211818.zip) Correction to TS 38.331 on the IP Address Addition/Modification ZTE, Sanechips CR Rel-17 38.331 17.2.0 3643 - F NR\_IAB\_enh-Core

* LG think we dont need to add this, also IP usage blabla is optional ..
* Ericsson think this is correct, but not sure how stringent we should be
* SS think this is ok
* HW think this is rel16 text, so if we fix this we should do it fro Rel-16 .
* Not pursued

[R2-2212430](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212430.zip) Miscellaneous RRC corrections for eIAB Ericsson CR Rel-17 38.331 17.2.0 3700 - F NR\_IAB\_enh-Core

* LG are ok if merged.
* HW think this is rel16 text as well.
* Contents agreed for R16 and R17, merged with RRC rapporteur CRs.

### 6.4.2 User Plane

38321

[R2-2211391](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211391.zip) Miscellaneous correction to TS 38.321 for eIAB Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1456 - F NR\_IAB\_enh-Core

* SS think that we don’t have description for all MAC CEs and this is a simple one.
* Nokia wonder if this is a proper MAC CE. SS think it is k
* 1st change Agreeable, merge with Rapporteur CR

[R2-2212429](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212429.zip) Discussion on DL TX Power Adjustment range Ericsson discussion Rel-17 NR\_IAB\_enh-Core

[R2-2212428](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212428.zip) Clarification on DL TX Power Adjustment range Ericsson CR Rel-17 38.321 17.2.0 1490 - F NR\_IAB\_enh-Core

* Samsung would like to consult R1.
* HW agrees something need to be fixed, but think the mapping can be done in R2 TS.
* ZTE ok with intention but think the CR need modification, and the values are not defined, think there are 21 values in R1, no need to send LS to R1
* LG think that if this causes R1 change.

Offline 027, work on CR, check with R1 (Ericsson)

- Ericsson think R1 is working on this so postpone

* Postponed

[R2-2211878](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211878.zip) Rapporteur miscellaneous corrections to 38.321 on Integrated Access and Backhaul for NR Rel-17 Samsung R&D Institute UK CR Rel-17 38.321 17.2.0 1474 - F NR\_IAB\_enh-Core

* LG think all changes are agreeable.
* HW think 1st change doesn’t change anything. SS explains
* Changes are agreeable

[R2-2213276](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213276.zip) Rapporteur miscellaneous corrections to 38.321 on Integrated Access and Backhaul for NR Rel-17 Samsung R&D Institute UK CR Rel-17 38.321 17.2.0 1474 1 F NR\_IAB\_enh-Core

* agreed

38340

[R2-2211390](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211390.zip) Miscellaneous corrections in TS 38.340 for eIAB Huawei, HiSilicon CR Rel-17 38.340 17.2.0 0030 - F NR\_IAB\_enh-Core

- ZTE think this need to be reworded, think we should use “enable indicator”.

Offline 028 (HW)

[R2-2212999](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212999.zip) Miscellaneous corrections in TS 38.340 for eIAB Huawei, HiSilicon CR Rel-17 38.340 17.2.0 0030 1 F NR\_IAB\_enh-Core

* agreed

## 6.5 NR IIoT URLLC

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

Tdoc Limitation: 2 tdocs

### 6.5.1 Organizational

Including LSs, rapporteur correction CR, and any rapporteur inputs (e.g. from ASN.1 ad-hoc meeting).

### 6.5.2 Control Plane

A single CR 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

[R2-2211552](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211552.zip) Correction to PDC in RRC Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3614 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2211994](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211994.zip) Consideration on Time Synchronization Status notification towards UE(s) ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2211997](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211997.zip) Reply LS on Time Synchronization Status notification towards UE(s) ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd LS out NR\_IIOT\_URLLC\_enh-Core To:SA2, RAN3, SA3 Cc:RAN1

### 6.5.3 User Plane

A single CR 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

[R2-2211722](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211722.zip) Discussion on CG timer aspects Apple discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2211723](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211723.zip) Clarification for a DG overruling a CG Apple CR Rel-17 38.321 17.2.0 1471 - F NR\_IIOT\_URLLC\_enh-Core

## 6.6 Small Data enhancements

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

Tdoc Limitation: 2 tdocs

[R2-2211104](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211104.zip) Reply LS on common search space for small data transmission (R1-2208107; contact: ZTE) RAN1 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2

### 6.6.1 Organizational

Including LSs, rapporteur correction CR and any rapporteur inputs (e.g. from ASN.1 ad-hoc meeting).

[R2-2211263](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211263.zip) Correction to MAC spec for Small Data Transmission Huawei, HiSilicon, Google CR Rel-17 38.321 17.2.0 1451 - F NR\_SmallData\_INACTIVE-Core

[R2-2212874](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212874.zip) Correction for SDT Stage-2 Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0595 - F NR\_SmallData\_INACTIVE-Core

### 6.6.2 User plane common aspects

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

[R2-2211174](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211174.zip) Corrections for RA during CG-SDT procedure Samsung Electronics Co., Ltd draftCR Rel-17 38.321 17.2.0 NR\_SmallData\_INACTIVE-Core

[R2-2211175](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211175.zip) Miscellaneous Corrections for SDT operation Samsung Electronics Co., Ltd draftCR Rel-17 38.321 17.2.0 NR\_SmallData\_INACTIVE-Core

[R2-2211265](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211265.zip) Correction to CG-SDT without retransmission timer Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1452 - F NR\_SmallData\_INACTIVE-Core

[R2-2211469](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211469.zip) Bj Parameter and time T Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2211649](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211649.zip) MAC Correction on SDT for RedCap UE vivo Mobile Com. (Chongqing) CR Rel-17 38.321 17.2.0 1468 - F NR\_SmallData\_INACTIVE-Core, NR\_redcap-Core

[R2-2211882](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211882.zip) Corrections on RNTI usage for SDT NEC draftCR Rel-17 38.321 17.2.0 F NR\_SmallData\_INACTIVE-Core

[R2-2212200](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212200.zip) Discussion the SSB evaluation in CG-SDT for RedCap UE Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2212201](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212201.zip) Correction on SSB evaluation in CG-SDT for RedCap UE Qualcomm Incorporated CR Rel-17 38.321 17.2.0 1488 - F NR\_SmallData\_INACTIVE-Core

[R2-2212875](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212875.zip) Beam failure issue with RA-SDT Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2212876](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212876.zip) Correction for beam failure issue with RA-SDT Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1500 - F NR\_SmallData\_INACTIVE-Core

### 6.6.3 Control plane common aspects

A single CR with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur.

Big critical issues can be discussed in a contribution with CR in the appendix of the contribution

[R2-2211264](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211264.zip) Correction to RSRP-based TA validation Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3575 - F NR\_SmallData\_INACTIVE-Core

[R2-2211470](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211470.zip) On HARQ process offset Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2211523](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211523.zip) RRC corrections for SDT ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3608 - F NR\_SmallData\_INACTIVE-Core

[R2-2211627](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211627.zip) Correction on when to consider SDT procedure is not ongoing CATT CR Rel-17 38.331 17.2.0 3623 - F NR\_SmallData\_INACTIVE-Core

[R2-2211659](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211659.zip) Clarification on CG-SDT-Configuration vivo Mobile Com. (Chongqing) CR Rel-17 38.331 17.2.0 3628 - F NR\_SmallData\_INACTIVE-Core

[R2-2211883](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211883.zip) Control plane corrections for SDT NEC draftCR Rel-17 38.331 17.2.0 F NR\_SmallData\_INACTIVE-Core

[R2-2212194](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212194.zip) HARQ process offset configuration and repetition capability for SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2212578](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212578.zip) CR for clarification for SDT on NR-U LG Electronics Inc. CR Rel-17 38.321 17.2.0 1492 - F NR\_SmallData\_INACTIVE-Core

=> Withdrawn

[R2-2212719](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212719.zip) Correction on L2 handling of SDT in RRCReject MediaTek Inc. CR Rel-17 38.331 17.2.0 3726 - F NR\_SmallData\_INACTIVE-Core

[R2-2212786](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212786.zip) Clarification on RRC re-establishment for SDT failure cases LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2212958](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212958.zip) CR for clarification for SDT on NR-U LG Electronics Inc. CR Rel-17 38.331 17.2.0 3756 - F NR\_SmallData\_INACTIVE-Core

## 6.7 NR Sidelink relay

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

Tdoc Limitation: 3 tdocs

### 6.7.0 In-principle agreed CRs

CRs AIP from RAN2#119bis-e.

[R2-2211211](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211211.zip) Correction for L2 U2N Relay OPPO CR Rel-17 38.351 17.2.0 0012 1 F NR\_SL\_relay-Core R2-2210972

[R2-2211747](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211747.zip) Misc RRC CR for SL relay Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3549 2 F NR\_SL\_relay-Core R2-2210902

[R2-2212202](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212202.zip) RLC correction for SL relay Samsung CR Rel-17 38.322 17.1.0 0050 1 F NR\_SL\_relay-Core R2-2210915

[R2-2212203](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212203.zip) PDCP correction for SL relay Samsung CR Rel-17 38.323 17.2.0 0104 1 F NR\_SL\_relay-Core R2-2210916

[R2-2212433](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212433.zip) Correction on 38.304 for SL relay Ericsson, Nokia, Nokia Shanghai Bell CR Rel-17 38.304 17.2.0 0288 2 F NR\_SL\_relay-Core R2-2210970

### 6.7.1 General and stage 2 corrections

Incoming LSs, etc., and any stage 2 corrections (impact to 38.300).

[R2-2211128](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211128.zip) Reply LS on Cast Type for Discovery message (S2-2209277; contact: Qualcomm) SA2 LS in Rel-17 5G\_ProSe, NR\_SL\_relay-Core To:RAN2 Cc:CT1

[R2-2211142](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211142.zip) Reply LS on TP to TR 37.985 (R1-2210494; contact: Huawei) RAN1 LS in Rel-17 NR\_SL\_relay-Core To:RAN2

[R2-2211147](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211147.zip) Reply LS on resource pool index in DCI Format 3\_0 (R1-2210585; contact: vivo) RAN1 LS in Rel-17 NR\_SL\_relay-Core To:RAN2

[R2-2211669](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211669.zip) Further discussion on RAN1 reply LS in R1-2210585 on resource pool index in DCI Format 3\_0 vivo discussion

[R2-2211670](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211670.zip) Correction on dedicated mode-1 discovery transmission pool in TS 38.306 vivo CR Rel-17 38.306 17.2.0 0833 - F NR\_SL\_relay-Core

[R2-2211671](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211671.zip) Correction on dedicated mode-1 discovery transmission pool in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3629 - F NR\_SL\_relay-Core

[R2-2211672](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211672.zip) Correction to TS 37.340 on Sidelink based U2N Relay vivo CR Rel-17 37.340 17.2.0 0351 - F NR\_SL\_relay-Core

[R2-2211748](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211748.zip) Discussion on TP to TR 37.985 (RAN1 reply LS R1-2210494) Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2211749](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211749.zip) RRC corrections for SL relay Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3638 - F NR\_SL\_relay-Core

[R2-2211806](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211806.zip) Corrections on SRAP bearer mapping ASUSTeK CR Rel-17 38.300 17.2.0 0580 - F NR\_SL\_relay-Core

[R2-2211900](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211900.zip) Corrections to TS 38.300 for SL relay ZTE, Sanechips, Apple CR Rel-17 38.300 17.2.0 0582 - F NR\_SL\_relay-Core

[R2-2212067](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212067.zip) Corrections for sideling relay in stage 2 specification Lenovo Information Technology CR Rel-17 38.300 17.2.0 0584 - F NR\_SL\_relay-Core

[R2-2212135](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212135.zip) Correction the cast type for discovery message in AS layer CATT CR Rel-17 38.321 17.2.0 1484 - F NR\_SL\_relay\_enh-Core

[R2-2212514](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212514.zip) SL discovery casttype clarification Qualcomm Incorporated discussion Rel-17 NR\_SL\_relay-Core

### 6.7.2 Control plane corrections

Including connection management, SI delivery, paging, access control for remote UE, and service continuity.

[R2-2211210](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211210.zip) Discussion on left issues for CP OPPO discussion Rel-17 NR\_SL\_relay-Core

[R2-2211296](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211296.zip) Discussion on the AS layer condition for a remote UE SHARP Corporation discussion NR\_SL\_relay-Core

[R2-2211606](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211606.zip) Discussion on the support of discovery RP scheduling Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2211673](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211673.zip) Discussion on a questionable change in IPA CR R2-2210902 vivo discussion

[R2-2211674](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211674.zip) Correction to RLC handling upon reception of RRCRelease message with suspendConfig vivo CR Rel-17 38.331 17.2.0 3630 - F NR\_SL\_relay-Core

[R2-2211750](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211750.zip) Remaining CP correction for sidelink relay Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2211872](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211872.zip) Correction on handover notification forwarding Xiaomi CR Rel-17 38.331 17.2.0 3653 - F NR\_SL\_relay-Core

[R2-2211873](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211873.zip) Correction on remote UE's resource allocation Xiaomi, Ericsson CR Rel-17 38.331 17.2.0 3654 - F NR\_SL\_relay-Core

[R2-2211898](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211898.zip) Correction on sync reference resource selection for remote UE ZTE, Sanechips CR Rel-17 38.331 17.2.0 3724 - F NR\_SL\_relay-Core

[R2-2211899](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211899.zip) Corrections on cast type for SL discovery ZTE, Sanechips discussion Rel-17 NR\_SL\_relay-Core

[R2-2211949](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211949.zip) Miscellaneous corrections on TS 38.331 for NR sidelink relay Xiaomi CR Rel-17 38.331 17.2.0 3661 - F NR\_SL\_relay-Core

[R2-2212066](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212066.zip) Corrections for sideling relay in TS38.331 Lenovo Information Technology CR Rel-17 38.331 17.2.0 3670 - F NR\_SL\_relay-Core

[R2-2212136](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212136.zip) Miscellaneous corrections on TS 38.331 for NR Sidelink Relay CATT CR Rel-17 38.331 17.2.0 3675 - F NR\_SL\_relay\_enh-Core

[R2-2212204](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212204.zip) Correction on RRC for SL relay Samsung draftCR Rel-17 38.331 17.2.0 F NR\_SL\_relay-Core

[R2-2212252](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212252.zip) RSRP measurement issue Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_relay-Core Late

[R2-2212399](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212399.zip) On Mapping Resource Pool Index in DCI format 3\_0 Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay-Core

[R2-2212434](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212434.zip) Clarification on capability filter for sidelink relay Ericsson CR Rel-17 38.331 17.2.0 3701 - F NR\_SL\_relay-Core

[R2-2212658](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212658.zip) Correction on full configuration for remote UE Sharp discussion

[R2-2212666](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212666.zip) Correction on full configuration for remote UE in 38.331 Sharp draftCR Rel-17 38.331 17.2.0 NR\_SL\_relay-Core

[R2-2212694](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212694.zip) Correction for handling dedicated discovery resource pool for U2N Relay LG Electronics France draftCR Rel-17 38.331 17.2.0 F NR\_SL\_relay-Core

### 6.7.3 User plane corrections

Including SRAP aspects and QoS.

[R2-2211397](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211397.zip) Correction on cast type setting of discovery message OPPO CR Rel-17 38.321 17.2.0 1459 - F NR\_SL\_relay-Core

[R2-2211398](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211398.zip) Correction on exceptional resource pool usage for discovery message transmission OPPO CR Rel-17 38.321 17.2.0 1460 - F NR\_SL\_relay-Core

[R2-2211503](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211503.zip) Alignment between remote UE paging DRX and relay UE Uu DRX Ericsson discussion Rel-17 NR\_SL\_relay-Core R2-2209860

[R2-2211504](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211504.zip) Corrections to 38.321 on alignment between remote UE paging DRX and relay UE Uu DRX Ericsson CR Rel-17 38.321 17.2.0 1417 1 F NR\_SL\_relay-Core R2-2209861

[R2-2211605](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211605.zip) Clarification on MAC filtering for discovery message Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2211701](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211701.zip) Discussion on SA2 Reply LS on cast type for discovery message Apple discussion NR\_SL\_relay-Core

[R2-2211702](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211702.zip) Correction on the cast type in SL discovery transmission and reception Apple CR Rel-17 38.321 17.2.0 1470 - F NR\_SL\_relay-Core

[R2-2211703](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211703.zip) Miscellaneous Correction on the RLC for U2N relay-specific operations Apple CR Rel-17 38.322 17.1.0 0051 - F NR\_SL\_relay-Core

[R2-2212137](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212137.zip) Correction on SRAP for sidelink relay CATT CR Rel-17 38.351 17.2.0 0013 - F NR\_SL\_relay\_enh-Core

## 6.8 RAN slicing

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

Tdoc Limitation: 2 tdocs

Proposals that do not provide relevant Stage-3 details will not be treated.

Including further disucssion on SA2 LS R2-2209358 and how to capture applicability of slice-based RACH in RRC states

[R2-2211186](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211186.zip) Clarification on the applicability of slice-based RACH in RRC states Samsung Electronics Co., Ltd draftCR Rel-17 38.300 17.2.0 F NR\_slice-Core

[R2-2211962](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211962.zip) Clarification on the slice information for cell reselection OPPO CR Rel-17 38.304 17.2.0 0302 - F NR\_slice-Core

[R2-2211963](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211963.zip) Clarification on the slice information for random access OPPO CR Rel-17 38.331 17.2.0 3662 - F NR\_slice-Core

[R2-2212006](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212006.zip) Discussion on the LS from SA2 and CT1 and slice based RACH in RRC state CATT discussion Rel-17 NR\_slice-Core

[R2-2212007](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212007.zip) Correction on TS 38 304 to align with SA2 and CT1 progress CATT CR Rel-17 38.304 17.2.0 0304 - F NR\_slice-Core

[R2-2212152](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212152.zip) AS-NAS for Slice-based cell re-selection Ericsson CR Rel-17 38.304 17.2.0 0305 - F NR\_slice-Core

[R2-2212153](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212153.zip) Slice-based random access Ericsson CR Rel-17 38.331 17.2.0 3679 - F NR\_slice-Core

[R2-2212210](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212210.zip) Discussion on slice based cell reselection Huawei, HiSilicon discussion Rel-17 NR\_slice-Core

[R2-2212211](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212211.zip) Discussion on slice based random access Huawei, HiSilicon discussion Rel-17 NR\_slice-Core

[R2-2212251](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212251.zip) Slice Group considerations based on CT1/SA2 LSs Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_slice-Core

[R2-2212316](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212316.zip) Discussion on postponed issue for slice specific cell reselection Samsung R&D Institute India discussion

[R2-2212568](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212568.zip) Relationship between SIB16 and dedicated signalling Kyocera discussion

[R2-2212696](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212696.zip) Correction on handling of the NSAG information in cell reselection ZTE Corporation, Sanechips, Samsung CR Rel-17 38.304 17.2.0 0312 - F NR\_slice-Core

[R2-2212785](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212785.zip) Clarification on the detemination of NSAG for slice-based RACH LG Electronics Inc. CR Rel-17 38.331 17.2.0 3736 - F NR\_slice-Core

[R2-2212914](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212914.zip) Discussion on slice aware cell reselection LG Electronics discussion Rel-17 NR\_slice-Core

## 6.9 UE Power Saving

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

Tdoc Limitation: 2 tdocs

### 6.9.1 Control Plane and Stage-2

PDCCH skip

[R2-2211106](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211106.zip) LS on PDCCH skipping (R1-2208210; contact: MediaTek) RAN1 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2

* Noted, may reply

[R2-2212303](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212303.zip) PDCCH skipping in RAN1 and RAN2 specification Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* Noted

[R2-2211773](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211773.zip) Discussion on ignoring PDCCH skipping Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* Ericsson are not OK to list the cases in the RAN2 TS, should just be in one TS. Nokia think R1 doesn’t cover the case after contention resolution.
* Apple prefer to keep the text in Stage-2.
* LG has sympathy for Ericsson
* OPPO think that acc to R1 TS the UE will follow skipping also after contention resolution.
* HW tink that after SR case is also not captured in R1 TS.

RAN2 initial understanding

* R2 confirm that UE shall monitor PDCCH regardless skipping on SpCell after successful contention resolution for the RA procedure
* R2 confirm that UE shall monitor PDCCH regardless skipping on SpCell after SR
* Remove the cases from 38300, could keep PDCCH skipping and refer to R1 TS (TBD offline). Send LS to R1 to capture the missing case in R1 TS.

[R2-2213288](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213288.zip) Clarification on PDCCH skipping MediaTek Inc., Ericsson CR Rel-17 38.300 17.2.0 0599 - D NR\_UE\_pow\_sav\_enh-Core

R2-2213340 Clarification on PDCCH skipping MediaTek Inc., Ericsson CR Rel-17 38.300 17.2.0 0599 1 D NR\_UE\_pow\_sav\_enh-Core

* Agreed

[R2-2213289](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213289.zip) Reply LS on PDCCH skipping RAN2 LS out Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN1

- Samsung think that ignoring on spCell should be ignoring on all cells of a CG, this need to be corrected. OPPO think this is for the SR case only. Vivo are ok to update for SR case.

- vivo think we just copy paste the Chair Notes on R2 understanding in the LS.

- Ericsson are probably ok with this, maybe need to check.

- Nokia ok with the proposals above and also ok with current LS

UE shall monitor PDCCH regardless of previously received skipping command on all serving cells of the corresponding Cell Group after the pending SR is cancelled due to an UL grant.

- Xiaomi think it is safer to just copy-paste the Chair notes. Let R1 discuss from original text.

- CATT think that the first two bullets are sufficient.

- QC support this.

- vivo think that if there is an UL grant the UE will monitor PDCCH anyway acc to R1 TS.

- Nokia think that R1 can figure out if they have covered this or not.

- Appl think that we can ask explicitly ..

- ZTE think we can capture this as R2 understanding or remove.

- CATT are ok with all bullets in the LS now after clarification.

* Continue work based on the three bullets in the draft LS, allow time to check, can consider modifications to make text brief and clear ..

Offline 035, LS (Mediatek)

[R2-2213341](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213341.zip) [Draft] Reply LS on PDCCH skipping MediaTek Inc. LS out Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN1

* LS out is approved in R2-2213349

[R2-2212835](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212835.zip) [Draft] Reply LS on PDCCH skipping MediaTek Inc. LS out Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN1

[R2-2211184](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211184.zip) Draft reply LS to PDCCH skipping Qualcomm Incorporated LS out Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN1

[R2-2211478](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211478.zip) Correction on TS 38.300 for ePowSav vivo CR Rel-17 38.300 17.2.0 0575 - F NR\_UE\_pow\_sav\_enh-Core

PEI

[R2-2211603](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211603.zip) Discussion on the PEI capability maintenance Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* Xiaomi think that the network deployment fixes this. The network is required to support homogenously, OPPO agrees, VDF agrees as well. HW think we didn’t agree homogenous requirement for this case.
* Ericsson think there is some truth to the HW observation. Legacy gNB us required to support the latest ASN.1
* Noted, not agreeable (no support)

[R2-2211604](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211604.zip) Discussion on the update of last used cell Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* Ericsson think we should follow option 1 as LTE
* Vivo think the network knows when security is activated so the network can handle this by impl. LG think that if the network doesn’t include this then the UE updates anyway. LG prefer O2. MTK think both ways can work have a slight preference for O2. OPPO also prefer O2. Apple also prefer Option 2.
* Nokia think there is better control in O1.
* Ericsson prefer to follow LTE.
* O2: Clarify that the UE does not update its last used cell in case the AS security is not activated, regardless of whether the *noLastCellUpdate* field is included in *RRCRelease*.

Offline 029 for a draft CR (HW)

CB again Friday.

[R2-2213302](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213302.zip) RRC correction on update of last used cell Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3764 - F NR\_UE\_pow\_sav\_enh-Core

- Ericsson would like to revisit the decision above. Want to know what is the impact in R3. Huawei think there is no impact on R3.

* agreed

[R2-2211772](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211772.zip) PEI monitoring with UE specific DRX cycle Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* Nokia think that we would typically associate PEI with cell specific paging cycle.
* Ericsson think the PEI refers to a PO. Nokia think search space would be configured for PEI with some periodicity.
* CATT also don’t understand the issue.
* Vivo think this is for a bad network impl. Think we can clarify something in the TS in a Note but nothing else.
* LG think there is no critical use.

Offline 030

- Nokia reports that a change is not needed and the following observations

O1: No issue since UE specific PF would always overlap with cell specific ones.

O2: No issue with PEI monitoring for UE specific DRX cycle.

* Noted

[R2-2211477](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211477.zip) Correction on PEI configuration vivo CR Rel-17 38.331 17.2.0 3602 - F

NR\_UE\_pow\_sav\_enh-Core

* Xiaomi wonder if this has been agreed already
* Not purseud

[R2-2211905](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211905.zip) Correction on iPo determination for UE operates with eDRX ZTE Corporation, Sanechips CR Rel-17 38.304 17.2.0 0301 - F NR\_redcap-Core

* Contents is agreed

[R2-2212304](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212304.zip) PEI and WUS during an emergency Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* HW think the gNB doesn’t know.
* VDF wonder if P4 is correct, and on one hand think the power saving is marginal but support it there are issues.
* Xiaomi wonder how the UE can know. Apple think this is MO for the first connection, and Apple support this.
* Nokia think that the latency gain is not big. Ericsson think we just need to make it consistent. Nokia think we can still keep RAN based, and CN based subgrouping is anyway under CN control.
* Ericsson think there is an interop problem with UE ID based subgrouping. Intel agrees.
* Chair: no consensus to make any updates. IF there is an issue proponent can CB next meeting.

Offline s, agreeable way forward (ericsson).

- Ericsson reports no convergence, ok to allow UE\_ID based subgrouping, but think this could be misunderstood based on CT1 TS. Chair: we close this discussion for this meeting.

* Noted

[R2-2211476](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211476.zip) Miscellaneous CR on TS 38.304 for ePowSav vivo CR Rel-17 38.304 17.2.0 0298 - F NR\_UE\_pow\_sav\_enh-Core Late

- Vivo reports no objection comments on the contents of this CR. Just editorial.

Offline 031.

[R2-2213339](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213339.zip) Miscellaneous CR on TS 38.304 for ePowSav vivo CR Rel-17 38.304 17.2.0 0298 1 D NR\_UE\_pow\_sav\_enh-Core Late

* agreed

RLM BFD relax

[R2-2211114](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211114.zip) Reply LS to RAN2 on RLM/BFD relaxation (R4-2214475; contact: vivo) RAN4 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2

* noted

mTRP

[R2-2212549](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212549.zip) Reconsiderations on BFD Relaxation for two BFD-RS sets ZTE Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* Noted

[R2-2212550](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212550.zip) CR on 38.331 for BFD relaxation when two BFD-RS sets are configured ZTE Corporation, Xiaomi, Sanechips CR Rel-17 38.331 17.2.0 3709 - F NR\_UE\_pow\_sav\_enh-Core

* OPPO support this proposal
* QC think RLMBFD relax is beneficial for mTRP, think we can just wait for RAN4 progress, Vivo agree it is beneficial but think we can make decision in RAN2.
* Nokia are ok with ZTE proposal, think there is impact.
* Fujitsu also see issues as ZTE but think there are benefits and think for low mobility we need to fix something.
* HW and Ericsson support ZTE proposal.
* QC think we can leave this to network impl
* Ericsson think we should capture in TS. Fujitsu agrees.
* QC vivo ZTE: there seems to be support to fix this in TEI18. Chair think that is ok.
* There is no support for BFD relaxation with multiple BFD RS Sets in REl-17
* Contents is agreed.

[R2-2211843](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211843.zip) BFD relaxation for serving cell with mTRP Fujitsu discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2211844](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211844.zip) BFD relaxation for serving cell with mTRP Fujitsu CR Rel-17 38.331 17.2.0 3649 - F NR\_UE\_pow\_sav\_enh-Core

Misc Clarifications

[R2-2212843](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212843.zip) RLM and BFD relaxation reporting configurations are missed in the field description of otherConfig while being configured for SCG MediaTek Inc. CR Rel-17 38.331 17.2.0 3741 - F NR\_UE\_pow\_sav\_enh-Core

* Contents is agreed

[R2-2212533](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212533.zip) Miscellaneous Corrections on TS 37.340 for ePowSav Xiaomi Communications,CATT, MediaTek Inc, Nokia, Nokia Shanghai Bell CR Rel-17 37.340 17.2.0 0353 - F NR\_UE\_pow\_sav\_enh-Core

* Ericsson wonder if there would be a general description for UAI for deactivated CG.
* CATT think in RRC this beh is specific per case.
* Contents is agreed

[R2-2211342](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211342.zip) RRC correction on BFD relaxation OPPO CR Rel-17 38.331 17.2.0 3585 - F NR\_UE\_pow\_sav\_enh-Core

- CATT think this change has no consequence for the actual reporting. OPPO think this limits some reporting.

- ZTE has same understanding as CATT.

- vivo think there is an non-necessary report, but just one-shot, has been discussed before.

- HW also think this is not needed. Apple also agree with CATT.

* Not sufficient support, not pursued.

[R2-2211343](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211343.zip) Correction on UE capabilities of RLM & BFD relaxation OPPO CR Rel-17 38.306 17.2.0 0828 - F NR\_UE\_pow\_sav\_enh-Core

- vivo think this is clear in RRC.

- Apple think the reporting is bundled already with this capability.

- Intel also think the reporting capability is already handled. QC agrees.

* Not pursued

Withdrawn

R2-2211824 BFD relaxation for serving cell with mTRP Fujitsu discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core Withdrawn

R2-2211825 BFD relaxation for serving cell with mTRP Fujitsu CR Rel-17 38.331 17.2.0 3646 - F NR\_UE\_pow\_sav\_enh-Core Withdrawn

## 6.10 NR Non-Terrestrial Networks (NTN)

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

Tdoc Limitation: 3 tdocs

### 6.10.0 In-principle agreed CRs

CRs AIP from RAN2#119bis-e.

[R2-2212335](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212335.zip) Corrections to Release-17 NR Non-Terrestrial Networks (NTN): RAN2#119bis-e InterDigital CR Rel-17 38.321 17.2.0 1446 1 F NR\_NTN\_solutions-Core R2-2210868

[R2-2212607](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212607.zip) dle mode corrections for Rel-17 NR NTN ZTE Corporation, Samsung, Sanechips CR Rel-17 38.304 17.2.0 0296 1 F NR\_NTN\_solutions-Core R2-2210869 Revised

[R2-2212779](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212779.zip) RRC corrections for Rel-17 NR NTN Ericsson CR Rel-17 38.331 17.2.0 3570 1 F NR\_NTN\_solutions-Core R2-2211018

[R2-2212820](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212820.zip) Idle mode corrections for Rel-17 NR NTN ZTE Corporation, Samsung, Sanechips CR Rel-17 38.304 17.2.0 0296 2 F NR\_NTN\_solutions-Core [R2-2212607](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212607.zip)

### 6.10.1 General and Stage 2 corrections

LSs, rapporteur inputs and Stage 2 corrections. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

[R2-2211132](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211132.zip) LS on Satellite coverage data transfer to a UE using UP versus CP (S2-2209684; contact: Qualcomm) SA2 LS in Rel-18 FS\_5GSAT\_Ph2 To:CT1 Cc:RAN2, RAN3, SA3

[R2-2211169](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211169.zip) Reply LS on measurement gap enhancements for NTN (R4-2217175; contact: Apple) RAN4 LS in Rel-17 NR\_NTN\_solutions, NR\_MG\_enh To:RAN2

[R2-2211326](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211326.zip) Correction on Stage-2 descriptions for NR NTN vivo CR Rel-17 38.300 17.2.0 0573 - F NR\_NTN\_solutions-Core

[R2-2211340](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211340.zip) NTN Stage-2 correction OPPO CR Rel-17 38.300 17.2.0 0574 - F NR\_NTN\_solutions-Core

[R2-2211570](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211570.zip) Clarification on support of TN NTN mobility during RRC\_INACTIVE Qualcomm Incorporated CR Rel-17 38.300 17.2.0 0577 - F NR\_NTN\_enh

[R2-2212444](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212444.zip) Discussion on Stage 2 corrections Samsung Research America discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212952](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212952.zip) R17 NR NTN stage 2 issues Ericsson discussion Rel-17 NR\_NTN\_solutions

### 6.10.2 UP corrections

[R2-2212950](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212950.zip) R17 NR NTN MAC issues Ericsson discussion Rel-17 NR\_NTN\_solutions

### 6.10.3 CP corrections

[R2-2211308](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211308.zip) Corrections on validity of SIB19 CATT CR Rel-17 38.331 17.2.0 3580 - F NR\_NTN\_solutions-Core

R2-2211327 Correction on propogation delay reporting for NR NTN in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3581 - F NR\_NTN\_solutions-Core Withdrawn

[R2-2211328](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211328.zip) Correction on T430 handling in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3582 - F NR\_NTN\_solutions-Core

[R2-2211339](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211339.zip) RRC correction on valid timer and SIB19 acquisition OPPO CR Rel-17 38.331 17.2.0 3583 - F NR\_NTN\_solutions-Core

[R2-2211341](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211341.zip) RRC correction on NTN measurements OPPO, ZEKU CR Rel-17 38.331 17.2.0 3584 - F NR\_NTN\_solutions-Core

[R2-2211368](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211368.zip) IOT bit for inter satellite measurement Mediatek Inc. CR Rel-17 38.331 17.2.0 3590 - F NR\_NTN\_solutions-Core

[R2-2211369](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211369.zip) IOT bit for inter satellite measurement Mediatek Inc. CR Rel-17 38.306 17.2.0 0829 - F NR\_NTN\_solutions-Core

[R2-2211370](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211370.zip) Correction on frequency band indicator Mediatek Inc. CR Rel-17 38.331 17.2.0 3591 - F NR\_NTN\_solutions-Core

[R2-2211371](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211371.zip) UE behaviour based on the neighbor cell information between SIB3, SIB4, measObjectNR and SIB19 Mediatek Inc. discussion Rel-17

[R2-2211406](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211406.zip) Draft 331 CR for NR NTN UE capabilities Intel Corporation, Qualcomm Inc. draftCR Rel-17 38.331 17.2.0 F NR\_NTN\_solutions-Core

[R2-2211407](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211407.zip) Draft 306 CR for NR NTN UE capabilities Intel Corporation, Qualcomm Inc. draftCR Rel-17 38.306 17.2.0 F NR\_NTN\_solutions-Core

[R2-2211408](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211408.zip) Clarification on NR NTN trackingAreaList Intel Corporation CR Rel-17 38.331 17.2.0 3594 - F NR\_NTN\_solutions-Core

[R2-2211514](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211514.zip) Discussion on RNA configuration across TN and NTN cells Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2211568](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211568.zip) Discussion for clarification on TN NTN mobility in RRC\_INACTIVE Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2211569](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211569.zip) Clarification on TN NTN mobility during RRC\_INACTIVE Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3620 - F NR\_NTN\_solutions-Core

[R2-2211727](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211727.zip) Clarification on the concurrent measurement gap configuration Apple CR Rel-17 38.331 17.2.0 3637 - F NR\_NTN\_solutions-Core

[R2-2211728](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211728.zip) Clarification on NTN RRM measurement capability Apple CR Rel-17 38.306 17.2.0 0834 - F NR\_NTN\_solutions-Core

[R2-2211807](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211807.zip) Clarification on NTN configuration for handover ASUSTeK discussion Rel-17 38.331 NR\_NTN\_solutions-Core

[R2-2211894](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211894.zip) Discussion on propagation delay difference reporting in TS 38.331 vivo discussion

[R2-2212065](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212065.zip) Correction for timer T430 upon going to RRC\_IDLE Lenovo Information Technology CR Rel-17 38.331 17.2.0 3669 - F NR\_NTN\_solutions-Core

[R2-2212256](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212256.zip) CSI-RSs for L3 Measurements in Rel-17 NTN Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3686 - F NR\_NTN\_solutions-Core

[R2-2212257](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212257.zip) NR RRC CR on Neighbour Cell Ephemeris Signalling Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3539 1 F NR\_NTN\_solutions-Core R2-2210346

[R2-2212258](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212258.zip) On T430 and epochTime - Final Clarifications Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212277](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212277.zip) Further consideration on NTN neighbour cell list in SIB19 ZTE Corporation, Sanechips discussion R2-2210663

[R2-2212278](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212278.zip) Clarification on the NTN neighbour cell list in SIB19 ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3688 - F NR\_NTN\_solutions-Core

[R2-2212317](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212317.zip) Discussion on IOT bit for inter satellite measurement Mediatek India Technology Pvt. discussion

[R2-2212445](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212445.zip) Discussion on concurrent measurement gaps Samsung Research America discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212446](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212446.zip) Discussion on RRC corrections Samsung Research America discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212661](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212661.zip) Extend the neighbour cells number for propagation delay difference reporting CATT CR Rel-17 38.331 17.2.0 3721 - F NR\_NTN\_solutions-Core

[R2-2212662](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212662.zip) Discussion on leftover issues CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212692](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212692.zip) NTN Configuration at Handover and CHO Sequans Communications discussion Rel-17 38.331 NR\_NTN\_solutions-Core R2-2210729

[R2-2212804](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212804.zip) Correction on coarse UE location reporting for TS 38.300 Xiaomi, CAICT CR Rel-17 38.300 17.2.0 0594 - F NR\_NTN\_solutions-Core

[R2-2212805](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212805.zip) Correction on the action upon not being able to acquire SIB19 for NR NTN Xiaomi, CAICT CR Rel-17 38.331 17.2.0 3737 - F NR\_NTN\_solutions-Core

[R2-2212833](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212833.zip) Corrections on epochTime Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3738 - F NR\_NTN\_solutions-Core

[R2-2212834](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212834.zip) CR to 38.331 on neighbour cell ephemeris Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3739 - F NR\_NTN\_solutions-Core

[R2-2212895](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212895.zip) Corrections to the SMTC Field Description in System Information Google Inc. CR Rel-17 38.331 17.2.0 3555 1 F NR\_NTN\_solutions-Core R2-2210646

[R2-2212947](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212947.zip) Discussion on epoch time, validity and T430 start/end description Ericsson discussion Rel-17 NR\_NTN\_solutions

## 6.11 NR positioning enhancements

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

Tdoc Limitation: 4 tdocs

### 6.11.0 In-principle agreed CRs

CRs AIP from RAN2#119bis-e.

[R2-2211255](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211255.zip) Correction to MAC spec for Positioning enhancement Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1408 2 F NR\_pos\_enh-Core R2-2210894

[R2-2211256](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211256.zip) Correction to UE capability for DL-AoD Huawei, HiSilicon CR Rel-17 37.355 17.2.0 0379 2 F NR\_pos\_enh-Core R2-2210975

[R2-2212232](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212232.zip) Various LPP Corrections Qualcomm Incorporated (Rapporteur) CR Rel-17 37.355 17.2.0 0386 1 F NR\_pos\_enh-Core R2-2210904

R2-2212363 Correcting PRS capability information reported to gNB Ericsson, Nokia, Nokia Shanghai Bell, Lenovo CR Rel-17 38.306 17.2.0 0836 - F NR\_pos\_enh-Core Withdrawn

R2-2212364 Miscellaneous correction for Positioning Ericsson CR Rel-17 38.331 17.2.0 3690 - F NR\_pos\_enh-Core Withdrawn

[R2-2212482](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212482.zip) Correcting PRS capability information reported to gNB Ericsson, Nokia, Nokia Shanghai Bell, Lenovo CR Rel-17 38.306 17.2.0 0815 2 F NR\_pos\_enh-Core R2-2210907

[R2-2212484](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212484.zip) Miscellaneous correction for Positioning Ericsson CR Rel-17 38.331 17.2.0 3534 4 F NR\_pos\_enh-Core R2-2210983

### 6.11.1 General and stage 2 corrections

Incoming LSs, etc., and any stage 2 corrections (impact to 36.305 or 38.305). Stage 2 corrections without functional impact will be treated at lower priority or not at all.

[R2-2211137](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211137.zip) LS on GNSS integrity requirement provisioning (S2-2209966; contact: Huawei) SA2 LS in Rel-17 5G\_eLCS\_ph2 To:RAN2 Cc:SA1

[R2-2211143](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211143.zip) Reply LS on support of positioning in FR2-2 (R1-2210528; contact: Samsung) RAN1 LS in Rel-17 NR\_pos\_enh, NR\_ext\_to\_71GHz To:RAN2 Cc:RAN4

[R2-2211422](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211422.zip) Discussion on the LS on GNSS integrity requirement provisioning CATT discussion Rel-17 NR\_pos\_enh-Core

[R2-2211424](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211424.zip) Corrections on TS38.305 CATT CR Rel-17 38.305 17.2.0 0111 - F NR\_pos\_enh-Core

[R2-2211837](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211837.zip) Draft reply LS on GNSS integrity requirement provision OPPO LS out Rel-17 NR\_pos\_enh-Core To:SA2 Cc:SA1

[R2-2212233](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212233.zip) GNSS Integrity Requirement Provisioning Qualcomm Incorporated discussion

[R2-2212356](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212356.zip) Miscelenous corrections for stage2 Ericsson CR Rel-17 38.305 17.2.0 0112 - F NR\_pos\_enh-Core

[R2-2212686](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212686.zip) Discussion on gNB's support of UL MAC CE for pre-configured MG ZTE Corporation discussion Rel-17 NR\_pos\_enh-Core

[R2-2212687](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212687.zip) Correction on the gNB's behaviour for pre-configured MG ZTE Corporation CR Rel-17 38.305 17.2.0 0115 - F NR\_pos\_enh-Core

[R2-2212688](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212688.zip) Correction on assistance data instances in 38.305 ZTE Corporation CR Rel-17 38.305 17.2.0 0116 - F NR\_pos\_enh-Core

[R2-2212922](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212922.zip) Draft Reply LS on GNSS integrity requirement provisioning vivo LS out Rel-17 NR\_pos\_enh-Core To:SA2 Cc:SA1

[R2-2212929](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212929.zip) CR for miscellaneous corrections vivo draftCR Rel-17 38.305 17.2.0 F NR\_pos\_enh-Core

### 6.11.2 RRC corrections

Corrections to 38.331, except for UE capability issues which are handled under the UE capability agenda item.

[R2-2211261](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211261.zip) Correction to pre-configured MG request Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3574 - F NR\_pos\_enh-Core

[R2-2211423](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211423.zip) Corrections on derivation of pathloss reference for TA validation of SRS CATT CR Rel-17 38.331 17.2.0 3597 - F NR\_pos\_enh-Core

[R2-2211543](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211543.zip) Miscellaneous corrections to NR positioning enhancements Lenovo CR Rel-17 38.331 17.2.0 3612 - F NR\_pos\_enh-Core

[R2-2212073](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212073.zip) Discussion on the preconfigured MG activation and deactivation request Xiaomi discussion

[R2-2212355](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212355.zip) Discussion on NW configuration for UL MAC CE Ericsson discussion Rel-17 NR\_pos\_enh-Core

[R2-2212365](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212365.zip) Miscellaneous correction for Positioning Ericsson CR Rel-17 38.331 17.2.0 3691 - F NR\_pos\_enh-Core

### 6.11.3 LPP corrections

Corrections to 37.355.

[R2-2211259](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211259.zip) Remaining issues on PRS validity area Huawei, HiSilicon discussion Rel-17 37.355 NR\_pos\_enh-Core

[R2-2211262](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211262.zip) Correction to UE capability for UE-based positioning Huawei, HiSilicon CR Rel-17 37.355 17.2.0 0387 - F NR\_pos\_enh-Core

[R2-2211544](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211544.zip) Miscellaneous corrections to LPP capabilities Lenovo CR Rel-17 37.355 17.2.0 0390 - F NR\_pos\_enh-Core

[R2-2212234](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212234.zip) Correction to DL-PRS Processing Capability outside MG Qualcomm Incorporated draftCR Rel-17 37.355 17.2.0 F NR\_pos\_enh-Core

[R2-2212892](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212892.zip) Integrity measurements definition and missing integrity requirements Ericsson discussion Rel-17

### 6.11.4 MAC corrections

Corrections to 38.321.

[R2-2211260](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211260.zip) Correction to MAC spec for pre-configured MG request Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1450 - F NR\_pos\_enh-Core

[R2-2211545](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211545.zip) Discussion on the configuration of PPWs Lenovo discussion Rel-17 NR\_pos\_enh-Core

[R2-2212357](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212357.zip) Positioning Measurement Gap Activation/Deactivation Request MAC CE based upon Network Configuration Ericsson CR Rel-17 38.321 17.2.0 1489 - F NR\_pos\_enh-Core

### 6.11.5 UE capabilities

Including impact to 38.306 and any UE-capability-specific impact to 38.331.

[R2-2211546](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211546.zip) Corrections to PRS processing window capability descriptions Lenovo draftCR Rel-17 38.306 17.2.0 F NR\_pos\_enh-Core

[R2-2212646](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212646.zip) Clarification on the support of DL-PRS reception with 480/960 kHz SCS in FR2-2 Samsung draftCR Rel-17 38.306 17.2.0 NR\_pos\_enh-Core

## 6.12 Reduced Capability

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

Tdoc Limitation: 4 tdocs

### 6.12.1 General and Stage 2 corrections

LSs, rapporteur inputs and Stage 2 corrections. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

[R2-2211115](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211115.zip) Reply LS on configuring margin for 1 Rx RedCap Ues (R4-2214484; contact: Ericsson) RAN4 LS in Rel-17 NR\_redcap-Core To:RAN2

[R2-2211116](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211116.zip) Reply LS on RRM relaxation for Redcap (R4-2214487; contact: vivo) RAN4 LS in Rel-17 NR\_redcap-Core To:RAN2

[R2-2211331](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211331.zip) Discussion on configuring margin for 1 Rx RedCap UEs OPPO discussion Rel-17 NR\_redcap-Core

[R2-2211332](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211332.zip) Draft reply LS on configuring margin for 1 Rx RedCap UEs OPPO LS out Rel-17 NR\_redcap-Core To:RAN4

[R2-2211479](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211479.zip) Correction on TS 38.300 for RedCap vivo CR Rel-17 38.300 17.2.0 0576 - F NR\_redcap-Core Late

[R2-2212378](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212378.zip) Correction on applicability of NCD-SSB in Stage-2 Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0586 - F NR\_redcap-Core

[R2-2212379](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212379.zip) Miscellaneous RedCap corrections in stage-2 Nokia (Rapporteur), Huawei CR Rel-17 38.300 17.2.0 0587 - F NR\_redcap-Core

[R2-2212750](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212750.zip) Miscellaneous corrections for RedCap WI Ericsson CR Rel-17 38.331 17.2.0 3732 - F NR\_redcap-Core

[R2-2212751](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212751.zip) Miscellaneous corrections for RedCap WI Ericsson CR Rel-17 38.304 17.2.0 0313 - F NR\_redcap-Core Late

### 6.12.2 CP corrections

[R2-2211333](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211333.zip) Clarification on UE support of eDRX OPPO CR Rel-17 38.306 17.2.0 0827 - F NR\_redcap-Core

[R2-2211430](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211430.zip) Correction on the searchSpaceOtherSystemInformation for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3598 - F NR\_redcap-Core

[R2-2211431](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211431.zip) Corrections on RSRP offset of 1Rx RedCap UEs Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3599 - B NR\_redcap-Core

[R2-2211432](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211432.zip) Corrections on applying parameters in MIB and IFRI handling for RedCap UEs Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3600 - F NR\_redcap-Core

[R2-2211480](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211480.zip) Correction on RRC aspects for RedCap vivo, Guangdong Genius CR Rel-17 38.331 17.2.0 3603 - F NR\_redcap-Core

R2-2211481 Correction on RACH configure for RedCap vivo, Guangdong Genius CR Rel-17 38.331 17.2.0 3604 - F NR\_redcap-Core Late

[R2-2211482](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211482.zip) Correction on the description of PTW\_start for eDRX vivo, Guangdong Genius CR Rel-17 38.304 17.2.0 0299 - F NR\_redcap-Core

[R2-2211582](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211582.zip) Corrections on e-DRX for RedCap WI -TS 38.304 Xiaomi Communications CR Rel-17 38.304 17.2.0 0300 - F NR\_redcap-Core

[R2-2211706](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211706.zip) Clarification on the reference SSB used for measurement for RedCap when used with s-MeasureConfig Apple CR Rel-17 38.331 17.2.0 3634 - F NR\_redcap-Core

[R2-2211903](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211903.zip) Correction on RRC configuration for RedCap ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3658 - F NR\_redcap-Core

[R2-2211904](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211904.zip) Correction on PDCCH-ConfigCommon for RedCap ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3659 - F NR\_redcap-Core

[R2-2211905](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211905.zip) Correction on iPo determination for UE operates with eDRX ZTE Corporation, Sanechips CR Rel-17 38.304 17.2.0 0301 - F NR\_redcap-Core

[R2-2212380](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212380.zip) Correction on halfDuplexRedCap-Allowed in 38.304 Nokia, Nokia Shanghai Bell CR Rel-17 38.304 17.2.0 0306 - F NR\_redcap-Core

[R2-2212381](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212381.zip) Correction on margin for 1 Rx RedCap devices in 38.331 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3696 - F NR\_redcap-Core

[R2-2212543](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212543.zip) Miscellaneous corrections for RedCap WI Futurewei, vivo, Xiaomi, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, ZTE Corporation CR Rel-17 38.304 17.2.0 0309 - F NR\_redcap-Core

[R2-2212663](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212663.zip) Correction on the filed descriptions of NeedForGaps in 38.331 CATT CR Rel-17 38.331 17.2.0 3722 - F NR\_redcap-Core

[R2-2212752](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212752.zip) Configuration of margin for 1Rx RedCap UEs Ericsson discussion Rel-17 NR\_redcap-Core

[R2-2212753](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212753.zip) Configuration of margin for 1 Rx RedCap UEs Ericsson CR Rel-17 38.331 17.2.0 3733 - F NR\_redcap-Core

[R2-2212768](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212768.zip) Configuration of margin for 1 Rx RedCap UEs Ericsson CR Rel-17 38.321 17.2.0 1495 - F NR\_redcap-Core

[R2-2212769](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212769.zip) Configuration of margin for 1 Rx RedCap UEs Ericsson CR Rel-17 38.304 17.2.0 0314 - F NR\_redcap-Core

R2-2212859 Correction on RACH configure for RedCap vivo, Guangdong Genius CR Rel-17 38.304 17.2.0 0316 - F NR\_redcap-Core Late

[R2-2212912](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212912.zip) Correction on RACH configure for RedCap vivo, Guangdong Genius CR Rel-17 38.300 17.2.0 0597 - F NR\_redcap-Core

### 6.12.3 UP corrections

[R2-2211483](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211483.zip) Miscellaneous CR on TS 38.321 for RedCap vivo CR Rel-17 38.321 17.2.0 1461 - F NR\_redcap-Core

[R2-2211906](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211906.zip) Correction on DL BWP in RACH procdure ZTE Corporation, Sanechips CR Rel-17 38.321 17.2.0 1475 - F NR\_redcap-Core

R2-2212071 Mismatch issue on RAR reception on RedCap specific initial DL BWP Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core Withdrawn

[R2-2212095](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212095.zip) Mismatch issue on RAR reception on RedCap specific initial DL BWP Huawei, HiSilicon, vivo discussion Rel-17 NR\_redcap-Core

## 6.13 SON MDT

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

Tdoc Limitation: 2 tdocs

### 6.13.1 Organizational and Stage-2

LS in etc. CR Rapporteurs to provide input CRs, and Provide resolution proposals for smaller and editorial corrections. For Editorial corrections please discuss with CR Rapporteur. Stage-2 corrections and system level discussions, if needed

[R2-2211109](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211109.zip) LS on M6 Delay Threshold (R3-224079; contact: CATT) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:SA5 Cc:RAN2

[R2-2211111](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211111.zip) Reply LS on the user consent for trace reporting (R3-225250; contact: Nokia) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:SA3 Cc:RAN2, SA5, SA1, RAN

[R2-2211122](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211122.zip) LS on Reply LS on beam measurement reports (S5-223524; contact: Ericsson) SA5 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:RAN3, RAN2

[R2-2211124](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211124.zip) Reply LS on beam measurement reports (R3-225273; contact: Ericsson) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:SA5 Cc:RAN2

[R2-2212455](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212455.zip) Correction to Logged MDT Type handling Nokia, Nokia Shanghai Bell CR Rel-17 37.320 17.1.0 0121 - F NR\_ENDC\_SON\_MDT\_enh-Core Late

### 6.13.3 SON Corrections

[R2-2211350](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211350.zip) Clarification on the Scenarios of PSCell Information Storing for MHI CATT CR Rel-17 38.331 17.2.0 3586 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2211351](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211351.zip) Clarification on Radio Link Failure Information Logging and RA Information Determination CATT CR Rel-17 38.331 17.2.0 3587 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2211726](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211726.zip) Correction on spCellID in RA-Report for SCell RA in SCG Apple CR Rel-17 38.331 17.2.0 3636 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212084](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212084.zip) On including SSB and CSI-RS measurements in SHR Ericsson discussion Rel-17 38.331 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212215](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212215.zip) Discussion on the reporting of the CEF report list Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212454](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212454.zip) Correction to PSCell MHI Capability Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.2.0 0839 - F NR\_ENDC\_SON\_MDT\_enh-Core Late

[R2-2212734](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212734.zip) Discussion on PSCell MHI recording Sharp discussion

### 6.13.4 MDT Corrections

[R2-2211429](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211429.zip) Correction on multiple CEF report Samsung Electronics Co., Ltd draftCR Rel-17 38.331 17.2.0 F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212083](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212083.zip) Total RAN Delay calculation Ericsson discussion Rel-17 38.314 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212216](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212216.zip) Discussion on capturing L2M agreements in TS 38.314 Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

## 6.14 NR QoE

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

Tdoc Limitation: 1 tdoc

Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications etc - please contact the Rapporteur before providing contributions on those aspects.

Including disucssion on SA4 LS R2-2209362

[R2-2211121](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211121.zip) Reply LS on questions on RAN visible QoE (S4-221129; contact: Huawei) SA4 LS in Rel-17 NR\_QoE-Core To:RAN2, RAN3

[R2-2211165](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211165.zip) Reply LS on questions on RAN visible QoE (R3-226061; contact: Huawei) RAN3 LS in Rel-17 NR\_QoE-Core To:RAN2, SA4

[R2-2211547](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211547.zip) Discussion on remaining issues for NR QoE Lenovo discussion Rel-17 NR\_QoE-Core

[R2-2211712](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211712.zip) Clarification of UE Behaviour upon Pause of QoE Reporting Apple, Ericsson, MediaTek, Huawei, HiSilicon CR Rel-17 38.300 17.2.0 0579 - F NR\_QoE-Core

[R2-2212217](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212217.zip) Correction to the combination of NR-U and QoE configuration Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3685 - F NR\_QoE-Core

[R2-2212218](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212218.zip) Discussion on buffer level measurements based on SA4 and RAN3 reply LSes Huawei, HiSilicon discussion Rel-17 NR\_QoE-Core

[R2-2212463](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212463.zip) Correction CR for QoE measurements Ericsson CR Rel-17 38.331 17.2.0 3703 - F NR\_QoE-Core

[R2-2212464](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212464.zip) Discussion on reply LS on RAN visible QoE Ericsson discussion Rel-17 NR\_QoE-Core

## 6.15 NR Sidelink enhancements

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

Tdoc Limitation: 3 tdocs

Note some agenda item(s) may use pre-meeting discussion based on a summary document.

### 6.15.0 In-principle agreed CRs

CRs AIP from RAN2#119bis-e.

[R2-2211634](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211634.zip) Correction on SL DRX Offset Calculation InterDigital, ASUSTek CR Rel-17 38.321 17.2.0 1428 1 F NR\_SL\_enh-Core R2-2210261

[R2-2211644](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211644.zip) 38.321 corrections for SL enhancement LG Electronics France CR Rel-17 38.321 17.2.0 1445 1 F NR\_SL\_enh-Core R2-2210932

[R2-2211892](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211892.zip) Rapporteur CR on TS 38.331 for SL enhancements Huawei, HiSilicon (Rapporteur) CR Rel-17 38.331 17.2.0 3541 2 F NR\_SL\_enh-Core R2-2210930

### 6.15.1 Organizational

Including incoming LSs, rapporteur inputs, stage 2 corrections, etc.

[R2-2211126](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211126.zip) Reply LS on Tx profile (C1-226055; contact: OPPO) CT1 LS in Rel-17 eV2XARC\_Ph2, 5G\_ProSe, NR\_SL\_enh-Core To:RAN2

[R2-2211141](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211141.zip) Reply LS to RAN2 on Per-FS L1 feature for NR sidelink discovery BC-list (R1-2210492; contact: OPPO) RAN1 LS in Rel-17 NR\_SL\_enh-Core, NR\_SL\_relay-Core To:RAN2

[R2-2211146](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211146.zip) Reply LS to RAN2 on IUC with Non-preferred Resource Set (R1-2210582; contact: Apple) RAN1 LS in Rel-17 NR\_SL\_enh-Core To:RAN2

[R2-2211155](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211155.zip) LS on PDCCH repetition for sidelink (R1-2210735; contact: LGE) RAN1 LS in Rel-17 NR\_SL\_enh-Core To:RAN2

[R2-2211212](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211212.zip) Discussion on R1-2210492 OPPO discussion Rel-17 NR\_SL\_enh-Core, NR\_SL\_relay\_enh-Core

[R2-2211213](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211213.zip) Correction for NR SL discovery capability OPPO, Intel CR Rel-17 38.306 17.2.0 0824 - F NR\_SL\_enh-Core, NR\_SL\_relay\_enh-Core

[R2-2211214](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211214.zip) Correction for NR SL discovery capability OPPO, Intel CR Rel-17 38.331 17.2.0 3571 - F NR\_SL\_enh-Core, NR\_SL\_relay\_enh-Core

[R2-2211215](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211215.zip) Discussion on left issues on Tx Profile OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2211216](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211216.zip) Correction for Tx Profile OPPO CR Rel-17 38.331 17.2.0 3572 - F NR\_SL\_enh-Core

[R2-2211565](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211565.zip) Clarification on the condition to use SL DRX Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core

[R2-2211622](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211622.zip) Corrections on TS38.300 for Rel-17 sidelink enhancements CATT CR Rel-17 38.300 17.2.0 0578 - F NR\_SL\_enh-Core

[R2-2211693](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211693.zip) Discussion on RAN1 Reply LS on IUC with non-preferred resource Apple discussion NR\_SL\_enh-Core

[R2-2212717](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212717.zip) Miscellaneous corrections to SL DRX vivo CR Rel-17 38.300 17.2.0 0590 - F NR\_SL\_enh-Core

### 6.15.2 Control plane corrections

[R2-2211217](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211217.zip) Discussion on left issues on control plane procedure OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2211501](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211501.zip) Corrections to 38.331 on IUC parameters Ericsson CR Rel-17 38.331 17.2.0 3605 - F NR\_SL\_enh-Core

[R2-2211623](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211623.zip) Further Discussion on Tx Profile CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2211624](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211624.zip) Correction on PDCCH repetition CATT CR Rel-17 38.331 17.2.0 3622 - F NR\_SL\_enh-Core

[R2-2211635](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211635.zip) Revised Summary of [Post119-e][512][V2X/SL] Remaining Corrections (InterDigital) InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2211636](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211636.zip) Correction on LCID Assignment for SL LCH InterDigital, ASUSTek CR Rel-16 38.331 16.10.0 3531 1 F NR\_SL\_enh-Core R2-2210259

[R2-2211637](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211637.zip) Correction on LCID Assignment for SL LCH InterDigital, ASUSTek CR Rel-17 38.331 17.2.0 3532 1 A NR\_SL\_enh-Core R2-2210260

[R2-2211852](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211852.zip) Correction on SUI initiation and PDCCH repetition ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3650 - F NR\_SL\_enh-Core

[R2-2211871](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211871.zip) Correction on 38.331 Xiaomi CR Rel-17 38.331 17.2.0 3652 - F NR\_SL\_enh-Core

[R2-2211893](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211893.zip) Miscellaneous corrections on TS 38.331 for SL enhancements Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3656 - F NR\_SL\_enh-Core

[R2-2212439](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212439.zip) Remaining discussion on control plane Samsung Research America discussion Rel-17 NR\_SL\_enh-Core

[R2-2212716](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212716.zip) Miscellaneous RRC corrections for SL enhancement vivo CR Rel-17 38.331 17.2.0 3725 - F NR\_SL\_enh-Core

### 6.15.3 User plane corrections

[R2-2211238](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211238.zip) Discussion on left issues on user plane procedure OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2211239](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211239.zip) Miscellaneous corrections on TS 38.321 for SL enhancements OPPO CR Rel-17 38.321 17.2.0 1448 - F NR\_SL\_enh-Core

[R2-2211500](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211500.zip) discussion on RAN1 LS R1-2210582 Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2211502](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211502.zip) Corrections to 38.321 on IUC trigger Ericsson CR Rel-17 38.321 17.2.0 1462 - F NR\_SL\_enh-Core

[R2-2211566](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211566.zip) Clarification on PSFCH reception when SL DRX is configured Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core

[R2-2211567](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211567.zip) Correction on SL DRX when IUC is configured Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core

[R2-2211638](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211638.zip) Discussion on resource (re-)selection for SL DRX SHARP Corporation discussion

[R2-2211639](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211639.zip) Correction on resource (re-)selection for SL DRX SHARP Corporation CR Rel-17 38.321 17.2.0 1466 - F NR\_SL\_enh-Core

[R2-2211646](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211646.zip) User plane corrections on NR Sidelink enhancements LG Electronics France CR Rel-17 38.321 17.2.0 1467 - F NR\_SL\_enh-Core Late

[R2-2211694](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211694.zip) Correction on the handling of IUC with non-preferred resource set Apple CR Rel-17 38.321 17.2.0 1469 - F NR\_SL\_enh-Core

[R2-2211808](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211808.zip) Corrections on SL enhancements for IUC ASUSTeK CR Rel-17 38.321 17.2.0 1472 - F NR\_SL\_enh-Core

[R2-2211809](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211809.zip) Discussion on priority setting for IUC MAC CEs ASUSTeK, vivo discussion Rel-17 38.321 NR\_SL\_enh-Core

R2-2211853 Discussion on enabling of scheme1 on MAC ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core Withdrawn

[R2-2211854](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211854.zip) Correction on HARQ entity procedure ZTE Corporation, Sanechips CR Rel-17 38.321 17.2.0 1473 - F NR\_SL\_enh-Core

[R2-2211947](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211947.zip) Miscellaneous corrections on TS 38.321 for NR sidelink Xiaomi CR Rel-17 38.321 17.2.0 1480 - F NR\_SL\_enh-Core

[R2-2211948](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211948.zip) Miscellaneous corrections on TS 38.300 for NR sidelink Xiaomi CR Rel-17 38.300 17.2.0 0583 - F NR\_SL\_enh-Core

[R2-2212400](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212400.zip) On resource exclusion for random resource selection Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core

[R2-2212401](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212401.zip) CBR measurement availability for full sensing Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core

[R2-2212402](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212402.zip) Indication to lower layers for IUC information reporting Nokia, Nokia Shanghai Bell draftCR Rel-17 38.321 17.2.0 F NR\_SL\_enh-Core

[R2-2212440](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212440.zip) Default CBR parameters Samsung Research America discussion Rel-17 NR\_SL\_enh-Core

[R2-2212441](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212441.zip) IUC with non-preferred resource set Samsung Research America discussion Rel-17 NR\_SL\_enh-Core

[R2-2212693](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212693.zip) Discussion on remaining issues Qualcomm India Pvt Ltd discussion

[R2-2212718](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212718.zip) Correction on priority setting for IUC MAC CE vivo, Apple, ASUSTeK CR Rel-17 38.321 17.2.0 1494 - F NR\_SL\_enh-Core

[R2-2212923](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212923.zip) Discussion on enabling of scheme1 on MAC ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

## 6.16 NR Non-Public Network enhancements

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

Tdoc Limitation: 1

[R2-2212490](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212490.zip) Changing the Need Code for gins-PerSNPN-List Ericsson discussion Rel-17 NG\_RAN\_PRN\_enh-Core

* Some confusion, chair think that possibly in principle there could/should be a modification, but seems that the likelihood of misunderstanding is small

- Can allow some time to check

CB

- Ericsson reports that after offline it was concluded that this change of need code can be merged with the RRC TS Rapporteur CR.

- Samsung think that a need code change also would involve a consistency update of the FD.

* Change of need code is agreed, and to be merged with TS rapporteur CR. Discuss potential consistency update of FD in the post discussion for the TS Rapporteur CR

## 6.17 NR feMIMO

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

Tdoc Limitation: 2 tdocs

### 6.17.0 In-Principle Agreed CRs

[R2-2212598](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212598.zip) Miscellaneous MAC Corrections on feMIMO Samsung CR Rel-17 38.321 17.2.0 1418 2 F NR\_FeMIMO-Core R2-2211007

* Samsung indicate no further change, expect update this meeting

[R2-2213285](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213285.zip) Miscellaneous MAC Corrections on feMIMO Samsung CR Rel-17 38.321 17.2.0 1418 3 F NR\_FeMIMO-Core

- Samsung explains that all changes except CR from Xiaomi is included.

* [Post120][056][feMIMO] MAC Correction CR (Samsung)

Scope: Based on R2-2213285 (which includes all changes agreed before Friday), include additional scope from R2-2211984

Intended outcome: agreed CR

Deadline: Short

[R2-2212781](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212781.zip) Corrections for Release-17 feMIMO Ericsson CR Rel-17 38.331 17.2.0 3569 2 F NR\_FeMIMO-Core R2-2211027

- Ericsson indicate no further change, expect update this meeting

* [Post120][055][feMIMO] RRC connection CR (Ericsson)

Scope: Capture the outcome of this meeting

Intended outcome: Agreed CR

Deadline: Short

### 6.17.1 RRC centric Corrections

Including corrections to other CP TSes, and Stage-2 corrections, if any.

[R2-2213333](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213333.zip) LS on feMIMO RRC parameters (R1-2212925; contact: Ericsson) RAN1 LS in Rel-17 NR\_feMIMO-Core To:RAN2

* noted

[R2-2212794](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212794.zip) Misc clarifications for feMIMO RRC Ericsson discussion Rel-17 NR\_FeMIMO-Core

* P3 RAN2 to clarify the field description of csi-SSB-ResourceSetList, csi-SSB-ResourceSetListExt that csi-SSB-ResourceSetListExt can be configured only when if csi-SSB-ResourceSetList is included and groupBasedBeamReporting-v1710 is configured.
* P4 RAN2 to add in field description of reportQuantity in IE CSI-ReportConfig that If the field reportQuantity-r17 is present, UE shall ignore reportQuantity-r16 and reportQuantity (without suffix).

Offline 25 discuss offline how to cover P2, (and other RRC related issues) (Ericsson)

[R2-2212994](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212994.zip) Report of [offline-025] [feMIMO] RRC corrections (Ericsson) Ericsson discussion Rel-17 NR\_FeMIMO-Core

* P1 is agreed
* Whether the intra-band restriction is captured in RRC and where is postponed. (It is specified in TS 38.214. If in RRC, maybe in IE servingcellConfig for field unifiedTCIStateType.)
* P3: Rephrase the first change (and the other similar changes) to: If unifiedTCI-StateType is configured for the serving cell, no element in this list is configured
* Change “TCI state is applied” to “TCI state is applied by the UE”.

P5 Discussion

- ZTE wonder what is the same kind. HW think this just means that PC is either in UL TCI state or in BWP, not in both, and to make this work it need to be applied in all ref cells.

* For unified TCI state, agree to limit the power control configuration to be the same kind (pc in UL TCI state or in BWP) in all cells that use any cross referencing.

P6 DISCUSSION

- ZTE think there this may be the cell where the TCI state is applied. Ericsson agrees.

* FFS whether powercontrol parameters as well as pathlossreferenceRS follow the same reference cell as additionalPCI in TCI State and UL TCI State IE

P7 DISCUSSION

- HW wonder if we need a capability. Nokia think it is sufficient to add the mandatory text on the coversheet.

* P7 is agreed, add “mandatory”-text on the cover sheet for this feature

P8 DISCUSSION

- OPPO think it is clear in R1 spec that only 4 is supported, so no need to capture in R2 TS. Samsung agrees with OPPO, think this is since Rel16, but would also be ok to capture in 306

- Ericsson explains that 306 CRs were proposed in this meeting by Nokia

- Nokia think this is very hidden when in R1 TS.

- LG think it is stated in R1 that UE is not supposed to support .. so would be ok to clarify in R2 TS.

- HW point out that this is for R16. Nokia ok to have CR for earlier release.

* P8: no agreement in this meeting (can CB at later meeting if found needed).

[R2-2211152](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211152.zip) Reply LS on active TCI state list for UL TCI (R1-2210719; contact: Nokia) RAN1 LS in Rel-17 NR\_FeMIMO-Core To:RAN4 Cc:RAN2

* Noted

[R2-2211362](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211362.zip) PL-RS for TCI states with UL Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_FeMIMO-Core

* ZTE think this may cause ambiguity, as it doesn’t allow UE to support different number of PL-RS, suggest At LEAST
* CATT support capture in UE cap, but think that we anyway need to capture in RRC and MAC.
* LG think this is per CC, not or per UE, should be made clear.
* Intel think UE support up to 4, not more than 4, and think these are for activated TCI states, not for configuration.
* Ericsson think R1 should reply.
* HW think it is enough to capture in 306.
* ChairL think there is good agreement but companies has not had time to think about how to reflect this. This anyway doesn’t impact protocols.
* Postponed.

[R2-2212398](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212398.zip) FeMIMO RRC discussion and corrections Huawei, HiSilicon discussion Rel-17 NR\_FeMIMO-Core

DISCUSSION

* P1235 Nokia ericsson agrees
* P1: Add value “n3” for *repetitionFactor-r17*.
* P2: Add a new UE capability to indicate support of the value “n3” for *repetitionFactor-r17*.
* P3: Capture in the field description of *resourceMapping* that when *resourceMapping-r17* is signalled, *resourceMapping-r16* is not signalled.
* P5: For all fields and IEs introduced in Rel-17, change "TCIstate" or "TCIState" to "TCI-State", to follow the naming advice in TS 38.331 (and align with Rel-15 "TCI-State")

[R2-2212178](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212178.zip) Correction on TS 38.331 for pathloss RS on unified TCI framework Spreadtrum Communications CR Rel-17 38.331 17.2.0 3681 - F NR\_FeMIMO-Core

* Changes are agreed, merged with the WI RRC CR.

[R2-2211983](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211983.zip) Correction on the unified TCI-state configuration for 38.331 Xiaomi CR Rel-17 38.331 17.2.0 3664 - F NR\_FeMIMO-Core

Ericsson would prefer to relate condition to R16 fields,

* Agreeable to make such restrictions / conditions more clear, can discuss where / how to capture. (add to offline 24)

[R2-2212547](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212547.zip) Clarification on 38.331 for feMIMO RRC ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3708 - F NR\_FeMIMO-Core

- Ericsson think the 1st change is already in the IPA CR.

- 2nd change Nokia think that removing the “only” gives the wrong impression

* 3rd change agreed, merged in the WI CR, 2nd change discussed in offline 24

### 6.17.2 MAC centric Corrections

[R2-2212877](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212877.zip) Clarification on BFD-RS set based BFR Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0596 - F NR\_FeMIMO-Core

* Samsung wonder if we really can generalize. Nokia think BFD-RS set can cover multiple TRPs.
* Intel agrees with the intention.
* QC would like to check the Nokia explanation, wonder about the word concurrent.
* LGe would also like to check

CB (for time to check)

- LG has checked, and think that TRP is a suitable wording. CR is not agreeable. Samsung agrees with LG.

- OPPO has also checked, support Nokia. ZTE support.

- Nokia and Ericsson think TRP is never used in specifications.

- Intel think the change is ok, but cover sheet need to be updated.

- LG can accept if cover sheet is updated

* Contents is agreeable, need Cover sheet update.

Offline 045 on revised CR (Nokia)

[R2-2213348](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213348.zip) Clarification on BFD-RS set based BFR Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0596 1 F NR\_FeMIMO-Core

* agreed

[R2-2211984](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211984.zip) Correction on the unified TCI-state configuration for 38.321 Xiaomi CR Rel-17 38.321 17.2.0 1481 - F NR\_FeMIMO-Core

* HW think this is not applicable to R17 unified tci state.
* 1st ch: ZTE think this may be applicable. CATT agrees
* CATT think 2nd change is not needed
* Intel agrees with CATT.
* Samsung agrees with HW that we don’t need to update legacy MAC CE for unified TCI state.
* Intel think we might need to double check R1 TS.

CB (for time to check)

- ZTE think we can fix this in RRC instead. Ericsson point out that for CORESET config we added the names explicitly. Ericsson think that if we want to make this explicit in MAC then in any case only for the first MAC CE

- Intel has the same understanding as Ericsson and ZTE. SS agrees but think that for the first MAC CE a clarification is needed.

- ZTE checked again, and think also the first change is not needed.

- Chai: no support for the 2nd change.

* Whether to capture the change to the first MAC CE is FFS (or a variant thereof), include in MAC post meeting disc

[R2-2212548](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212548.zip) CR on 38.321 for BFR and unified TCI state ZTE Corporation, Sanechips CR Rel-17 38.321 17.2.0 1491 - F NR\_FeMIMO-Core

1st

* Intel ok

2nd

* Samsung think the UL and DL BWP IDs can be same.

3rd change

* SS think 3rd is ok
* Discuss 2nd change offline
* 1st and 3rd changes are agreed, merged with MAC CR.

[R2-2212675](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212675.zip) Corrections to TS 38.321 for feMIMO CATT CR Rel-17 38.321 17.2.0 1493 - F NR\_FeMIMO-Core

* 1st change agreed merged with MAC CR

offline 26 MAC CR general (Samsung)

[R2-2213284](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213284.zip) Summary of [AT120][026][feMIMO] UL BWP ID in unified TCI state Activation/Deactivation MAC CE (Samsung) Samsung discussion Rel-17 NR\_FeMIMO-Core

* Clarify that the UL BWP ID present in unified TCI state Activation/Deactivation MAC CE shall be considered as reserved bit when unified TCI state type is set to ‘joint’.

## 6.18 RACH indication and partitioning

Tdoc Limitation: 2 tdocs

Expected to cover WIs SDT, CovEnh, RedCap, RAN slicing. RA specific aspects from the different WI should be covered in this AI given the RA experts are all there.

### 6.18.1 Common signalling framework

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

[R2-2212196](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212196.zip) RRC corrections to common RACH framework Huawei, HiSilicon draftCR Rel-17 38.331 17.2.0 F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

[R2-2212417](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212417.zip) Correction of Cond AdditionalRACH-AndRedCap Ericsson CR Rel-17 38.331 17.2.0 3698 - F NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

### 6.18.2 Common aspects of RACH procedure

A single CR 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

[R2-2212197](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212197.zip) Clarification on RACH configuration on RedCap specific BWP Huawei, HiSilicon CR Rel-17 38.300 17.2.0 0585 - F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

[R2-2212878](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212878.zip) Correction for RACH partitioning features Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1501 - F NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

[R2-2212879](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212879.zip) Corrections on BWP handling for RACH partitioning Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1502 - F NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

## 6.19 Coverage Enhancements

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

Tdoc Limitation: 1 tdoc

Common aspects related to RACH indication (in MSG1) / RACH partitioning shall be submitted to 6.18

### 6.19.1 Organizational

Rapporteur input, incoming LS etc. CR Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications, etc - please contact the CR rapporteurs before providing contributions on those aspects.

[R2-2212676](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212676.zip) Clarifications on DMRS bundling for NR Coverage Enhancements Huawei, HiSilicon, China Telecom, ZTE Corporation CR Rel-17 38.331 17.2.0 3723 - F NR\_cov\_enh-Core

### 6.19.2 General

All aspects.

[R2-2211468](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211468.zip) Discussion on DMRS Ericsson discussion Rel-17 NR\_cov\_enh-Core

[R2-2212248](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212248.zip) Remaining Issues on DMRS Bundling vivo Mobile Com. (Chongqing) discussion Rel-17 NR\_cov\_enh-Core R2-2207130

[R2-2212880](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212880.zip) Correction on CE applicability to RA procedure Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1503 - F NR\_cov\_enh-Core

## 6.20 Extending NR operation to 71GHz

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

Tdoc Limitation: 1 tdoc

Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications etc - please contact the Rapporteur before providing contributions on those aspects.

### 6.20.0 In-Principle Agreed CRs

[R2-2211367](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211367.zip) CP corrections for NR operation to 71GHz ZTE Corporation (rapporteur) CR Rel-17 38.331 17.2.0 3499 2 F NR\_ext\_to\_71GHz-Core R2-2211055

### 6.20.1 Stage-2 and Stage-3 corrections

Including discussion on CCA for neighbour cell measurements in Rel-17 based on RAN4 LS R4-2217193

[R2-2211148](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211148.zip) Reply LS on TCI assumption for RSSI measurement for FR2-2 (R1-2210590; contact: Apple) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN4, RAN2

[R2-2211149](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211149.zip) LS to RAN2 on RRC parameter impact for multi-PDSCH scheduling (R1-2210591; contact: LGE) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN2

[R2-2211158](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211158.zip) Reply LS on CCA configurations of neighbour cells (R3-226000; contact: Huawei) RAN3 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN2 Cc:RAN4

[R2-2211170](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211170.zip) Reply LS on signalling of CCA configurations of neighbour cells (R4-2217193; contact: Nokia) RAN4 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN2 Cc:RAN1

[R2-2211358](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211358.zip) Correction on on channelAccessMode2 vivo Mobile Com. (Chongqing) CR Rel-17 38.331 17.2.0 3588 - F NR\_ext\_to\_71GHz-Core

[R2-2211505](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211505.zip) Rapporteur CR to 38.331 for 71 GHz Ericsson CR Rel-17 38.331 17.2.0 3606 - F NR\_ext\_to\_71GHz-Core

[R2-2211506](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211506.zip) Correction to 38.306 for 71 GHz Ericsson CR Rel-17 38.306 17.2.0 0830 - F NR\_ext\_to\_71GHz-Core

[R2-2211533](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211533.zip) CP corrections for NR operation to 71GHz ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3609 - F NR\_ext\_to\_71GHz-Core

R2-2211560 Miscellaneous corrections to RRC for Ext71GHz Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3617 - F NR\_ext\_to\_71GHz-Core Withdrawn

[R2-2211705](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211705.zip) Clarification on the TCI assumption for RSSI measurement for FR2-2 Apple CR Rel-17 38.331 17.2.0 3633 - F NR\_ext\_to\_71GHz-Core

[R2-2211941](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211941.zip) FR2-2 and CCA configuration Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3276 4 F NR\_ext\_to\_71GHz-Core R2-2209234

[R2-2211991](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211991.zip) Clarification on periodicityExt in SPS config NTT DOCOMO, INC. CR Rel-17 38.331 17.2.0 3665 - F NR\_ext\_to\_71GHz-Core

[R2-2212481](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212481.zip) Discussion on RRC issues for Ext71GHz Huawei, HiSilicon discussion Rel-17 NR\_ext\_to\_71GHz-Core

[R2-2212645](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212645.zip) Clarification on the reference serving cell for the TCI state Samsung draftCR Rel-17 38.331 17.2.0 NR\_ext\_to\_71GHz

[R2-2212757](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212757.zip) Correction on TCI assumption for RSSI measurement for FR2-2 LG Electronics Inc. CR Rel-17 38.331 17.2.0 3734 - F NR\_ext\_to\_71GHz-Core

## 6.21 TEI17

### 6.21.0 In-Principle Agreed CRs

[R2-2211745](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211745.zip) Introduction of capabilities for emergency service related fallback [CellSelection\_EmergencyFallback] Huawei, HiSilicon, Ericsson, China Unicom, CATT, CMCC, BT, Telecom Italia, China Telecom CR Rel-17 38.306 17.2.0 0822 2 C TEI17 R2-2211059

* agreed

[R2-2211746](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211746.zip) Correction on E-UTRA cell selection during emergency service fallback and EPS fallback for emergency call [CellSelection\_EmergencyFallback] Huawei, HiSilicon, Ericsson, China Unicom, CATT, CMCC, BT, Telecom Italia, China Telecom CR Rel-17 38.331 17.2.0 3548 3 C TEI17 R2-2211058

* agreed

### 6.21.1 TEI proposals

Including incoming LSes. 1. TEI proposals in progress, and 2. New proposal, which BOTH a) is 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 performacne enhancements please).

Per-FR Gap

[R2-2212388](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212388.zip) Capability for per-FR gaps Ericsson discussion

[R2-2211620](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211620.zip) Discussion on per-FR gap Intel Corporation discussion Rel-17 TEI17

[R2-2211363](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211363.zip) More granular per-FR gaps Nokia, Nokia Shanghai Bell discussion Rel-17 TEI17

[R2-2212526](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212526.zip) Higher granularity for per-FR gap capability discussion Qualcomm Incorporated discussion Rel-17 TEI17

* 4 tdocs noted

DISCUSSION on the documents above

Proposals on the table:

Max CC

- Per UE

- Per UE, but with 3 parameters FR1, FR2, FR1+FR2

- Per BC

Need for Gap approach

- general

- with FR1 FR2 differentiation

- with Max CC per UE capability to limit the cases when UE need to request NfG

DISCUSSION

- VDF wonder how per BC impact the fallback signalling. QC think there is a cost. HW think this is the reason why not support this.

- Intel think there is no issue for signalling overhead for any of these cases. We removed the case of high overhead last meeting.

- Ericsson think that NfG is complex as it is only reactive to current configuration, think that per BC has big overhead.

- vivo would like to have a general solution, think max CC is not sufficient. Think that if we do max CC we also need a continuaion.

- MTK think we need to choose simple options, UE cap signalling is simpler that NfG

- Samsung agrees with ericsson. Think NfG is too complex.

- ZTE think Max CC per UE is acceptable.

- HW wonder why FR1+FR2 would be needed

- HW think if we would use per Band as per FR differentiation is signalled like this. Ericsson think no.

* Per UE capability, Max CC for FR1, FR2, FR1+FR2

[R2-2212527](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212527.zip) Higher granularity for per-FR gap capability - Alt1.3b Qualcomm Incorporated CR Rel-17 38.306 17.2.0 0840 - C TEI17

[R2-2212528](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212528.zip) Higher granularity for per-FR gap capability - Alt1.3b Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3704 - C TEI17

- ZTE think the value range should start from 1. Ericsson think that if it starts with 1 then need to be optional.

- ZTE think that this impacts inter-node aspects, to exchange no of serving cells. QC didn’t see the issue for the serving cells. ZTE think the MN need to know the number of serving cells in the SN. Ericsson think the MN may limit what the MN can configure.

- HW wonder whether we shall have text on how to handle the old per FR gap. Need to be captured somehow. MTK has same comment as HW think the new and old caps must be mutually exclusive.

- OPPO wonder if this covers all architectures. QC and Apple think it can be for MRDC all cases, but in the CR only NRDC right now.

- Chair late comment: to my understanding the CR can be either {cat C, TEI17+NR15 WI, no TEI label}, or {cat B, TEI17, TEI label}

* Legacy independentgap shall not be indicated when the new capability is indicated

Short post meeting Email discussion for the CR update (for endorsed CRs for TSG RAN).

* [Post120][052][NR17] higher granularity per-FR gap capability (Qualcomm)

Scope: Based on R2-2212527, R2-2212528, Review and update if needed, for agreement. Include also determination whether inter-node signalling is needed, and if so update CRs to include inter-node signaling.

Intended outcome: Tech Endorsed 38.331 38.306 CRs (for TSG RAN)

Deadline: Short

Offline 042, check if inter-node signalling is needed (QC)

[R2-2212389](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212389.zip) Addition of per-FR gaps according to numbers of CCs Ericsson draftCR Rel-17 38.306 17.2.0 B TEI17

[R2-2212390](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212390.zip) Addition of per-FR gaps according to numbers of CCs Ericsson draftCR Rel-17 38.331 17.2.0 TEI17

[R2-2212373](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212373.zip) Introduction of NeedForGaps for per-FR gaps Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.2.0 0837 - B TEI17

[R2-2212374](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212374.zip) Introduction of NeedForGaps for per-FR gaps Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3695 - B TEI17

[R2-2212529](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212529.zip) Higher granularity for per-FR gap capability - Alt2 Qualcomm Incorporated CR Rel-17 38.306 17.2.0 0841 - C TEI17

[R2-2212530](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212530.zip) Higher granularity for per-FR gap capability - Alt2 Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3705 - C TEI17

[R2-2212680](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212680.zip) Discussion on per-BC granularity of per-FR gap capability MediaTek Inc. discussion R2-2210518

[R2-2212574](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212574.zip) Discussion on per-FR-gaps Huawei, HiSilicon discussion Rel-17 NR\_newRAT-Core

[R2-2212575](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212575.zip) CR on finer granularity indication for per-FR-gaps Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3715 - F NR\_newRAT-Core

[R2-2212576](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212576.zip) CR on finer granularity indication for per-FR-gaps Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0842 - F NR\_newRAT-Core

[R2-2211902](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211902.zip) Discussion on per-FR gap capability ZTE Corporation, Sanechips discussion Rel-17 TEI17

[R2-2211743](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211743.zip) Discussion on Per FR gap Apple discussion Rel-17 TEI17

[R2-2211266](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211266.zip) Discussion on per FR gap UE capability OPPO discussion Rel-17 NR\_newRAT-Core

[R2-2211267](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211267.zip) Draft 38.331 CR on per FR gap report OPPO CR Rel-17 38.331 17.2.0 3576 - B NR\_newRAT-Core

[R2-2211268](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211268.zip) Draft 38.306 CR on UE capability for per FR gap report OPPO CR Rel-17 38.306 17.2.0 0825 - B NR\_newRAT-Core

[R2-2211654](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211654.zip) Discussion on per-FR gap capability vivo discussion Rel-17 TEI17

Moved from 6.24

[R2-2211655](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211655.zip) 38.331 CR on per-FR gap capability vivo CR Rel-17 38.331 17.2.0 3627 - F TEI17

Moved from 6.24

[R2-2211656](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211656.zip) 38.306 CR on per-FR gap capability vivo CR Rel-17 38.306 17.2.0 0832 - F TEI17

Moved from 6.24

[R2-2212142](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212142.zip) Discussion on per-FR gap Samsung R&D Institute India discussion

Withdrawn

R2-2212341 Introduction of NeedForGaps for per-FR gaps Nokia, Nokia Shanghai Bell discussion Rel-17 38.306 TEI17 Withdrawn

R2-2212342 Introduction of NeedForGaps for per-FR gaps Nokia, Nokia Shanghai Bell discussion Rel-17 38.331 TEI17 Withdrawn

### 6.21.2 Corrections

Corrections CRs (Correction to TEI)

## 6.22 NR and MR-DC measurement gap enhancements

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

Tdoc Limitation: 1 tdocs

Legacy gap

[R2-2211118](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211118.zip) LS on priority for legacy gaps (R4-2215132; contact: Nokia) RAN4 LS in Rel-17 NR\_MG\_enh-Core To:RAN2

* Nokia clarifies that this is consistent with R2 progress.
* HW think we need to determine if there is further change.
* Ericsson think that R2 shall restrict the UE configuration.
* QC nothing more need to be done, next release may provide requirements for this.
* Intel also agrees nothing need to be done.
* The lack of requirements for this specific case don’t impact RAN2 TS.

[R2-2212491](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212491.zip) On legacy gap priority Ericsson discussion Rel-17 NR\_MG\_enh-Core

* noted

NCSG

[R2-2212725](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212725.zip) Corrections on VIRP configuration and gapPriority description Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3729 - F NR\_MG\_enh-Core

- HW think the change is ok, but cover page should have no change marks.

- MTK also agree this CR

* Revised for cover sheet update, revision is agreed unseen in R2-2213317

PRS

[R2-2212873](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212873.zip) Corrections on gapAssociationPRS Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3747 - F NR\_MG\_enh-Core

- ZTE understands from R4 that PRS can only be associated with perUE gaps. Pos session however decided that perFR gaps can be used. Combination of two WI. MTK agrees.

- QC think we already can have indep gap configured for PRS. MTK think that for concurrent gaps there is a table in R4 and a note clearly specifying what can be used.

- vivo agrees these issues are coupled.

Offline 41, check R2 internally the state of Pos session agreements, and what could be asked R4 in an LS.

- HW reports that it was agreeable to send an LS

[R2-2213344](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213344.zip)

* LS out is pproved in R2-2213350

Concurrent MG

[R2-2211901](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211901.zip) Correction on gapToAddModList ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3657 - F NR\_MG\_enh-Core

- ZTE think that this is a clarification, that the new list can be used to configure one legacy gap.

- Ericsson think this is not a clarification, and think this is controversial, current text not agreeable

- MTK think this is not precluded, and we don’t need a clarification.

- Nokia also think this CR is not needed.

* Not pursued
* R2 understands that the gapToAddModList may contain only one entry (with one or zero legacy gaps configured). This is already allowed and no clarification is needed.

Other

[R2-2212313](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212313.zip) Corrections and clarifications for MG association   Samsung R&D Institute India    discussion

P1, P2

- MTK think that the network can handle this (option b)

- ZTE think that option b is always there and the network will need to provide a measurem gap config anyway after reestablishment. Huawei agrees with ZTE and no need to consider option a.

- QC would prefer option a. ZTE that in that case if only one MG shall be configured after reest then the option a is easier for the network.

- Intel think we discussed this and similar things in the WI and agreed to let network handle.

- vivo think that for reestablishment the UE anyway will have some non-valid configurations and the network can do this.

P3

- MTK think that no behaivour is changed by this but could accept to add e.g. if available.

- ZTE think not needed

- Intel think this just causes more confusion.

P2: Chair: There was some support and also some objections. As this is essentially an optimization then not agreed. Rely on the network to release any non-wanted or hanging configurations at reestablishment, including the gap configuration.

* Noted, no agreements

## 6.23 Uplink Data Compression (UDC)

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

Tdoc Limitation: 1 tdocs

[R2-2211389](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211389.zip) Correction on PDCP Control PDU for UDC feedback CATT, LG Electronics, Mediatek, Huawei, HiSilicon, CMCC CR Rel-17 38.323 17.2.0 0105 - F NR\_UDC-Core

* Lenovo think that we can also remove “Packet” 2nd change
* Lenovo wonder about reception/transmission operation. For completeness can consider add something for transmit operation for UDC feedback.
* Lenovo think that ciphering and IP is not for PDCP control PDUs and can then be removed.

- ZTE support this CR.

* remove “Packet” for 2nd change
* Revised in R2-2212977, and the revision is agreed unseen

## 6.24 NR R17 Other

Includes Rel-17 Work Items without specific R2 Agenda Item. Includes LS in for R17 items not in a specific R2 Agenda Item.

### 6.24.1 RAN4 led Items

#### 6.24.1.0 In-Principle Agreed CRs

[R2-2212128](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212128.zip) CRS-IM default network configuration assumptions for MBSFN configuration in non-DSS scenario Qualcomm Incorporated, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3497 2 F NR\_demod\_enh2-Core R2-2211010

* Agreed

[R2-2211724](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211724.zip) Clarification on NR HST configuration Apple CR Rel-17 38.331 17.2.0 3507 2 F NR\_HST\_FR1\_enh R2-2211057

R2-2212980 Clarification on NR HST configuration Apple CR Rel-17 38.331 17.2.0 3507 3 F NR\_HST\_FR1\_enh

=> Agreed

R2-2212979 Clarification on R16 NR HST configuration Apple CR Rel-17 38.331 17.2.0 3757 - A NR\_HST-Core

=> Agreed

See also additional proposal below

[R2-2211725](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211725.zip) Clarification on R16 NR HST configuration Apple CR Rel-16 38.331 16.10.0 3635 - F NR\_HST-Core

R2-2212978 Clarification on R16 NR HST configuration Apple CR Rel-16 38.331 16.10.0 3635 1 F NR\_HST-Core

=> Agreed

Moved from 5.1.3.1.1

* Nokia wonder if we really need to condition change, it can be inferred form the FD. Apple explain that this was IPA last meeting.
* The changes are all agreeable, from [R2-2211724](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211724.zip), and [R2-2211725](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211725.zip) restructure to make Cat F + Cat A and a Cat F (R17) CR.
* The 3 CRs are agreed unseen

[R2-2211704](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211704.zip) Corrections to intra-band UL CA DC default location Apple Inc. Lenovo, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3568 2 F NR\_RF\_FR2\_req\_enh2-Core R2-2210991

See also additional proposal below

* Revised in R2-2112975, include merge, and revision us agreed unseen.

[R2-2211744](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211744.zip) Correction on FR2 UL gap Apple CR Rel-17 38.321 17.2.0 1399 3 F NR\_RF\_FR2\_req\_enh2 R2-2211042

See also additional proposal below

* agreed

#### 6.24.1.1 General

UL CA DC location

[R2-2212902](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212902.zip) Correction on DC location ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3749 - F NR\_RF\_FR2\_req\_enh2-Core

* Apple and HW think we can merge with IPA CR.
* Contents is agreed, merged with CR3568.

FR2 UL Gap

[R2-2211548](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211548.zip) Corrections to FR2 UL Gap Lenovo CR Rel-17 38.331 17.2.0 3613 - F NR\_RF\_FR2\_req\_enh2-Core

* Apple support the changes but think they are editorial can be merged with Rapporteur CR.
* Lenovo are ok with this
* Contents is agreed, merged with Rapporteur CR.

Dual PA

[R2-2212413](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212413.zip) Correction to definition of dualPA-Architecture capability indication Ericsson, OPPO, Samsung CR Rel-15 38.306 15.18.0 0813 1 F NR\_RF\_FR1\_enh R2-2210134

[R2-2212414](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212414.zip) Correction to definition of dualPA-Architecture capability indication Ericsson, OPPO, Samsung CR Rel-16 38.306 16.10.0 0812 1 A NR\_RF\_FR1\_enh R2-2209381

[R2-2212415](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212415.zip) Correction to definition of dualPA-Architecture capability indication Ericsson, OPPO, Samsung CR Rel-17 38.306 17.2.0 0811 1 A NR\_RF\_FR1\_enh R2-2209382

* 3 CRs agreed

[R2-2212416](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212416.zip) Correction to description of secondPA-TxDirectCurrent field Ericsson, OPPO, Samsung CR Rel-17 38.331 17.2.0 3558 1 F NR\_RF\_FR1\_enh R2-2210659

* Ericsson explains that the first 3 are based on R4 requested change.
* Second PA DC location was discussed last meeting, but wasn’t time
* HW think that the additional line is not needed, and it is clear without it. Nokia agrees.
* Ericsson think this is good guidance to UE vendors. Nokia think this is optional. Samsung think last meeting it was largely unclear, so it is good to clarify
* Not pursued
* For Field secondPA-TxDirectCurrent, The uplink Tx Direct Current location used by the UE with the second PA for the UEs which support dual PA for this uplink carrier aggregation. This field shall be absent for the UplinkTxDirectCurrentTwoCarrier entity where deactivatedCarrier of carrierOneInfo or carrierTwoInfo is set to deactivated. In other situations, it is up to UE implementation when the UE includes the uplink Tx Direct Current location for the second PA.

[R2-2212901](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212901.zip) Correction on dual PA ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3748 - F NR\_RF\_FR1\_enh

* Apple think this decouples things nicely, and support.
* MTK think current R2 text is sufficient.
* SS: not needed.
* Not pursued

FBG5 BW Classes

[R2-2212966](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212966.zip) Summary of RAN2 contributions on FBG5 BW Classes Qualcomm Incorporated discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

* QC think that the main question is whether the new parameter would be useful for any common case. QC think this is a quite common case.
* HW think that feature set per CC would need to be the same to utilize this, and this would typically be different. HW think by having one combination and this parameter Many new cases would be indicated, and need to test anyway. QC think similar situation already exists. HW think that previously we could limit to non-higherst BW
* Xiaomi think that if we use this we need to apply that BW for fallbacks may be higher than original BW. QC think this is covered in P3, and for legacy this seems possible.
* MTK think the new proposal has signalling reduction benefit, but are still not sure this will be a common case.
* TMO think this is an optimization.
* Chair: majority (a weak majority) believes the additional parameter doesn’t bring enough gain, ie. No consensus in RAN2 to introduce the new parameter.
* No blocking issues found, but:
* No consensus in RAN2 to introduce the new parameter

[R2-2212147](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212147.zip) On FR2 FBG5 Ericsson discussion Rel-17 TEI17

P4

* HW not sure this is useful, as legacy NB don’t understand the filter. Ericsson think we should get rid of legacy stuff,
* Apple support. QC as well.
* Xiaomi have sympathy with HW.
* Introduce capability filter such that FR2 legacy BW classes are omitted from BC capability signalling if FBG5 BW class is reported.

[R2-2212836](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212836.zip) On size reduction benefit in new signaling proposal of FBG5 MediaTek Inc. discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

P1 For cross-WG alignment of fallback rules, RAN2 to consider sending LS to RAN4 for the observation: UE would need to support an undefined BCS of a certain CA if it is a fallback derived from a parent CA by following RAN4 fallback requirement within an FBG.

DISCUSSIon

* HW agrees with observations, and think we should tell R4.
* Ericsson think we cannot use the wording undefned BCS in the LS, should use examples instead.
* Include aspects of MTK O1 O2 P1 and discuss offline if to, what to tell/discuss in an LS to R4 .

Offline 22, LS out (QC)

[R2-2213298](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213298.zip) [DRAFT] Reply LS on new contiguous BW classes for legacy networks Qualcomm LS out Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN4

- QC reports that we can also add the agreed CR fro the next discussion.

* Attach the agreed CR below and add a line of text on this.
* With this change the LS out is approved, in R2-2213312

[R2-2212585](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212585.zip) Introduction of FR2 FBG5 CA BW classes Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3432 2 B NR\_RF\_FR2\_req\_enh2-Core R2-2210540

* HW think this is easily agreed.
* Chair: no comments, CR seems agreeable need to add the filter.

Offline 23, CR (HW)

[R2-2212983](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212983.zip) Introduction of FR2 FBG5 CA BW classes Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3432 3 B NR\_RF\_FR2\_req\_enh2-Core

* Content of this CR is agreed, merged with UE cap R17 Mega CR

[R2-2212584](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212584.zip) Discussion on the fallback of contiguous BW classes Huawei, HiSilicon discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

[R2-2212124](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212124.zip) Maximum aggregated bandwidth for FBG5 Qualcomm Incorporated discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

[R2-2212125](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212125.zip) Introduction of maximum aggregated bandwidth for FBG5 Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3672 - C NR\_RF\_FR2\_req\_enh2-Core

[R2-2212126](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212126.zip) Introduction of maximum aggregated bandwidth for FBG5 Qualcomm Incorporated CR Rel-17 38.306 17.2.0 0835 - C NR\_RF\_FR2\_req\_enh2-Core

[R2-2211220](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211220.zip) Discussion on FBG5 OPPO discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

[R2-2211977](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211977.zip) Discussion on the signaling design of FBG5 Xiaomi discussion Rel-17 TEI17

[R2-2212123](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212123.zip) UE capability signalling for fallback band combinations and fallback bandwidth classes Qualcomm Incorporated discussion Rel-16 TEI16

*Moved from 5.1.1.3*

[R2-2212744](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212744.zip) Further Consideration on the FBG5 ZTE Corporation, Sanechips discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

Simultaneous RxTx

Await LS from RAN4

[R2-2212148](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212148.zip) On UE capabilities for simultaneous Rx-Tx Ericsson discussion Rel-17 TEI17

### 6.24.2 RAN1 led Items

#### 6.24.2.0 In-Principle Agreed CRs

#### 6.24.2.1 General

[R2-2211156](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211156.zip) LS on a Rel-17 RRC parameter intraBandNC-PRACH-simulTx-r17 (R1-2210747; contact: Huawei) RAN1 LS in Rel-17 TEI17, NR\_newRAT To:RAN2

Moved from 5.1.1

* Noted

[R2-2212594](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212594.zip) Add RRC parameter of intraBandNC-PRACH-simulTx-r17 Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3716 - F TEI17

[R2-2212198](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212198.zip) Addition of intraBandNC-PRACH-simulTx Parameter [NC-PRACH-SimulTx] Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3682 - B NR\_newRAT-Core, TEI17

[R2-2211291](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211291.zip) Parallel PRACH and SRS/PUCCH/PUSCH transmissions across CCs in intra-band non-contiguous CA Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3577 - B NR\_newRAT-Core, TEI17

* HW is ok to go with CG level. Still prefer allow rather than enable
* Ericsson wonder about the first capability in the LS. QC think this is already handled

Offline 024, CR (QC), joint CR, can discuss if reply LS (by hw) is needed

- QC reports that reply LS is not needed, and CR in R2-2213274 is agreeable.

[R2-2213274](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213274.zip) Parallel PRACH and SRS/PUCCH/PUSCH transmissions across CCs in intra-band non-contiguous CA [NC-PRACH-SimulTx] Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, Ericsson CR Rel-17 38.331 17.2.0 3577 1 B NR\_newRAT-Core, TEI17

- Chair: cover sheet update to remove the r15 WI code.

* Revised in R2-2213313, which is agreed unseen

[R2-2212394](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212394.zip) Correction on crossCarrierSchedulingSCell-SpCellTypeA-r1 Ericsson CR Rel-17 38.306 17.2.0 0838 - F NR\_DSS

- LGE and QC support the CR.

* CR is endorsed for merge with mega CR

### 6.24.3 Other

#### 6.24.3.0 In-Principle Agreed CRs

[R2-2212421](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212421.zip) Correction to disasterRoamingFromAnyPLMN [MINT] Ericsson, Lenovo CR Rel-17 36.331 17.2.0 4878 2 F TEI17 R2-2210973

[R2-2212422](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212422.zip) Correction to disasterRoamingFromAnyPLMN [MINT] Ericsson, Lenovo CR Rel-17 38.331 17.2.0 3557 2 F TEI17 R2-2210974

* Both Agreed

#### 6.24.3.1 General

# 7 Rel-17 EUTRA Work Items

## 7.1 Common

(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.

[R2-2211103](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211103.zip) LS on updated Rel-17 RAN1 UE features lists for LTE after RAN1#110 Thursday (R1-2207926; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-17 NB\_IOTenh4\_LTE\_eMTC6, LTE\_NBIOT\_eMTC\_NTN, LTE\_terr\_bcast\_bands\_part1, NR\_SL\_enh To:RAN2 Cc:RAN4

[R2-2211140](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211140.zip) LS on updated Rel-17 RAN1 UE features lists for NR after RAN1#110bis-e (R1-2210489; contact: NTT DoCoMo, AT&T) RAN1 LS in Rel-17 NR\_feMIMO, NR\_ext\_to\_71GHz, NR\_IIOT\_URLLC\_enh, NR\_NTN\_solutions, NR\_pos\_enh, NR\_redcap, NR\_UE\_pow\_sav\_enh, NR\_cov\_enh, NR\_IAB\_enh, NR\_SL\_enh, NR\_MBS, NR\_DSS, LTE\_NR\_DC\_enh2, NR\_DL1024QAM\_FR1, NR\_RF\_FR1\_enh, NR\_SmallData\_INACTIVE, TEI17, NR\_newRAT To:RAN2 Cc:RAN4

[R2-2211292](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211292.zip) Correction to npusch-16QAM-r17 Qualcomm Incorporated CR Rel-17 38.306 17.2.0 0826 - F NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2211364](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211364.zip) Removal of FFS from LTE Relay description Nokia (rapporteur), Ericsson CR Rel-17 36.300 17.2.0 1374 - F TEI17, LTE\_Relay-Core

[R2-2211751](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211751.zip) Correction on ue-ConfigRelease Huawei, HiSilicon CR Rel-17 36.331 17.2.0 4889 - F TEI17

[R2-2212790](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212790.zip) Add a new field for indicating access stratum release Google Inc. CR Rel-17 36.331 17.2.0 4880 1 F NB\_IOTenh4\_LTE\_eMTC6-Core, UPIP\_SEC\_LTE-RAN-Core R2-2210704

## 7.2 NB-IoT and eMTC support for NTN

Tdoc Limitation: 3 tdocs

### 7.2.0 In-principle agreed CRs

CRs AIP from RAN2#119bis-e.

[R2-2211287](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211287.zip) Corrections for Supporting Non-Terrestrial Network in NB-IoT and eMTC Mediatek Inc. CR Rel-17 36.321 17.2.0 1556 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2212106](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212106.zip) Miscellanious Correction for IoT-NTN Capabilities Nokia Solutions & Networks (I) CR Rel-17 36.306 17.2.0 1864 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212830](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212830.zip) Corrections to IOT NTN Huawei, HiSilicon CR Rel-17 36.331 17.2.0 4884 1 F LTE\_NBIOT\_eMTC\_NTN R2-2211020

[R2-2212955](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212955.zip) Miscellaneous idle mode corrections Ericsson CR Rel-17 36.304 17.2.0 0859 - F LTE\_NBIOT\_eMTC\_NTN

### 7.2.1 General and Stage 2 corrections

LSs, rapporteur inputs and Stage 2 corrections. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

[R2-2211171](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211171.zip) LS on information for neighbor/target cell in IoT NTN (R4-2217265; contact: Huawei) RAN4 LS in Rel-18 LTE\_NBIOT\_eMTC\_NTN\_req-Core To:RAN2

[R2-2212944](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212944.zip) R17 IoT NTN stage 2 issues Ericsson discussion Rel-17

### 7.2.2 UP corrections

[R2-2211286](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211286.zip) Correction on UE-eNB RTT Mediatek Inc. CR Rel-17 36.321 17.2.0 1555 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2211334](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211334.zip) Discussion on DRX HARQ RTT timer for eMTC over NTN OPPO discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211515](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211515.zip) Discussion on HARQ RTT timer in IoT NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211577](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211577.zip) Start of DL HARQ RTT timer for eMTC in NTN Qualcomm Incorporated CR Rel-17 36.321 17.2.0 1557 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212789](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212789.zip) On DRX HARQ RTT timer for eMTC NTN Nokia, Nokia Shanghai Bell discussion Rel-17 IoT\_NTN\_enh

[R2-2212942](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212942.zip) Correction for IoT NTN Ericsson CR Rel-17 36.321 17.2.0 1558 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212943](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212943.zip) R17 IoT NTN User Plane issues Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

### 7.2.3 CP corrections

[R2-2211284](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211284.zip) Misc RRC correction for IoT NTN MediaTek Inc. CR Rel-17 36.331 17.2.0 4885 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2211285](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211285.zip) Discussion on epoch time Mediatek Inc. discussion Rel-17 36.331

[R2-2211309](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211309.zip) Discussion on introducing satellite assistance information for neighbour cells in SIB31 CATT discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211310](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211310.zip) Discussion on remaining issue of IoT NTN UE capability CATT discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211516](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211516.zip) Clarification on UE behaviour when validity timer expires Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211575](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211575.zip) Discussion on SA2 LS reply on UE capability for IoT NTN Qualcomm Incorporated discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211576](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211576.zip) Reporting the support of TN bands to NTN Qualcomm Incorporated CR Rel-17 36.331 17.2.0 4888 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212001](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212001.zip) Discussion on RRC corrections ZTE Corporation, Sanechips discussion LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2212003](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212003.zip) Further discussion on UE capability signalling for IoT-NTN ZTE Corporation, Sanechips discussion LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2212005](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212005.zip) Corrections for UE capability ZTE Corporation, Sanechips CR Rel-17 36.306 17.2.0 1863 - F LTE\_NBIOT\_eMTC\_NTN-Core Late

[R2-2212043](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212043.zip) Inclusion of neighbour cell ephemeris in system information Lenovo discussion Rel-17

R2-2212099 On the remaining issues of UE capabilities for TN-NTN connected mode mobility Nokia, Nokia Shanghai Bell discussion Rel-17 Withdrawn

[R2-2212100](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212100.zip) Further discussion on epoch-Time reference for Handover scenarios Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2212208](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212208.zip) Corrections related to Timers for SIB-31 acquisition Nokia Solutions & Networks (I) CR Rel-17 36.331 17.2.0 4890 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212485](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212485.zip) On neighbouring cell ephemeris for IoT NTN Samsung R&D Institute UK discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2212679](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212679.zip) Corrections on HandoverPreparationInformation in 36.331 CATT CR Rel-17 36.331 17.2.0 4897 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212831](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212831.zip) Remaining issues on UE capability signalling for IoT-NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2212832](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212832.zip) CR to 36.331 on neighbour cell ephemeris Huawei, HiSilicon CR Rel-17 36.331 17.2.0 4898 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212953](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212953.zip) Neighbour cell information in IoT NTN Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

# 8 Rel-18

## 8.1 NR network-controlled repeaters

(NR\_NetConRepeater; leading WG: RAN1; REL-18; WID: RP-222673)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.1.1 Organizational

Including LSs and any rapporteur inputs.

[R2-2211173](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211173.zip) Reply LS on NCR Solutions (S3-223080; contact: ZTE) SA3 LS in Rel-18 FS\_NR\_netcon\_repeater To:RAN3 Cc:RAN2, SA2, SA5

### 8.1.2 Signalling for side control information

Signalling and procedures for for side control information, based on RAN1 agreements. Additionally, any other RAN2 reletated aspects, if needed.

[R2-2211198](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211198.zip) Further discussion on the necessary aspects to support NCR Huawei, HiSilicon discussion Rel-18 NR\_netcon\_repeater

[R2-2211376](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211376.zip) Discussion on NCR Functionality and UE Capability Intel Corporation discussion Rel-18 NR\_netcon\_repeater

[R2-2211474](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211474.zip) Configuration of Network-controlled Repeater Qualcomm Inc. discussion Rel-18 NR\_netcon\_repeater

[R2-2211521](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211521.zip) NCR-MT RRM functions Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_netcon\_repeater

[R2-2211695](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211695.zip) Discussion on Signaling for side control information Apple discussion DUMMY

[R2-2211802](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211802.zip) Discussion on Signaling for Side Control Information vivo discussion Rel-18

[R2-2211857](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211857.zip) Discussion on state transition for NCR-MT Fujitsu discussion Rel-18 NR\_netcon\_repeater

[R2-2211908](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211908.zip) Consideration on NCR open issues ZTE Corporation, Sanechips discussion Rel-18 NR\_netcon\_repeater Late

[R2-2211915](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211915.zip) Considerations on side control information Sony discussion Rel-18 NR\_netcon\_repeater

[R2-2211976](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211976.zip) On NCR Features supported Samsung R&D Institute UK discussion Rel-18 NR\_netcon\_repeater

[R2-2212017](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212017.zip) Discussion on open issues for NCR-MT Lenovo discussion Rel-18

[R2-2212143](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212143.zip) Signaling for side control information and RRM functions CATT discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2212309](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212309.zip) Signalling for NCR side control information MediaTek Inc. discussion Rel-18

[R2-2212492](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212492.zip) Discussion on signalling aspects for NCR Ericsson discussion Rel-18 NR\_netcon\_repeater

[R2-2212498](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212498.zip) Considerations on NCR remaining issues NEC Corporation discussion

[R2-2212525](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212525.zip) Further consideration of network-controlled repeaters Kyocera discussion Rel-18

[R2-2212621](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212621.zip) Discussion on signaling for side control information CMCC discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2212731](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212731.zip) RLM/RRM support for NR network-controlled repeaters AT&T discussion

[R2-2212791](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212791.zip) Discussion on signalling for side control information China Telecom discussion

[R2-2212920](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212920.zip) Resolving open issues for NCR. LG Electronics discussion Rel-18

### 8.1.3 Repeater management

Including Identification and authorization of network-controlled repeaters, taking into accout feedback from SA3 (S3-223080).

[R2-2211199](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211199.zip) Way forwad for NCR management Huawei, HiSilicon discussion Rel-18 NR\_netcon\_repeater

[R2-2211377](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211377.zip) Authorization and verification of NCR: RAN2 impact Intel Corporation discussion Rel-18 NR\_netcon\_repeater

[R2-2211475](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211475.zip) Management of Network-controlled Repeater Qualcomm Inc. discussion Rel-18 NR\_netcon\_repeater

[R2-2211522](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211522.zip) Down-selection of NCR management solutions Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_netcon\_repeater

[R2-2211696](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211696.zip) Discussion on NCR repeater management Apple discussion DUMMY

[R2-2211803](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211803.zip) Discussion on NCR Management vivo discussion Rel-18

[R2-2211858](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211858.zip) Discussion on NCR management Fujitsu discussion Rel-18 NR\_netcon\_repeater

[R2-2211881](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211881.zip) Repeater management Samsung R&D Institute UK discussion

[R2-2211909](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211909.zip) Consideration on NCR management ZTE Corporation, Sanechips discussion Rel-18 NR\_netcon\_repeater

[R2-2211916](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211916.zip) Clarifications about NCR management solutions based on SA3 reply Sony discussion Rel-18 NR\_netcon\_repeater

[R2-2212018](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212018.zip) Discussion on repeater management for NCR-MT Lenovo discussion Rel-18

[R2-2212144](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212144.zip) Management of Network-Controlled Repeater CATT discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2212493](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212493.zip) Discussion on capabilities and remaining issues for NCR Ericsson discussion Rel-18 NR\_netcon\_repeater

[R2-2212497](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212497.zip) Down-selection of NCR management solutions NEC Corporation discussion

[R2-2212499](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212499.zip) Management of Network-controlled repeater Philips International B.V. discussion Rel-18

[R2-2212609](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212609.zip) Discussion on NCR management Rakuten Mobile, Inc discussion Rel-18

[R2-2212622](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212622.zip) Discussion on the network-controlled repeater management CMCC discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2212793](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212793.zip) Discussion on identification and authorization of Network-Controlled Repeaters China Telecom discussion

[R2-2212853](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212853.zip) NCR management MediaTek Inc. discussion Rel-18

## 8.2 Expanded and improved NR positioning

(FS\_NR\_pos\_enh2; leading WG: RAN1; REL-18; WID: RP-221814)

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

### 8.2.1 Organizational

Including incoming LSs and rapporteur inputs.

[R2-2211130](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211130.zip) LS Out on Positioning Reference Units (S2-2209590; contact: CATT) SA2 LS in Rel-18 FS\_eLCS\_Ph3 To:RAN1 Cc:RAN2, RAN3

[R2-2211131](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211131.zip) LS on LPHAP information delivery to RAN (S2-2209591; contact: Huawei) SA2 LS in Rel-18 FS\_eLCS\_Ph3 To:RAN1, RAN2 Cc:RAN3

[R2-2211139](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211139.zip) LS on RAN dependency for Ranging/Sidelink Positioning (S2-2209961; contact: Xiaomi) SA2 LS in Rel-18 FS\_Ranging\_SL To:RAN1, RAN2, RAN3

[R2-2211145](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211145.zip) Reply LS on Terminology Alignment for Ranging/Sidelink Positioning (R1-2210567; contact: Xiaomi) RAN1 LS in Rel-18 FS\_Ranging\_SL To:SA2 Cc:RAN2, RAN3

[R2-2211222](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211222.zip) Discussion on the PRU LS from SA2 CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211223](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211223.zip) Open Issue List of Study Item on Expanded and Improved NR Positioning CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211224](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211224.zip) Text Proposals of TR 38.859 for Expanded and Improved NR Positioning CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211225](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211225.zip) draft LS to capture Text Proposal for TR 38.859 CATT LS out Rel-18 FS\_NR\_pos\_enh2 To:RAN 1 Cc:RAN3

[R2-2211253](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211253.zip) Discusison on the reply to SA2 LS on LPHAP Huawei, HiSilicon discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211758](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211758.zip) Discussion on reply LS on RAN dependency for Ranging Sidelink Positioning OPPO discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212179](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212179.zip) [Draft] Response LS to SA2 on the Ranging and Sidelink positioning Spreadtrum Communications LS out Rel-18 FS\_NR\_pos\_enh2 To:SA WG2 Cc:RAN WG1, RAN WG3

[R2-2212809](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212809.zip) Discussion on LS from SA2 on RAN dependency Xiaomi discussion Rel-18

[R2-2212810](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212810.zip) Draft Reply LS on RAN dependency for Ranging & Sidelink Positioning Xiaomi LS out Rel-18 To:SA2 Cc:RAN1, RAN3

[R2-2212856](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212856.zip) RAN dependency for Ranging/Sidelink Positioning Qualcomm Incorporated discussion

### 8.2.2 Sidelink positioning

Study of positioning architecture and signalling procedures (e.g. configuration, measurement reporting, etc) to enable sidelink positioning covering both UE based and network based positioning. Considering relative positioning, ranging and absolute positioning.

[R2-2211226](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211226.zip) Discussion on SL Positioning CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211230](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211230.zip) Discussion on sidelink positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211252](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211252.zip) Discussion on Sidelink Positioning Huawei, HiSilicon discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211462](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211462.zip) Support of sidelink positioning Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211661](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211661.zip) Server UE functions MediaTek Inc. discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211688](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211688.zip) SLPP/RSPP protocol design Apple discussion FS\_NR\_pos\_enh2

[R2-2211839](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211839.zip) Further discussion on sidelink positioning OPPO discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211917](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211917.zip) Considerations on sidelink positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212082](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212082.zip) Considerations for UE Positioning using Sidelink Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2212096](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212096.zip) On SL Positioning Protocol and Architecture Lenovo discussion Rel-18

[R2-2212109](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212109.zip) Discussion of session-based and session-less sidelink positioning Nokia Germany discussion Rel-18

[R2-2212112](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212112.zip) Protocol and coverage aspects of sidelink positioning Nokia Germany discussion

[R2-2212169](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212169.zip) Discussion on potential solutions for SL positioning Spreadtrum Communications discussion Rel-18

[R2-2212359](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212359.zip) NW Assisted Ranging and Protocol Name and terminologies Ericsson discussion Rel-18

[R2-2212470](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212470.zip) Study of signalling procedures and design considerations for sidelink positioning LG Electronics Deutschland discussion Rel-18

[R2-2212506](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212506.zip) Discussion on Sidelink Positioning InterDigital Communications discussion Rel-18

[R2-2212554](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212554.zip) Signaling procedures to enable sidelink positioning Sharp discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212647](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212647.zip) Discussion on SL-PRS resource allocation schemes Samsung discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212685](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212685.zip) Discussion on sidelink positioning ZTE Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212710](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212710.zip) Considerations on Sidelink positioning CMCC discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212811](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212811.zip) Discussion on SL positioning Xiaomi discussion Rel-18

[R2-2212857](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212857.zip) Study of Sidelink Positioning Architecture, Signaling and Procedures Qualcomm Incorporated discussion

[R2-2212883](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212883.zip) Discussion on SL-POS protocol architecture design Samsung Electronics Romania discussion

[R2-2212941](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212941.zip) Protocol considerations for sidelink positioning Philips International B.V. discussion Rel-18 38.859 FS\_NR\_pos\_enh2 Late

### 8.2.3 RAT-dependent integrity

Study methodologies, procedures, signalling, etc for determination of positioning integrity for both UE-based and UE-assisted positioning. Focus on reuse of concepts and principles being developed for RAT-Independent GNSS positioning integrity, where possible. Identification of error sources may require input from RAN1.

[R2-2211227](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211227.zip) Discussion on RAT dependent integrity CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211231](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211231.zip) Discussion on RAT-dependent integrity vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211251](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211251.zip) Discussion on RAT-dependent Integrity Huawei, HiSilicon discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211463](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211463.zip) Integrity for RAT dependent positioning methods Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211838](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211838.zip) Consideration on RAT-dependent integrity OPPO discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211918](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211918.zip) Considerations on some aspects for integrity of RAT dependent positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212050](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212050.zip) Discussion on RAT-dependent integrity Lenovo discussion Rel-18

[R2-2212074](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212074.zip) Discussion on RAT-dependent positioning integrity Xiaomi discussion

[R2-2212170](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212170.zip) Discussion on solutions for integrity of RAT-dependent positioning techniques Spreadtrum Communications discussion Rel-18

[R2-2212242](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212242.zip) Integrity of NR Positioning Technologies Qualcomm Incorporated discussion

[R2-2212358](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212358.zip) Text proposal and Signaling for Integrity Computation at LMF Ericsson discussion Rel-18

R2-2212361 Text proposal and Signaling for Integrity Computation at LMF Ericsson discussion Rel-18 Withdrawn

[R2-2212505](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212505.zip) Use of DNU flag for RAT-dependent positioning integrity Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212509](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212509.zip) Discussion on RAT-dependent Integrity InterDigital Communications discussion Rel-18

R2-2212564 Discussion on RAT dependent integrity BUPT discussion Late

[R2-2212625](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212625.zip) Discussion on the integrity issues CMCC discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212684](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212684.zip) Discussion on RAT-dependent methods positioning integrity ZTE Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212884](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212884.zip) Discussion on RAT-dependent integrity Samsung Electronics Romania discussion

### 8.2.4 LPHAP

Study the requirements on LPHAP as developed by SA1 and evaluate whether existing RAN functionality can support these power consumption and positioning requirements. Based on the evaluation, and, if found beneficial, study potential enhancements to help address any limitations.

[R2-2211228](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211228.zip) Discussion on LPHAP CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211232](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211232.zip) Discussion on LPHAP vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211250](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211250.zip) Discussion on LPHAP Huawei, HiSilicon, CATT, China Unicom, Nokia, Spreadtrum discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211464](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211464.zip) Support of LPHAP Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211840](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211840.zip) Further consideration on LPHAP OPPO discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211919](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211919.zip) Considerations on some aspects for LPHAP Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212051](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212051.zip) Discussion on low power high accuracy positioning Lenovo discussion Rel-18

[R2-2212072](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212072.zip) SRS Configuration for supporting LPHAP Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2212075](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212075.zip) Discussion on LPHA positioning Xiaomi discussion

[R2-2212180](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212180.zip) Discussion on LPHAP Spreadtrum Communications discussion Rel-18

[R2-2212230](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212230.zip) DL Positioning measurement report THALES discussion

[R2-2212243](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212243.zip) Enhancements to Positioning in RRC\_INACTIVE State for LPHAP Qualcomm Incorporated discussion

[R2-2212360](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212360.zip) UL SRS Inactive mode complexities and Sequence ID Management and Simulations Recommendations Ericsson discussion Rel-18

[R2-2212510](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212510.zip) DRX related enhancement for LPHAP Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212512](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212512.zip) Discussion on LPHAP InterDigital Communications discussion Rel-18

[R2-2212648](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212648.zip) Discussion on the alignment between PRS and DRX Samsung discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212683](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212683.zip) Discussion on LPHAP ZTE Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212711](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212711.zip) Further considerations on LPHAP CMCC discussion Rel-18 FS\_NR\_pos\_enh2

### 8.2.5 RedCap positioning

Based on RAN1 evaluation, assess the necessity of enhancements, and, if needed, identify enhancements to help address limitations associated with RedCap UEs.

[R2-2211229](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211229.zip) Discussion on RedCap Positioning CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211233](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211233.zip) Discussion on RedCap positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2211270](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211270.zip) Discussion on RedCap Positioning Huawei, HiSilicon discussion

[R2-2211465](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211465.zip) Support of RedCap Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2212052](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212052.zip) Discussion on RedCap positioning Lenovo discussion Rel-18

[R2-2212076](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212076.zip) Discussion on RedCap UE positioning Xiaomi discussion

[R2-2212228](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212228.zip) RedCap positioning requirements for Public Safety Personal Protection Equipment (PPE FirstNet, AT&T, UK Home Office, Erillisverkot, MINISTERE DE L’INTERIEUR, SyncTechno Inc., Softil, Nkom discussion

[R2-2212362](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212362.zip) Positioning for RedCap UEs including Bluetooth and Text Proposal Ericsson discussion Rel-18

[R2-2212515](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212515.zip) Discussion on positioning for RedCap UE InterDigital Communications discussion Rel-18

[R2-2212682](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212682.zip) Discussion on RedCap positioning ZTE Corporation discussion Rel-18 FS\_NR\_pos\_enh2

## 8.3 Network energy savings for NR

(xx-Core; leading WG: RAN1; REL-18; WID: RP-213554)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

All contributions should have accompanying TP for each proposed solutions and identified RAN2 impact. All contributions should focus on the RAN2 impacts needed to be captured in TR and benefit of the solutions proposed.

### 8.3.1 Organizational

LS, workplan, email discussion etc

[R2-2211159](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211159.zip) LS on Cell DTX/DRX for NR network energy savings (R3-226002; contact: Huawei) RAN3 LS in Rel-18 FS\_Netw\_Energy\_NR To:RAN1 Cc:RAN2

[R2-2211427](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211427.zip) TP on cell selection/reselection and SSB/SIB-less Huawei, HiSilicon pCR Rel-18 38.864 0.1.0 FS\_Netw\_Energy\_NR

[R2-2211428](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211428.zip) Report of [POST119bis][304][NES] TP on cell selection/reselection and SSB/SIB-less (Huawei) Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212825](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212825.zip) Work plan for NR network energy savings Huawei, HiSilicon Work Plan Rel-18 FS\_Netw\_Energy\_NR

[R2-2212868](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212868.zip) Latest TR 38.864 v0.4.0 for information Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

### 8.3.2 DTX/DRX mechanism

Contributions should focus on further details and open issues for DTX/DRX, including RAN2 impacts and benefits.

[R2-2211443](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211443.zip) Remaining issues on Cell DTX/DRX CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211586](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211586.zip) NES Network DTX and DRX Mechanism Qualcomm Incorporated discussion Rel-18

[R2-2211664](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211664.zip) discussion on cell DTX/DRX vivo discussion Rel-18

[R2-2211679](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211679.zip) Further discussion on Cell DTX / DRX Apple discussion FS\_Netw\_Energy\_NR

[R2-2211774](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211774.zip) Further details on Cell DTX/DRX Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211920](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211920.zip) Discussion on idle and inactive state UE grouping for NES gNB DTX Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211953](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211953.zip) Discussion on DTX/DRX mechanism OPPO discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212058](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212058.zip) Discussion on DTX/DRX for NES Samsung discussion Rel-18

[R2-2212113](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212113.zip) Considerations of Cell DTX and DRX Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212182](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212182.zip) Supporting multiple DTX configuration ZTE Corporation, Sanechips discussion

[R2-2212314](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212314.zip) Further aspects on Cell DTX/DRX Ericsson discussion

[R2-2212324](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212324.zip) Cell DTX/DRX InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212569](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212569.zip) Cell DTX/DRX related issues ETRI discussion

[R2-2212792](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212792.zip) Assistance information for NW DTX/DRX NTT DOCOMO INC. discussion Rel-18

[R2-2212840](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212840.zip) Recommendations for DTX/DRX mechanism MediaTek Inc. discussion Rel-18

[R2-2212851](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212851.zip) Discussion on DTX/DRX mechanism LG Electronics Inc. discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212869](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212869.zip) Discussion on cell DTX Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR Late

### 8.3.3 SSB/SIB-less/paging

Contributions should focus on further details and open issues for SSB/SIB-less/paging solutions, including RAN2 impacts and benefits.

[R2-2211444](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211444.zip) Further Considerations on NES Cell without SIB CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211589](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211589.zip) NES SIB-less and SSB-less Techniques Qualcomm Incorporated discussion Rel-18

[R2-2211665](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211665.zip) discussion on SSB/SIB-less/paging vivo discussion Rel-18

[R2-2211680](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211680.zip) Discussion and comparison of SSB-less and SIB-less solutions Apple discussion FS\_Netw\_Energy\_NR

R2-2211826 Discussions on common signal-less solutions for NES Fujitsu discussion Rel-18 FS\_Netw\_Energy\_NR Withdrawn

[R2-2211845](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211845.zip) Discussions on common signal-less solutions for NES Fujitsu discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211954](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211954.zip) Discussion on SSB/SIB-less OPPO discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211966](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211966.zip) SSB and Paging for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212059](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212059.zip) Discussion on SSB/SIB-less Solutions for NES Samsung discussion Rel-18

[R2-2212114](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212114.zip) Considerations of SIBless cell with or without SSB Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212181](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212181.zip) Supporting access via NES cell ZTE Corporation, Sanechips discussion

[R2-2212312](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212312.zip) Discussion on SSB-less and SIB-less cell LG Electronics Inc. discussion Rel-18

[R2-2212327](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212327.zip) SSB/SIB-less cell operation InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212387](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212387.zip) SIB-less, SSB-less and paging enhancements Ericsson discussion

[R2-2212634](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212634.zip) Discussion on SSB/SIB1/Paging-less NES solution CMCC discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212720](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212720.zip) Considerations on SSB/SIB-less solutions for NW energy saving KDDI Corporation discussion

[R2-2212841](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212841.zip) Recommendations for SSB/SIB1-less techniques MediaTek Inc. discussion Rel-18

[R2-2212870](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212870.zip) Discussion on SIB-less techniques Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

### 8.3.4 Cell selection/re-selection

Contributions should focus on further details and open issues for cell selection/reselection, including RAN2 impacts and benefits.

[R2-2211445](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211445.zip) Remaining Issues on Cell Selection/Reselection CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211591](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211591.zip) Cell Selection and Reselection NES Techniques Qualcomm Incorporated discussion Rel-18

[R2-2211666](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211666.zip) discussion on cell selection/reselection vivo discussion Rel-18

[R2-2211681](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211681.zip) Further discussion on cell (re)selection enhancement for Network energy saving Apple discussion FS\_Netw\_Energy\_NR

[R2-2211955](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211955.zip) Discussion on cell selection/reselection OPPO discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211967](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211967.zip) Cell reselection and access control for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212053](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212053.zip) Cell selection/re-selection in NES Lenovo discussion Rel-18

[R2-2212060](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212060.zip) Discussion on Cell Selection and Reselection for NES Samsung discussion Rel-18

[R2-2212116](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212116.zip) Cell (re)selection for handling legacy UEs and NES capable Ues Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212183](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212183.zip) Consideration on cell selection and reselection related to NES for NR ZTE Corporation, Sanechips discussion

[R2-2212315](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212315.zip) Handling of NES capable and not capable UEs on EE Cell Ericsson discussion

[R2-2212325](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212325.zip) NES cell selection and resection aspects InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212796](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212796.zip) Assistance information for cell reselection NTT DOCOMO INC. discussion Rel-18

[R2-2212867](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212867.zip) Energy Saving from RRC Idle Operation Lenovo discussion FS\_Netw\_Energy\_NR

[R2-2212871](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212871.zip) Discussion on cell selection/reselection for NES Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212919](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212919.zip) Access restriction and cell reselection LG Electronics discussion Rel-18

### 8.3.5 Connected mode mobility

Contributions should focus on the need of mobility enhancements, including CHO and group mobilitiy. Proposed enhacments should be properly explained and have accompanying TPs.

[R2-2211446](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211446.zip) Consideration on mobility enhancements CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211602](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211602.zip) NES Connected mode mobility Qualcomm Incorporated discussion Rel-18

[R2-2211682](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211682.zip) Further discussion on mobility enhancement for Network energy saving Apple discussion FS\_Netw\_Energy\_NR

[R2-2211921](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211921.zip) Handover enhancement for NES Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211968](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211968.zip) Moiblity enhancements for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212054](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212054.zip) NES impact to UE mobility Lenovo discussion Rel-18

[R2-2212115](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212115.zip) Further considerations of group handover Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212273](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212273.zip) CHO improvements for Network Energy Savings Vodafone GmbH discussion Rel-18

[R2-2212326](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212326.zip) NES mobility aspects InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212393](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212393.zip) Group handover for NW energy savings Ericsson discussion

[R2-2212641](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212641.zip) Consideration on group mobility for network energy saving Fujitsu Limited discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212823](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212823.zip) Connected mode mobility LG Electronics Finland discussion Rel-18

[R2-2212872](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212872.zip) Discussion on connected mode mobility for NES Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212930](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212930.zip) Group Handover for NES Rakuten Mobile, Inc discussion Rel-18

### 8.3.6 Others

Contributions on remaining solutions not above, including cell wake-up signal, resource adapation, BWP adaptation, NES state determination and signaling, etc. Focus on these contributions should be on RAN2 impact and feasibility.

General UE assistance contributions will be deprioritized. Specific UE assistance aspects relating to the identified solutions can be proposed as part of other contributions.

[R2-2211667](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211667.zip) discussion on UE WUS and TP for TR vivo discussion Rel-18

[R2-2211922](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211922.zip) UE wake-up request signal Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211956](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211956.zip) Discussion on the UE assistance information OPPO, Apple discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212055](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212055.zip) Discussion on supporting of NES Lenovo discussion Rel-18

[R2-2212061](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212061.zip) BWP Adaptation for NES Samsung discussion Rel-18

[R2-2212110](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212110.zip) Impacts of SSB/SIB1 adaptations and their mitigation Fraunhofer IIS discussion FS\_Netw\_Energy\_NR

[R2-2212184](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212184.zip) Techniques in various domains and UE assistance information for NES ZTE Corporation, Sanechips discussion

[R2-2212383](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212383.zip) Discussion on Wake Up Signalling and paging-less NES cells NEC Telecom MODUS Ltd. discussion

[R2-2212842](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212842.zip) Recommendations for network energy saving techniques MediaTek Inc. discussion Rel-18

## 8.4 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID: RP-222332)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs .

### 8.4.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, running CRs update).

LS in

[R2-2211154](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211154.zip) LS on L1 intra- and inter- frequency measurement and configurations for L1/L2-based inter-cell mobility (R1-2210727; contact: CATT) RAN1 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2, RAN3, RAN4

* Noted

[R2-2211201](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211201.zip) Discussion on RAN1 LS on measurement and configurations for L1L2-based inter-cell mobility CATT, Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

- Ericsson think that one DU doesn’t know the configuration of another DU. Ericsson think no.

- Apple think we should outline how mobility should work, best if inter-DU could work same way as intra-DU. Vivo agrees, and think RS and TCI state nee to be known by the neighbor cell, think R3 can work on details. HW think R2 should reply what is feasible, can also mention what is currently supported. Xiaomi think we can confirm that these configurations are needed. Intel also kthink currently this is not supported but we can discuss what information is needed.

- ZTE think it is feasible that DUs ahs such information. Think RAN1 can ask RAN3 to provide such info.

- Nokia think that we want the serving DU want to configure measurements.

- QC think this is needed for inter-DU LTM, think this is not a big deal for RAN3. This is feasible.

- HW think that thei coordination could be F1 or OAM.

- Ericsson think RAN2 shouldn’t reply at all to this LS.

- Lenovo think source always configures measuerement, then on RS configuration

- FW think that also CU need to be involved, i.e. need to know the candidate.

- Apple and vivo think the discussion is very RAN3 ish

* RAN2 assumes that LTM (intra DU and inter DU) is network-controlled mobility where the control is from the source, i.e. measurements (L1 measurements) are configured in the UE from the source Cell, and the decision to switch cell is by the source cell, and enhancements considered for LTM before cell switch, e.g. pre-synchronization, TA handling, target beam mgmt (to the extent it is supported) may be by the source cell. RAN2 understands that this may require cooperation source DU CU target DU and/or OAM coord. RAN2 don’t see any blocking issue to share information between DUs but the support of this is in RAN3 domain. RAN2 see no necessity for a direct inter-DU-interface to support this.

[R2-2211200](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211200.zip) [Draft] Reply LS on L1 measurement and configurations for L1L2-based inter-cell mobility CATT, Fujitsu LS out Rel-18 NR\_Mob\_enh2-Core To:RAN1, RAN3

Offline 037, revised LS out CATT

[R2-2212988](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212988.zip) Reply LS on L1 measurement and configurations for L1L2-based inter-cell mobility RAN2 LS out Rel-18 NR\_Mob\_enh2-Core To:RAN1, RAN3

* Approved

CR

[R2-2211780](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211780.zip) 38.300 running CR for introduction of NR further mobility enhancements MediaTek Inc. draftCR Rel-18 38.300 17.2.0 B NR\_Mob\_enh2-Core R2-2209255

Offline 032, review CR MTK

R2-2213292 38.300 running CR for introduction of NR further mobility enhancements MediaTek Inc. draftCR Rel-18 38.300 17.2.0 B NR\_Mob\_enh2-Core

[R2-2213332](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213332.zip) 38.300 running CR for introduction of NR further mobility enhancements MediaTek Inc. draftCR Rel-18 38.300 17.2.0 B NR\_Mob\_enh2-Core

DISCUSSION

- MTK explains that the agreements so far durign the meeting has been covered.

- Lenovo indicate that there was no time to check

* Endorsed as baseline for further update

### 8.4.2 L1L2 Triggered Mobility

#### 8.4.2.1 General and Stage-2

##### 8.4.2.1.1 Characteristics and Scenarios

Including Consolidation of expectations, what characteristic to enhance, elaborate on the components of the latency time line. Including further Specification of focus Scenarios. Including expectation of what characteristics may be addressed by other groups, if this need to be further discussed in RAN2.

[R2-2211194](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211194.zip) Enhancements on Latency Components for L1L2-triggered Mobility MediaTek Inc. discussion

MTK think that the main open issues in the time chart are:

- ASN1 decoding and validity check on receiving, i.e. RRC processing delay.

*Chair observes that this is implementation dependent and suggests to postpone this potential matter a cpl of meetings (until detailed functionality is better known).*

- TRS tracking and CSI RS measurements in the time chart?

*MTK think R1 is working on this, but no consensus. FFS if we reflect this in the time chart.*

- DL synch, R1 is working on this (MTK reports that R1 think this can be done before cell switch)

- UL synch / TA handling, R1 is working on this.

DISCUSSION

- Huawei think we could assume that RRC processing time should be very short and can be done in advance, or at cell switch time for UE implementations that can do this very fast (i.e. wo delay impact). Ericsson agrees.

- Apple think that it may not be clear to other groups that the UE may have more than one candidate target cell, so this may be restricted by UE caps. LG wonder if we would need some additional functionality to use the UE caps efficiently (subset of candidate cells?)

- Nokia think R2 shall focus on ASN1 decoding etc. Ericsson agrees.

*Chair: the time chart seems to be in fairly good shape, this AI may be merged into a general AI next meeting.*

[R2-2212815](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212815.zip) Discussion on potential aspects for enhancement on LTM Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211484](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211484.zip) Improve Handover Performance with LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212068](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212068.zip) LTM target performance enhancement Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211459](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211459.zip) Discussion on latency model of L1 L2 mobility Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211254](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211254.zip) Open issues on Characteristics and Scenarios CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211520](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211520.zip) Discussion on RACH-less Handover for L1/L2 Triggered Mobility Rakuten Symphony discussion

[R2-2211711](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211711.zip) Dissecting the UE processing for RRC LTM config Apple discussion NR\_Mob\_enh2-Core

[R2-2211985](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211985.zip) The scenarios supported for LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212245](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212245.zip) Characteristics and scenarios of LTM Qualcomm Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212261](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212261.zip) Further Analysis on Interruption Time Reduction in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212291](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212291.zip) LTM characteristics and scenarios Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212553](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212553.zip) Further Considerations on Expectation of Enhancement for LTM ZTE Corporation,Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212555](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212555.zip) Remaining issues for Characteristics and Scenarios of LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212706](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212706.zip) Considerations on characteristics and scenarios CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212755](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212755.zip) Discussion on TA of candidate cells for LTM LG Electronics Inc. discussion Rel-18 NR\_Mob\_enh2-Core

R2-2211519 Performance Enhancements for L1/L2 Triggered Mobility Rakuten Symphony discussion Late

##### 8.4.2.1.2 Procedure Descriptions

Procedure descriptions on pre-Stage-2 level, e.g. to describe to other groups what is intended (e.g. SA3, RAN1, RAN4, RAN3).

[R2-2211202](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211202.zip) On Procedure Descriptions CATT discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

Figures

- HW think that RAN3 is working on the TP including DU and CU. HW think that RAN2 flow should include cells etc. rather than CUDU

- LGE think the messages assume RRC reconfiguration model 1. Chair think we can replace the names to something neutral

P1

- IDT think that preparation goes on all the time. MTK agrees, and think we can call this LTM prep maintenance. MTK would like to include presynch somewhere. ZTE think that the first two can be combined and

- ZTE think we need presynch.

- Nokia also think we should reuse phases from legacy HO.

P2P3

- Ericsson think these have been agreed already.

P456 on TA

- Lenovo think that RAN2 will need to specify procedures for early TA.

- FW think R1 has agreed PDCCH ordered RACH so far.

- Chair think R2 will just wait for R1 progress.

- HW think that we can just indicate fuzzy in the procedure, as we don’t have info from R1 yet.

* Include a procedure in the MTK stage-2 offline (e.g. acc to proposal and comments)

[R2-2211485](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211485.zip) Procedure of L1/2 Triggered Mobility vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212437](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212437.zip) Description of overall LTM procedure Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211195](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211195.zip) Procedures of L1L2-triggered Mobility MediaTek Inc. discussion

[R2-2211460](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211460.zip) Procedure descriptions of LTM Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211467](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211467.zip) Early TA work in R1 R2 R3 and R4 Lenovo discussion NR\_Mob\_enh2-Core

[R2-2211641](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211641.zip) Procedure descriptions of LTM procedure Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211652](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211652.zip) Performance Enhancements for L1/L2 Triggered Mobility Rakuten Symphony discussion

[R2-2211793](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211793.zip) Discussion on overall procedure for LTM ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211861](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211861.zip) Discussion on general pocedure for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211986](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211986.zip) The expected RAN3 impacts Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212262](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212262.zip) Considerations on LTM Procedure Description Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212292](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212292.zip) LTM Overall Procedure Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212707](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212707.zip) Considerations on procedure of LTM CMCC discussion Rel-18 NR\_Mob\_enh2-Core

#### 8.4.2.2 RRC

Including solutions focused on RRC, e.g. continuation of RRC modelling discussion, to what extent / how a candidate configuration is “maintained”, issues, and options related to support of candidate configuration being a Delta Configuration.

WID: Configuration and maintenance for multiple candidate cells to allow fast application of configurations for candidate cells [RAN2, RAN3].

[R2-2212438](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212438.zip) Qualitative analysis on what to include in the RRC model for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

- MTK think this is a good way.

- FW wonder where L1 measurements are included. Apple think it is important to separate the candidates and the measurement config.

- ZTE don’t want to agree all these. What about radio bearer config. Ericsson think we need to have SRB3 in some configs.

- vivo think RB config can be split, such that only SRB3 reconfiguraiton is supported.

* P1 RAN2 to confirm that the CellGroupConfig IE is (mandatory) needed within an LTM candidate cell configuration.
* P3 The RadioBearerConfig IE can be optionally supported in an LTM candidate configuration
* P5 The MeasConfig IE can be optionally supported in an LTM candidate configuration.
* P8 The OtherConfig IE is not required to be part of the LTM candidate cell configuration.
* P9 The LTM candidate cell configuration should be designed as a To AddMod/ToRelease structure.
* P10 The LTM candidate cell configuration ASN.1 structure comprises at least a CellGroupConfig IE and a configuration ID.

Chair: We Attempt to decide further at next meeting.

[R2-2211456](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211456.zip) Discussion on configurations for multiple candidate cells of L1 L2 mobility Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

- HW think we need to consider RRC TS and gNB Arch

- LG think model 2 is better, when we store multiple we can optimize the structure better.

- vivo think we need to decide what IEs are included.

- QC think model 1 and 2 are equivalent, think RRC reconfiguration is easier.

- Ericsson did an excersize to impl Model 1, and there are some procedural differences anyway, would prefer a new subclause anyway for LTM, and also Ericsson think that with model 2 we can pack a number of CGconfigs in one message.

- Nokia think we shouldn’t choose so easily. Think we dont gain much in size.

- Xiaomi think that model 1 allows a lot more

**On Delta Configuration**

* A UE stores the reference configuration as a separate configuration.
* The reference configuration is managed separately

[R2-2211864](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211864.zip) Discussion on configuration related issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212263](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212263.zip) Considerations on RRC Configuration in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211196](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211196.zip) RRC Aspects of L1L2-triggered Mobility MediaTek Inc. discussion

[R2-2211203](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211203.zip) Discussion on RRC Aspects for LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211486](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211486.zip) Configurations of Candidate Cell for LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211498](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211498.zip) Configuration maintenance and update for subsequent HOs Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211708](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211708.zip) Conditional handover for L2/L1 mobility Apple discussion NR\_Mob\_enh2-Core

[R2-2211794](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211794.zip) Discussion on candidate cell configuration and maintenance ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211846](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211846.zip) RRC aspects of L1/L2 triggered mobility Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212028](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212028.zip) RRC configuration for LTM Lenovo discussion Rel-18

[R2-2212069](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212069.zip) Configuration of candidate target configurations (pre-configurations) for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212167](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212167.zip) Discussion on RRC configuration for L1L2 triggered mobility Spreadtrum Communications discussion Rel-18

[R2-2212246](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212246.zip) RRC Aspects of LTM Qualcomm Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212293](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212293.zip) RRC Support for LTM Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212435](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212435.zip) Discussion on RRC aspects for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212538](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212538.zip) Discussions on RRC aspects in LTM NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212556](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212556.zip) RRC Configurations of LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212599](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212599.zip) RRC Modeling for Candidate Cells in LT Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212654](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212654.zip) Discussion on RRC configurations of LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212708](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212708.zip) Considerations on RRC related issue CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212918](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212918.zip) Signaling structure and handling of candidate cells upon LTM LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

#### 8.4.2.3 Cell Switch

Including Candidate solutions focused on dynamic cell switch not addressed by the RRC subclause above. Settle expectations for what shall happen at the cell switch in the different scenarios and consolidate what information is required to be provided. Discussion can inculde actions and procedure that may be triggered simultaneously, e.g. by other MAC CEs.

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]

Cell switch

[R2-2211487](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211487.zip) Trigger and Execution of LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P3 – discuss reset later

P1

- MTK supports P1, and think DCI should not be used for cell switch. Can consider DCI vs MAC CE for beam indication.

- Ericsson support

- IDT agrees with the intention.

P2

- FW wonder if this is really known, HW think this is not part of MAC CE, think it is better part of RRC config if supported. HW think target manages this resource. Ericsson think this should be RRC.

- Nokia are not ok to agree this now. Not sure status info is needed.

- Samsung think this proposal is about validity of resources, can also have a validity timer.

- ZTE think it is too early to discuss this.

- Lenovo think that the UE can acquired early TA, and then no need for RA resource. Intel agrees, and we need to discuss more.

- OPPO think we can use same as for CHO.

- Apple think we should think about subsequent LTM, also will it be the same for intra-DU and Inter-DU

P3

- IDT think that MAC reset RLC reset PDCP recovery etc can be controlled by RRC config. IDT think e.g. DU ID could be used to understand whether to reset or not. Ericsson think this is difficult. MTK agrees with Ericsson, Nokia SS and. FW think RRC config is enough.

- Intel think we should avoid MAC CE info if we can.

- LG think both ways can work

- QC think we can agree to have an indication.

- Xiaomi think this is to allow same configuration for intra DU inter DU.

- VDF agrees that this is better by RRC.

- HW think this need to be controlled per bearer, which is a lot of overhead and it is possible to have this by RRC. Vivo explains that the intention is not to trigger per bearer.

- IDT think that if the use case is only intra- inter-DU kjthen RRC can work ´

- HW think that dynamic detemintation by MAC CE required dynamic coord

P4P5

- Ericsson think this depends on the model.

- IDT wonder what will happen at timer expiry-

- Lenovo think this is needed, but the timer may need to be set differently for different cases, e.g. dep on whether the UE has TA ot not

* The MAC CE agreed to carry LTM related information for cell switch is used for LTM triggering of the cell switch.
* LTM cell switch is supervised by a timer
* UE arrival in the target cell need to be indicated (somehow)

ON the determination of whether to reset L2: two options on the table:

1. The UE determines whether the switch is intra DU or inter DU and the follows different rule or configuration for these two cases which controls whether to reset or not reset. Determination could be based on configuration (e.g. of a DU ID, cell group id etc)
2. The UE receives command to reset or not reset by Mac CE.

[R2-2211642](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211642.zip) Solutions to cell switch in LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211197](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211197.zip) Cell Switch in L1L2-triggered Mobility MediaTek Inc. discussion

MAC Reset

[R2-2211466](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211466.zip) Discussion on MAC partial reset KDDI Corporation discussion

DISCUSSION

- MTK think many things happen during MAC reset. Think that HARQ can continue if channel cond doesn’t change that much.

- vivo support P1 P2 and offline.

- Xiaomi think we should focus on reducing packet loss and mobility interruption.

- HW think that from TA we don’t know what to expect. Think that HARQ can work if the TB size is the same but difficult. ZTE think that HARQ buffer for src cell should be flushed. LG arees that HARQ flush is reasonable.

- Apple think there is one case that has more potential for enhancement than others: CA cell swap. VDF think we should first check the typical case.

Offline 033, attempt define (on a high level) what is partial reset, also determine if LS to R1 is needed. Assume intra-DU (as opposed to inter-DU). (vivo)

[R2-2213335](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213335.zip) Report of #033 on Partial MAC reset for intra-DU LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

*Proposal 2: Postpone the following aspects for the partial reset as it relies on the pre-sync design from RAN1:*

*- Whether to reset UL time alignment with target cell*

*- Whether to reset UL time alignment with source cell*

*Proposal 3: Some “high” MAC parts, which is not cell specific, could be considered for partial reset in intra-DU, FFS which parts below should be included, e.g.*

*- Keep the triggered BSR*

*- Maintain logical channel Bj value*

*- Maintain DL HARQ soft buffer*

*- Maintain NDI for UL HARQ processes*

*- Not cancel Triggered Recommended bit rate query procedure*

DISCUSSION

- vivo reports that companies views are split so difficult to progress details

- consensus that thie kind of reset can be common for all intra-DU cases.

- Apple think the proposals here is a good baseline for next meeting.

- Ericsson agrees but think we don’t need to agree any more proposal explicitly.

- P2 is ok to LG, but with P3 LG think nothing need to be agreed

- VDF think indeed this may be postponed think this is related to lower MAC and upper MAC.

- Nokia think the list in P3 is good, and the spreadsheet

* RAN2 to have the mindset to have a common design for partial MAC reset for different cell change cases in intra-DU scenario (as far as reasonable)

[R2-2213336](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213336.zip) Potential Partial MAC Reset for intra-DU LTM vivo, MediaTek, Xiaomi discussion Rel-18

* Noted
* The summary in [R2-2213336] could be considered as the starting point for partial reset in intra-DU.

[R2-2211393](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211393.zip) MAC\_RLC Reset and BWP Handling for LTM Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

Security

[R2-2212865](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212865.zip) Discussion on security issue in cell switch NTT DOCOMO INC. discussion Rel-18

Observation 1: Security issues such as PCI leakage can occur when using L1/L2 signalling in L1 measurement report or LTM trigger command.

Proposal 1: Security issues can be avoided by using a common temporary cell index between UE and network.

Proposal 2: RAN2 further study the integrity protection of L1L2 signalling based measurement report or mobility command.

DISCUSSION

- Xiaomi think such concern is valid, maybe we can have a guidance that we shall not have PCI in L1 or L2 signalling.

- IDT agrees, and think indeed we indicate RRC configured IDs.

- MTK think we have agreed to signal index not PCI, think we can prohibit.

- Apple think the concern is the index, think a man in the middle attack can be done, think the indexes should not be enough.

- Ericsson think we should clarify that RRC configuration is security protected. Ericsson think indeed a false base-station can mimic not sure this is an issue.

- QC think false BS or man in the middle is not the main issue.

- SS think for P1 there is no L1 L2 signalling containing PCI.

- Nokia think as long as we use RRC for the PCI there is no issue

- Intel think we should not ask SA3 to protect MAC.

- Proposed: Permanent Identities such as PCI will not be used in L1 L2 signalling, instead L1 L2 signalling will use temporary identities configured by RRC.

- Lenovo are ok with the proposal.

- LG think a UE can be traced by looking for patterns.

* Permanent Identities such as PCI will not be used in L1 L2 signalling, instead L1 L2 signalling will use temporary identities configured by RRC.

- Chair wonders if we should send an LS for information to SA3, attaching the work-in-progress CR. Nokia think we should wait, we don’t have sufficiently details information yet. Ericsson agrees that we can wait. Lenovo too

- Lenovo would not like IP and ciphering in MAC. QC think we can wait.

- Chair think IP and ciphering in MAC would create significant work load and that we should do that only if really needed.

- Apple think MAC CE is not protected but this is a new case. HW think that even if a MAC CE can be falsely sent, what can go wrong. QC also think this is not needed.

- Chair: no LS to SA3 now, too early

General

[R2-2211204](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211204.zip) Discussion on Dynamic Switch Mechanism CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211457](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211457.zip) Discussion on MAC related enhancements for LTM Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211499](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211499.zip) Discussion on dynamic cell switch for L1L2 Mobility Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211707](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211707.zip) Viewing SpCell/SCell dynamic switch as an intra-DU L2/L1 handover Apple discussion NR\_Mob\_enh2-Core R2-2209786

[R2-2211709](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211709.zip) DU aspects for LTM and MAC CE contents Apple discussion NR\_Mob\_enh2-Core

[R2-2211795](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211795.zip) Discussion on dynamic cell switch ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211810](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211810.zip) Discussion on L1L2-triggered mobility ASUSTeK discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211847](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211847.zip) Cell switch for L1/L2 triggered mobility Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211862](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211862.zip) Discussion on measurement related issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211863](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211863.zip) Open issues on dynamic switching for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211886](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211886.zip) Discussion on L2 reset for subsequent LTM NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211987](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211987.zip) Discussion on the cell switch procedure Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212166](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212166.zip) Discussion on L1L2 triggered mobility Spreadtrum Communications discussion Rel-18

[R2-2212247](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212247.zip) Dynamic cell switch Qualcomm Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212264](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212264.zip) Considerations on Cell Switch Triggering in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212294](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212294.zip) LTM trigger Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212436](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212436.zip) Discussion on the execution of LTM cell switch Ericsson discussion Rel-18

[R2-2212539](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212539.zip) Procedure aspect of cell switch NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212546](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212546.zip) Discussion on dynamic cell switch LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212557](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212557.zip) Cell Switch for LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212600](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212600.zip) Considerations on the Cell Switch for LTM Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212709](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212709.zip) Considerations on cell switch CMCC discussion Rel-18 NR\_Mob\_enh2-Core

### 8.4.3 NR-DC with selective activation cell of groups

Consolidate the aspects to improve, and identify candidate solutions.

[R2-2212103](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212103.zip) Discussion on configuration management and procedure aspects of selective activation Nokia, Nokia Shanghai Bell discussion Rel-18

Chair wonders if we need a name

- Proposal: SAPC Selective activation of PSCell change.

- Ericsson think we don’t need a name

- Lenovo think a name is useful, how about selective activation of PScell (SAP).

- HW think this was intended to be cell group, not PScell.

- MTK think we can use a name Conditional Selective Cell Group. CATT explain that this is their proposal. QC think we don’t need conditional.

- HW prefer subsequent CPA, CPC .. vivo agrees.

Chair: didn’t converge, we decide on naming next meeting.

[R2-2212070](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212070.zip) NR-DC selective activation of SCG Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION on the two docs above

Sec

- VDF think indeed we can ask SA3.

- Intel think SA3 will differentiate between activate deactivate and configure / release

- MTK support to ask SA2, LG also agrees.

- QC think we should agree that for every intra SN Pscell change no change of keys, and thus count intra-SN and inter-SN separately. Apple agrees

- FW think that for inter-node.

- vivo think we can just ask SA3 whether reuse is ok. Agrees w QC

- Lwnovo thin that nonchange of keys is ok if we keep HFN.

- IDT think that we just ask questions to SA3. ZTE agrees, and think we ask about UE returning to a previous cell.

- Lenovo wonder if the UE even knows that he returns to previous SN.

Delta

- MTK think the reference should be the current config. IF further improvement then can use LTM, agree with Huawei

- LG agree to non-nested configurations.

- Apple think that from internode exchange the reference config need to be solid.

- FW also tjink current config sholdl be the reference, agree that we can have commonality w LTM

- Lenovo think the source config can be a baseline.

- IDT think successive mobility doesn’t work if current config is used as baseline. Xiaomi think current config is an issue, as reference config may then be freq updated

- Nokia think both options would work, if the candidates modify the same parameter

- Chair: Could we agree the following: For successive mobility with delta config, could work with either separate reference config, or based on a current config (but then under conditions, e.g. that all candidate delta configs modify the same)

- Ericsson think it would be safer to have a separate configuration.

- VDF think that it would be good to be able to use the same config for CPC CPA etc.

- QC think that an initial configuration can be a baseline. Lenovo think this can work. Ericsson think that the saved configuration need to be indicated.

Scenario

- LG would like to consider both scenarios. Intra SN inter SN. Apple agrees, IDT agrees.

- ZTE has some sympathy with this but don’t want to restrict

- Chair: Seems not possible to agree to prioritize or limit.

Other items

- Lenovo think that in addition measurements need to be considered. UE should not measure everything all the time

**Delta configuration**

* A UE stores the reference configuration as a separate configuration.
* The reference configuration is managed separately

Offline 039, LS to SA3 asking about UE comes back to previous SN, can we use the same sk counter? (HW)

[R2-2213334](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213334.zip) LS on security for selective SCG activation Huawei, HiSilicon LS out Rel-18 NR\_Mob\_enh2-Core To:SA3

- Lenovo wonder how the UE can know that these are the same/different SN?

- HW think the UE doesn’t know. IDT agrees and the UE doesn’t need to know.

- Lenovo propose to add that the UE currently cannot identify which SN it is connected to.

- Apple think we should indicate that we may have solutions in RAN2.

- Ericsson think we don’t need to indicate solutions.

- Intel think that we don’t need to add solution info

- QC think we should ask about governing principles

* Remove: “the order in which the sk-counter values are used upon successive S-KgNB change depend on the order in which PSCells are selected by the UE (i.e. the sk-counter value used is not monotonically incremented as specified in TS 33.501).”
* Remove: - the other security input e.g., HFN, Bearer, Direction etc. may be reused e.g., when HFN is reset to 0 e.g., due to refresh of S-KgNB.
* Change last paragraph in actions into: “If SA3 consider the existing handling of sk-counter/ S-KgNB in the above scenarios not acceptable, RAN2 kindly asks SA3 to provide requirements for a solution.”
* With these changes the LS out is approved, in R2-2213337

[R2-2212502](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212502.zip) Selective Cell Group Activation LG Electronics Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212467](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212467.zip) NR-DC with selective activation Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211205](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211205.zip) Discussion on Selective Activation of Cell Groups in NR-DC CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211458](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211458.zip) Discussion on selective activation of cell groups Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211796](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211796.zip) Discussion on NR-DC with selective activation of the cell groups ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211710](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211710.zip) A sample Reference Config approach that also solves security reuse Apple discussion NR\_Mob\_enh2-Core

[R2-2211488](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211488.zip) Discussion on NR-DC with selective activation cell of groups vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212483](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212483.zip) Selective activation of cell groups in NR-DC Qualcomm Incorporated discussion Rel-18

[R2-2211865](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211865.zip) Discussion on selective activation of SCGs for NR-DC OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212022](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212022.zip) Discussion on SCG selective activation Lenovo discussion Rel-18

[R2-2212160](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212160.zip) Discussion on NR-DC with SCG selective activation Spreadtrum Communications discussion Rel-18

[R2-2212601](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212601.zip) Considerations on Subsequent CPAC after SCG Change Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212655](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212655.zip) Discussion on NR-DC with selective activation of the cell groups Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212671](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212671.zip) Discussion on selective SCG activation MediaTek Inc. discussion NR\_Mob\_enh2-Core R2-2210516

[R2-2212540](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212540.zip) Discussions on selective SCG activation NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212620](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212620.zip) Discussion on NR-DC with selective activation cell of groups CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212822](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212822.zip) Discussion on NR-DC with selective activation of the cell groups DENSO CORPORATION discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212407](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212407.zip) Selective activation of cell groups InterDigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212558](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212558.zip) Discussion of selective activation Sharp discussion Rel-18 NR\_Mob\_enh2-Core

### 8.4.4 CHO including target MCG and candidate SCGs for CPC/CPA in NR-DC

[R2-2212408](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212408.zip) CHO with associated SCG InterDigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211866](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211866.zip) Discussions on CHO including target MCG and candidate SCGs OPPO discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION on the two docs above

- LG think OPPO proposals can be the basline. Objective says that CHO contains CPC/CPA

- LG wonder for IDT tdoc if multiaccess is an new condition.

- MTK think MCG is the target and think SCGs are just candidates, thus OPPO should be the baseline.

- Ericsson support OPPO proposal, think the parallel case can be very complex, and also not much gain, could be upda to UE impl whether the UE can start evaluate.

- HW think IDT is the intention, think the network simply control by conditions. Apple think IDT proposal is progressive, think both can be done in parallel. Vivo agrees, and think there are benefits and doesn’t need to be complex. Intel think evaluation can be in parallel, but execution cannot be in parallel.

- VDF support OPPO as baseline. ZTE also support OPPO, minimal TS impact. Xiaomi also support OPPO as baseline, to minimize workload.

- ZTE and MTK think we can start wit OPPO as baseline, and the support parallel eval if possible.

- QC think we can start with sequential evaluation, can also do parallel evaluation, not that complex.

- Nokia think that if sequentially then long delay, don’t understand what is so complex.

- CATT think that this objective is to increase the UE thoughput, think sequential eval too slow.

- CMCC support parallel evaluation.

- OPPO wonder if parallel evaluation is feasible. How can UE know how to evaluate the condition.

- IDT explains think that with parallel evaluation the CHO ? CPAC are executed on this order.

- Ericsson think that the UE doesn’t have to release and SCG. Can keep SCG and evaluate CPC after CHO.

- LG think parallel evaluation indeed involves first CHO then CPC.

- Apple think that if UE doesn’t have a SN already then there is a difference.

- MTK would like to echo Ericssons comment that UE can keep SCG

- Apple think parallel or sequential evaluation also has dependency to UE configuration, how the evaluation conditions become available to the UE – separate config.

- Samsung wonder how this works if the conditions are fulfilled together, think this can be done at the same time.

- Chair think anyway that with the understanding on same execution order the difference between parallel or sequential evaluation might be small.

* Execution order: the UE doesn’t execute CPC/CPA unless CHO condition is fulfilled (regardless parallel or sequential evaluation)

[R2-2211489](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211489.zip) Discussion on CHO with CPAC vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211643](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211643.zip) CHO including candidate SCGs for CPC/CPA Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211206](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211206.zip) Discussion on CHO including target MCG and candidate SCGs CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212265](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212265.zip) On Conditional Handover with Candidate SCGs for CPAC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212468](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212468.zip) CHO with candidate SCGs Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212664](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212664.zip) Discussion on CHO with candidate SCG MediaTek Inc. discussion NR\_Mob\_enh2-Core

[R2-2211797](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211797.zip) Discussion on CHO with candidate SCGs ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212656](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212656.zip) Discussion on CHO including target MCG and candidate SCGs for CPAC Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212818](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212818.zip) Considerations on CHO with CPA/CPC Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2211461](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211461.zip) Discussion on CHO including candidate SCGs Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212479](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212479.zip) CHO including target MCG and multiple target SCGs Qualcomm Incorporated discussion Rel-18

[R2-2212029](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212029.zip) Analysis on CHO with candidate SCG Lenovo discussion Rel-18

[R2-2212161](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212161.zip) Discussion on CHO with CPAC in NR-DC Spreadtrum Communications discussion Rel-18

[R2-2212503](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212503.zip) Discussion on CHO with CPAC LG Electronics Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2212633](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212633.zip) Discussion on CHO including target MCG and candidate SCGs for CPC/CPA CMCC discussion Rel-18 NR\_Mob\_enh2-Core

## 8.5 XR Enhancements for NR

(FS\_NR\_XR\_enh; leading WG: RAN2; REL-18; WID: RP-220285)

Time budget: 2 TU

Tdoc Limitation: 7 Tdocs

### 8.5.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, draft TR)

[R2-2211138](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211138.zip) LS on XR and Media Services (S2-2209979; contact: vivo) SA2 LS in Rel-18 FS\_XRM, FS\_NR\_XR\_enh To:RAN1, RAN2, RAN3

[R2-2211490](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211490.zip) Reply LS to SA2 on XR vivo LS out Rel-18 FS\_NR\_XR\_enh To:SA2 Cc:RAN1, RAN4

[R2-2211595](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211595.zip) Work Plan for Rel-18 SI on XR Enhancements for NR Nokia, Qualcomm (Rapporteurs) Work Plan Rel-18 FS\_NR\_XR\_enh

[R2-2211596](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211596.zip) SA2 Status for XR Nokia, Qualcomm (Rapporteurs) discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212189](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212189.zip) Discussion on network exposure of congestion level of RAN node Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

R2-2212908 TR 38.835 v031 Nokia (Rapporteur) draft TR Rel-18 38.835 0.3.1 FS\_NR\_XR\_enh

### 8.5.2 XR-awareness

No documents should be submitted to 8.5.2. Please submit to 8.5.2.x

Contributions should take the existing SA2/SA4 decisions into account.

#### 8.5.2.1 PDU sets and data bursts

Including discussion on how PDU sets can be mapped to DRBs and how the LCH configuration works.

Including discussion on “traffic flow without PDU set” and how does that fit in with XR traffic awareness (e.g. is it only pose control)?

[R2-2211177](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211177.zip) Discussions on PDU Sets Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211378](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211378.zip) DRB mapping for XR specific requirement Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211436](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211436.zip) XR awareness for PDU sets and bursts CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211437](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211437.zip) On the PDU set mapping options CATT discussion FS\_NR\_XR\_enh

[R2-2211491](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211491.zip) Discussion on XR awareness and per-QoS flow/DRB congestion vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211524](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211524.zip) PDU set to DRB mapping for XR ZTE Corporation, Sanechips discussion

[R2-2211584](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211584.zip) Discussion on QoS support with PDU Set granularity Xiaomi Communications discussion

[R2-2211597](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211597.zip) Mapping of PDU Set, QoS Flow and DRB Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211718](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211718.zip) PDU Set based QoS Apple discussion FS\_NR\_XR\_enh

R2-2211829 Discussions on L2 structure of XR Fujitsu discussion Rel-18 FS\_NR\_XR\_enh Withdrawn

[R2-2211848](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211848.zip) Discussions on L2 structure of XR Fujitsu discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211957](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211957.zip) Discussion on PDU Set awareness OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211995](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211995.zip) Discussion on PDU sets mapping model NTT DOCOMO, INC. discussion Rel-18

[R2-2212039](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212039.zip) Discussion on PDU sets and data burst awareness in RAN Lenovo discussion Rel-18

[R2-2212163](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212163.zip) Discussion on PDU sets and data bursts Spreadtrum Communications discussion Rel-18

[R2-2212188](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212188.zip) Further discussion on PDU set handling Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212329](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212329.zip) Discussion on PDU Sets and Data Bursts for XR Google Inc. discussion

[R2-2212471](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212471.zip) Discussion on PDU sets and data bursts InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212534](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212534.zip) Discussion on PDU Set for XR-awareness NEC Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212608](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212608.zip) Discussion on Uplink XR-Awareness for XR services Meta USA discussion Rel-18

[R2-2212649](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212649.zip) Discussion on PDU set to DRB mapping Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212695](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212695.zip) Discussion on PDU set mapping for XR-awareness III discussion FS\_NR\_XR\_enh

[R2-2212704](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212704.zip) Considerations on PDU sets and Data bursts in RAN CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212852](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212852.zip) Discussion on XR awareness and PDU Set LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212889](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212889.zip) Discussion on PDU Sets and Data Burst Ericsson discussion Rel-18 FS\_NR\_XR\_enh

#### 8.5.2.2 PDU prioritization

Including discussion on whether PDU prioritization is needed for XR traffic, and how should it work, e.g. whether there are impacts to LCP mechanism, how does the PDU set importance work, etc.

[R2-2211178](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211178.zip) Discussion on PDU prioritization Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211379](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211379.zip) Enhancements to provide differentiated XR handling Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211438](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211438.zip) Considerations on PDU Prioritization CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211492](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211492.zip) Discussion on PDU prioritization for XR awareness vivo discussion Rel-18 FS\_NR\_XR\_enh R2-2209486

[R2-2211526](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211526.zip) PDU-set prioritization for XR ZTE Corporation, Sanechips discussion

[R2-2211585](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211585.zip) Discussion on traffic prioritization of XR traffic Xiaomi Communications discussion

[R2-2211598](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211598.zip) LCP Impacts for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211719](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211719.zip) Enhancements for Traffic Prioritization in XR Apple discussion FS\_NR\_XR\_enh

[R2-2211923](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211923.zip) Considerations on XR PDU prioritization Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211958](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211958.zip) Discussion on PDU prioritization OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212130](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212130.zip) Discussion on PDU prioritization Lenovo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212190](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212190.zip) Discussion about XR-awareness impacts on LCP Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212205](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212205.zip) Discussion on LCP impact Samsung discussion Rel-18 FS\_NR\_XR\_enh R2-2210013

[R2-2212330](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212330.zip) Discussion on PDU prioritization Google Inc. discussion

[R2-2212472](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212472.zip) Discussion on PDU prioritization InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212703](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212703.zip) Impact on PDU Prioritization by XR Awareness CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212759](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212759.zip) Discussion on the prioritization for XR LG Electronics Inc. discussion FS\_NR\_XR\_enh

[R2-2212888](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212888.zip) Discussion on PDU Prioritization Ericsson discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212899](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212899.zip) On potential impacts to LCP mechanisms for XR Futurewei discussion Rel-18 FS\_NR\_XR\_enh

#### 8.5.2.3 PDU discard

Including discussion on how to handle PDU discarding of XR traffic, e.g. do we need new discard timers, how to handle PDU discard in PDCP and/or RLC, etc.

[R2-2211179](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211179.zip) Discussion on PDU discard Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211380](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211380.zip) Packet discard for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211439](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211439.zip) PDU Discard of XR services CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211493](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211493.zip) Discussion on PDU discard for XR awareness vivo discussion Rel-18 FS\_NR\_XR\_enh R2-2209487

[R2-2211525](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211525.zip) PDU-set discard functionality for XR ZTE Corporation, Sanechips discussion

[R2-2211587](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211587.zip) Discussing on PDU discarding of XR traffic Xiaomi Communications discussion

[R2-2211599](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211599.zip) PDU Discard for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211720](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211720.zip) Packet Discarding and Reordering Enhancements for XR Apple discussion FS\_NR\_XR\_enh

[R2-2211859](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211859.zip) On PSDB and PDU discard MediaTek Inc. discussion Rel-18 FS\_NR\_XR\_enh R2-2210650

[R2-2211924](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211924.zip) Considerations on XR PDU discard Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211959](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211959.zip) Discussion on PDU discard OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211993](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211993.zip) Discussion on PDU discard NTT DOCOMO, INC. discussion Rel-18

[R2-2212098](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212098.zip) PDU Set and PDCP Discard Handling Samsung R&D Institute India discussion Rel-18

[R2-2212129](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212129.zip) Discussion on PDU discarding Lenovo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212164](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212164.zip) PDU discard of XR traffic Spreadtrum Communications discussion Rel-18

[R2-2212191](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212191.zip) Discussion on PDU discarding for XR traffic Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212331](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212331.zip) Discussion on PDUs Discarding Google Inc. discussion

[R2-2212473](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212473.zip) Discussion on PDU discard InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212537](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212537.zip) Discussion on PDU discard for XR awareness NEC Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212582](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212582.zip) Discussion on PDU Discard Meta USA discussion Rel-18

[R2-2212702](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212702.zip) Considerations on PDU Discarding of XR Traffic CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212758](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212758.zip) Discussion on the discard and retransmission LG Electronics Inc. discussion FS\_NR\_XR\_enh

[R2-2212887](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212887.zip) Discussion on PDU Discard Ericsson discussion Rel-18 FS\_NR\_XR\_enh

### 8.5.3 XR-specific power saving

No documents should be submitted to 8.5.3. Please submit to 8.5.3.x

#### 8.5.3.1 DRX enhancements

Including discussion on how DRX can be configured for XR, how to switch between DRX configurations and how does that impact power saving.

Including discussion on whether/what RAN2 needs for the non-integer DRX periodicity.

Including discussion on whether XR requires multiple DRX configurations active at the same time.

[R2-2211180](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211180.zip) DRX enhancements for XR Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211278](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211278.zip) Further discussion on C-DRX enhancements for XR Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211297](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211297.zip) Discussion on CDRX enhancement for XR service OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211298](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211298.zip) Discussion on CDRX enhancement for Power saving OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211381](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211381.zip) C-DRX enhancements for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211426](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211426.zip) Considerations on XR jitter handling KDDI Corporation discussion FS\_NR\_XR\_enh

[R2-2211440](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211440.zip) Enhancements for XR Power Saving CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211494](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211494.zip) Discussion on DRX enhancements for XR power saving vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211529](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211529.zip) DRX enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2211588](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211588.zip) Discussing on XR-specific C-DRX enhancements Xiaomi Communications discussion

[R2-2211715](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211715.zip) DRX Enhancements for XR Apple discussion FS\_NR\_XR\_enh

[R2-2211775](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211775.zip) DRX enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211860](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211860.zip) C-DRX enhancements for XR MediaTek Inc. discussion Rel-18 FS\_NR\_XR\_enh R2-2210651

[R2-2211925](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211925.zip) Considerations on XR specific C-DRX power saving enhancements Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212040](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212040.zip) Discussion of DRX enhancement Lenovo discussion Rel-18

[R2-2212237](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212237.zip) Candidate solutions on C-DRX enhancement NEC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212249](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212249.zip) On DRX enhancements for handling non-integer traffic periodicity Futurewei discussion Rel-18 FS\_NR\_XR\_enh R2-2209502

[R2-2212332](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212332.zip) DRX Enhancement for XR Google Inc. discussion

[R2-2212474](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212474.zip) Discussion on DRX enhancements InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212579](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212579.zip) DRX enhancement for power saving in XR LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212631](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212631.zip) Discussion on DRX enhancements CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212770](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212770.zip) C-DRX enhancements for XR-specific power saving DENSO CORPORATION discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212812](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212812.zip) Discussion on power saving scheme for XR Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212886](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212886.zip) Discussion on DRX enhancements Ericsson discussion Rel-18 FS\_NR\_XR\_enh

#### 8.5.3.2 Other enhancements

Including discussion on how traffic and QoS related information on uplink traffic should be provided to RAN for UE power savings.

[R2-2211181](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211181.zip) Non-DRX power saving enhancements for XR Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211277](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211277.zip) Analysis on XR traffic characteristics for C-DRX enhancement Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211382](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211382.zip) Information in RAN for XR traffic and congestion Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211495](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211495.zip) Uplink XR Traffic Information for Power Saving vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211528](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211528.zip) Other Power Saving enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2211721](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211721.zip) PDU Set Parameters and Descriptors Apple discussion FS\_NR\_XR\_enh

[R2-2211776](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211776.zip) QoS related information in Uplink Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212041](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212041.zip) Discussion of other power saving enhancement Lenovo discussion Rel-18

[R2-2212171](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212171.zip) Discussion on power saving in XR Spreadtrum Communications discussion Rel-18

[R2-2212172](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212172.zip) Align the uplink and downlink transmission for XR Spreadtrum Communications discussion Rel-18

[R2-2212206](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212206.zip) Discussion on power saving impact of packet discard operation Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212475](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212475.zip) Discussion on other XR power enhancements InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212580](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212580.zip) Information on uplink traffic for power saving LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212632](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212632.zip) Discussion on Information for UE power saving CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212891](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212891.zip) Discussion on UL and DL traffic information for power saving Ericsson discussion Rel-18 FS\_NR\_XR\_enh

### 8.5.4 XR-specific capacity improvements

No documents should be submitted to 8.5.4. Please submit to 8.5.4.x

#### 8.5.4.1 Feedback enhancements

Including further discussion on how enhanced BSR works for XR (e.g. information needed, overhead, impact to capacity, etc.).

[R2-2211182](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211182.zip) UE feedback enhancements for capacity improvement Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211275](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211275.zip) BSR feedback enhancements for XR Dell Technologies discussion Rel-18 FS\_NR\_XR\_enh

R2-2211318 Discussion on multi-modal synchronization for XR TCL Communication Ltd. discussion Withdrawn

[R2-2211319](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211319.zip) Discussion on multi-modal synchronization for XR TCL Communication Ltd. discussion

[R2-2211383](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211383.zip) Enhancements to Buffer Status Reporting for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211394](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211394.zip) Discussion on BSR enhancements for XR Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211441](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211441.zip) Further consideration on BSR CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211496](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211496.zip) Discussion on feedback enhancements for XR-specific capacity improvements vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211530](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211530.zip) fFeedback enhancements for XR capacity ZTE Corporation, Sanechips discussion

[R2-2211590](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211590.zip) Discussing on UE feedback enhancements for XR capacity Xiaomi Communications discussion

[R2-2211600](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211600.zip) BSR for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211716](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211716.zip) Considerations for BSR Enhancements Apple discussion FS\_NR\_XR\_enh

[R2-2211926](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211926.zip) Considerations on BSR Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211960](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211960.zip) Discussion on feedback enhancement OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211975](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211975.zip) Discussion on BSR enhancement for XR-specific capacity improvement Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212139](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212139.zip) Discussion of UE feedback enhancements Lenovo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212173](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212173.zip) BSR enhancement on XR Spreadtrum Communications discussion Rel-18

[R2-2212235](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212235.zip) BSR enhancements for XR NEC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212318](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212318.zip) BSR enhancement for XR capacity MediaTek Inc. discussion Rel-18

[R2-2212476](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212476.zip) Discussion on XR-specific feedback enhancements InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212517](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212517.zip) Discussion on BSR enhancements Futurewei discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212636](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212636.zip) Enhancement on BSR for XR-specific capacity improvement CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212715](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212715.zip) Discussion on Feedback enhancements for XR-specific capacity improvements III discussion FS\_NR\_XR\_enh

[R2-2212771](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212771.zip) Discussion on UE feedback enhancements for XR capacity DENSO CORPORATION discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212783](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212783.zip) draft Reply LS on XR and Media Services on Network exposure Xiaomi Communications LS out Rel-18 FS\_XRM, FS\_NR\_XR\_enh To:SA2 Cc:RAN1, RAN3

[R2-2212787](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212787.zip) Discussion on BSR enhancement for delay information in XR LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212885](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212885.zip) Discussion on BSR enhancements Ericsson discussion Rel-18 FS\_NR\_XR\_enh

#### 8.5.4.2 Scheduling enhancements

Including discussion on scheduling enhancements to improve XR capacity.

Including discussion on RAN2 aspects of CG enhancements and UE assistance information for XR.

[R2-2211183](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211183.zip) Scheduling enhancements for capacity improvement Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211276](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211276.zip) CG scheduling enhancements for XR Dell Technologies discussion FS\_NR\_XR\_enh

[R2-2211384](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211384.zip) Scheduling enhancements for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211442](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211442.zip) Further consideration on XR-specific capacity improvement CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211497](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211497.zip) Discussion on scheduling enhancements XR-specific capacity improvements vivo discussion Rel-18 FS\_NR\_XR\_enh R2-2209491

[R2-2211527](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211527.zip) Scheduling enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2211592](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211592.zip) Discussing on XR-specific scheduling enhancements Xiaomi Communications discussion

[R2-2211601](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211601.zip) Capacity Enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211717](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211717.zip) Configured Scheduling and UE-Assistance Information for XR Apple discussion FS\_NR\_XR\_enh

[R2-2211927](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211927.zip) Considerations on XR specific capacity improvements Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211928](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211928.zip) UL Scheduling enhancement for XR traffic and evaluation results Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211952](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211952.zip) Discussion on SR configuration for XR uplink traffic transmission TCL Communication discussion Rel-18

[R2-2211961](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211961.zip) Discussion on scheduling enhancement OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212002](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212002.zip) Discussion on scheduling enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2212042](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212042.zip) Discussion of scheduling enhancement Lenovo discussion Rel-18

[R2-2212174](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212174.zip) Scheduling enhancement on XR Spreadtrum Communications discussion Rel-18

[R2-2212236](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212236.zip) UE assistance information for CG configuration at gNB NEC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212319](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212319.zip) Scheduling enhancement for XR capacity MediaTek Inc. discussion Rel-18

[R2-2212333](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212333.zip) Scheduling Enhancement for XR Google Inc. discussion

[R2-2212477](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212477.zip) Discussion on scheduling enhancements InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212637](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212637.zip) Enhancement on CG for XR-specific capacity improvement CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212650](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212650.zip) Discussion on UE Assistance Information for CG configuration Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212788](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212788.zip) Discussion on XR-specific Scheduling enahancement LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212890](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212890.zip) Discussion on Scheduling enhancements Ericsson discussion Rel-18 FS\_NR\_XR\_enh

[R2-2212936](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212936.zip) Discussion on scheduling enhancements NTT DOCOMO, INC. discussion Rel-18

## 8.6 IoT NTN enhancements

(xx-Core; leading WG: RAN1; REL-18; WID: RP-221806)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.6.1 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.

[R2-2211658](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211658.zip) IoT-NTN Agreements List Mediatek India Technology Pvt. report R2-2210368

### 8.6.2 Performance Enhancements

#### 8.6.2.1 HARQ enhancements

[R2-2211288](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211288.zip) On Disabling HARQ Feedback in IoT-NTN Mediatek Inc. discussion

[R2-2211311](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211311.zip) Discussion on the HARQ disabling in IoT NTN CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2211336](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211336.zip) Discussion on HARQ enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2211518](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211518.zip) Discussion on HARQ disabling for NB-IoT NTN Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh

[R2-2211549](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211549.zip) Remaining Issues on HARQ Feedback in IoT NTN Lockheed Martin discussion

[R2-2211578](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211578.zip) Enhancement for UL and DL HARQ processes Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2211833](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211833.zip) Discussion on HARQ enhancement for IoT NTN. Transsion Holdings discussion Rel-18

[R2-2212011](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212011.zip) Further discussion on HARQ enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212044](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212044.zip) Further considerations on HARQ enhancements for IoT NTN Lenovo discussion Rel-18

[R2-2212295](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212295.zip) Disabling HARQ feedback for IoT-NTN Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212487](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212487.zip) On HARQ enhancements for IoT NTN Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

[R2-2212618](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212618.zip) Discussion on the HARQ enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh

[R2-2212726](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212726.zip) Discussion on HARQ enhancements for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh

[R2-2212806](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212806.zip) Discussion on disabling of HARQ feedback Xiaomi discussion Rel-18

[R2-2212954](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212954.zip) R18 IoT NTN performance enhancement Ericsson discussion

#### 8.6.2.2 GNSS operation enhancements

Not treated at this meeting. No contributions expected

[R2-2211347](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211347.zip) Discussion on GNSS operation in connected mode OPPO discussion Rel-18 IoT\_NTN\_enh-Core

### 8.6.3 Mobility Enhancements

[R2-2212101](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212101.zip) Analysis on mobility enhancements for IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2212102](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212102.zip) Additional aspects for mobility enhancements for IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2212909](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212909.zip) Discussion on Mobility Enhancements of IoT NTN Turkcell discussion Rel-18

[R2-2212948](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212948.zip) Conditional Handover in IoT NTN Ericsson discussion

#### 8.6.3.1 Enhancements for neighbour cell measurements

[R2-2211289](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211289.zip) On Mobility Enhancements in IoT-NTN Mediatek Inc. discussion

[R2-2211312](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211312.zip) Enhancements for Neighbor Cell Measurements CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2211337](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211337.zip) Discussion on measurement enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2211412](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211412.zip) Discussion on neighbour cell measurements in IoT NTN Intel Corporation discussion Rel-18 IoT\_NTN\_enh

[R2-2211579](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211579.zip) Connected mode measurement trigger Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2211737](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211737.zip) Neighbour cell measurements before RLF for NB-IoT Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2211834](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211834.zip) Discussion on Enhancements for neighbour cell measurements Transsion Holdings discussion Rel-18

[R2-2212012](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212012.zip) Discussion on enhancements for neighbor cell measurements ZTE Corporation, Sanechips discussion IoT\_NTN\_enh-Core

[R2-2212045](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212045.zip) CONNECTED neighbour cell measurement for NB-IoT in NTN Lenovo discussion Rel-18

[R2-2212077](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212077.zip) Consideration on enhancements for the neighbour cell measurement Xiaomi discussion

[R2-2212238](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212238.zip) Enhancements for neighbour cell measurements NEC discussion Rel-18 IoT\_NTN\_enh

[R2-2212296](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212296.zip) Neighbour cell measurements before RLF Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212486](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212486.zip) Connected mode mobility enhancements for IoT NTN Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

[R2-2212619](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212619.zip) Discussion on enhancements for neighbour cell measurements CMCC discussion Rel-18 IoT\_NTN\_enh

[R2-2212778](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212778.zip) Triggering neighbor cell measurements prior to RLF Ericsson discussion Rel-18 IoT\_NTN\_enh

[R2-2212828](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212828.zip) Discussion on neighbour cell measurements Huawei, HiSilicon discussion Rel-18 LTE\_NBIOT\_eMTC\_NTN

#### 8.6.3.2 Other

[R2-2211313](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211313.zip) Discussion on Location Based CHO Mechanism CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2211580](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211580.zip) RLF detection in earth fixed cell Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2212013](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212013.zip) Discussion on mobility enhancements for eMTC NTN ZTE Corporation, Sanechips discussion IoT\_NTN\_enh-Core

[R2-2212046](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212046.zip) IDLE mobility for IoT NTN Lenovo discussion Rel-18

[R2-2212168](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212168.zip) Discussion on mobility enhancement in IoT-NTN Spreadtrum Communications discussion Rel-18

[R2-2212239](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212239.zip) CHO and Measurement enhancement for eMTC NEC discussion Rel-18 IoT\_NTN\_enh

[R2-2212241](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212241.zip) Idle mode Mobility Enhancement for IoT NTN Samsung Electronics Nordic AB discussion

[R2-2212297](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212297.zip) Other IoT-NTN mobility enhancements Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212829](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212829.zip) Discussion on CHO enhancements Huawei, HiSilicon discussion Rel-18 LTE\_NBIOT\_eMTC\_NTN

### 8.6.4 Enhancements to discontinuous coverage

Not treated at this meeting. No contributions expected

[R2-2211290](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211290.zip) On Enhancements to discontinuous coverage Mediatek Inc. discussion

## 8.7 NR NTN enhancements

(xx-Core; leading WG: RAN1; REL-18; WID: RP-222654)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 8.7.1 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.

[R2-2211129](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211129.zip) Response LS on LCS framework for Network verified UE location (NTN) (S2-2209589; contact: CATT) SA2 LS in Rel-18 FS\_eLCS\_Ph3 To:RAN2 Cc:RAN3, RAN1

### 8.7.2 Coverage Enhancements

[R2-2211314](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211314.zip) Discussion on NTN coverage enhancements CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211324](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211324.zip) Further discussion on overhead reduction for VoNR in NR NTN vivo discussion

[R2-2211335](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211335.zip) Discussion on L2 header reduction in NTN OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211571](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211571.zip) Discussion on RAN2 aspects of coverage enhancements Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2212047](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212047.zip) Potential issues for Msg3 repetition in NTN Lenovo discussion Rel-18

[R2-2212240](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212240.zip) Coverage enhancement NEC discussion Rel-18 NR\_NTN\_enh

[R2-2212279](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212279.zip) Consideration on coverage enhancement in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2212336](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212336.zip) Blind Msg3 retransmission in Rel-18 NTN InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212447](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212447.zip) Discussion on NR NTN Coverage Enhancement Samsung Research America discussion Rel-18 NR\_NTN\_enh

[R2-2212613](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212613.zip) Discussion on coverage enhancements CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212727](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212727.zip) On coverage enhancements for NR NTN Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh

[R2-2212760](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212760.zip) Discussion on the coverage enhancement in NTN LG Electronics Inc. discussion NR\_NTN\_enh-Core

[R2-2212803](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212803.zip) Discussion on coverage enhancement for NR NTN Xiaomi discussion Rel-18

[R2-2212937](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212937.zip) Discussion on coverage enhancements Huawei, HiSilicon discussion Rel-18

[R2-2212951](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212951.zip) R18 NR NTN Coverage enhancements Ericsson discussion

### 8.7.3 Network verified UE location

[R2-2211325](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211325.zip) Further discussion on network verified UE location vivo discussion Rel-18

[R2-2211348](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211348.zip) Discussion on network verified UE location OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211373](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211373.zip) On Network Verified UE Location in NR NTN Mediatek Inc. discussion R2-2209444

[R2-2211517](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211517.zip) Discussion on the overall procedure of network verified UE location Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh

[R2-2211572](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211572.zip) Discussion on network verified UE location Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2211733](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211733.zip) Discussion on NTN network verified UE location Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211988](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211988.zip) Network Verified UE Location Samsung Electronics Nordic AB discussion

[R2-2212078](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212078.zip) Discussion on network verified UE location Xiaomi discussion

[R2-2212097](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212097.zip) On NTN NW verified UE location aspects Lenovo discussion Rel-18

[R2-2212175](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212175.zip) Discussion on UE position verify procedure Spreadtrum Communications discussion Rel-18

[R2-2212280](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212280.zip) onsideration on NW verified UE location ZTE Corporation, Sanechips discussion Rel-18

[R2-2212334](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212334.zip) On Network Verified UE Location in NR NTN Mediatek India Technology Pvt. discussion R2-2209444 Withdrawn

[R2-2212403](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212403.zip) Further on network verified UE location Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh

[R2-2212640](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212640.zip) Network verified UE location THALES discussion

[R2-2212705](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212705.zip) Remaining Issues of UE Location Verification via Network CMCC discussion Rel-18 NR\_NTN\_enh

[R2-2212949](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212949.zip) R18 NR NTN Network verified UE location Ericsson discussion NR\_NTN\_enh

### 8.7.4 NTN-TN and NTN-NTN mobility and service continuity enhancements

[R2-2211372](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211372.zip) Handover Enhancement in LEO NTN Mediatek Inc. discussion R2-2209445

[R2-2212177](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212177.zip) Some enhancements in NTN handover Spreadtrum Communications discussion Rel-18

#### 8.7.4.1 Cell reselection enhancements

[R2-2211315](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211315.zip) Discussion on Mobility Enhancements in IDLE state CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211323](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211323.zip) Discussion on cell reselection enhancement in NR NTN vivo discussion Rel-18

[R2-2211338](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211338.zip) Discussion on mobility enhancements for idle and inactive UEs OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211410](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211410.zip) Discussion on NTN-NTN cell reselection enhancements Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2211411](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211411.zip) Discussion on TN-NTN cell reselection enhancements Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2211573](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211573.zip) TN neighbour cell measurement relaxation Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2211662](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211662.zip) Discussion on cell reselection in earth moving cell CAICT,CAST Xi’an discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211734](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211734.zip) NTN-NTN cell reselection enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211735](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211735.zip) NTN-TN cell reselection enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211767](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211767.zip) Discussion on NTN-NTN cell reselection enhancements LG Electronics France discussion Rel-18 NR\_NTN\_enh R2-2210737

[R2-2211768](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211768.zip) Discussion on NTN-TN cell reselection enhancements LG Electronics France discussion Rel-18 NR\_NTN\_enh

[R2-2211811](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211811.zip) Discussion on reference location for moving cell ASUSTeK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211835](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211835.zip) Further discussion on NTN-NTN and NTN-TN cell reselection enhancements Transsion Holdings discussion Rel-18

[R2-2211911](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211911.zip) Discussion on the no-TN-coverage area FGI discussion

[R2-2211929](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211929.zip) Cell selection/reselection enhancements in NTN Sony discussion Rel-18 NR\_NTN\_enh

[R2-2211999](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211999.zip) Further discussion on NTN-TN cell reselection enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2212048](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212048.zip) IDLE/INACTIVE mobility regarding moving cells and TN area Lenovo discussion Rel-18

[R2-2212079](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212079.zip) Cell reselection enhancements for NTN-NTN and NTN-TN mobility Xiaomi discussion

[R2-2212260](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212260.zip) On Cell Reselection Enhancements for Intra-NTN and NTN-TN Scenarios Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212281](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212281.zip) Discussion on cell reselection enhancements in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2212337](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212337.zip) Cell reselection enhancements for Earth moving cell InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212338](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212338.zip) NTN-TN mobility and service continuity InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212384](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212384.zip) Remaining issues on cell reselection enhancements NEC Telecom MODUS Ltd. discussion

[R2-2212385](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212385.zip) NTN-NTN handover enhancement for RRC\_CONNECTED UEs NEC Telecom MODUS Ltd. discussion R2-2210338

[R2-2212448](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212448.zip) Discussion on NR NTN Cell Reselection Enhancement Samsung Research America discussion Rel-18 NR\_NTN\_enh

[R2-2212559](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212559.zip) Discussion on cell reselection enhancements Sharp discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212614](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212614.zip) Discussion on NTN-TN reselection and reselection for earth moving cell CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212799](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212799.zip) Discussion on NTN-TN and NTN-NTN cell re-selection ITL discussion Rel-18

[R2-2212826](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212826.zip) Discussion on cell reselection enhancements Huawei, HiSilicon discussion Rel-18 NR\_NTN\_solutions-Core

[R2-2212893](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212893.zip) Cell Reselection Enhancement for NTN-NTN and NTN-TN Mobility Google Inc. discussion Rel-18

[R2-2212945](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212945.zip) Cell reselection enhancements Ericsson discussion NR\_NTN\_enh

#### 8.7.4.2 Handover enhancements

[R2-2211316](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211316.zip) Discussion on PCI unchanged scenario CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211317](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211317.zip) Discussion on NTN HO Enhancements CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211322](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211322.zip) Discussion on handover enhancement for siganlling overhead reduction in NR NTN vivo discussion Rel-18

[R2-2211349](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211349.zip) Discussion on NTN handover enhancements OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211409](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211409.zip) Discussion on NTN 2-step handover Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2211574](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211574.zip) Signaling overhead reduction in satellite switch Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2211663](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211663.zip) Discussion on NTN HO enhancnment CAICT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211736](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211736.zip) NTN specific handover enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211769](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211769.zip) Discussion on HO enhancements for NTN LG Electronics France discussion Rel-18 NR\_NTN\_enh

[R2-2211784](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211784.zip) Reduction of handover overhead in NTN China Telecom discussion Rel-18 NR\_NTN\_enh

[R2-2211836](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211836.zip) Further discussion on NTN-NTN handover enhancements Transsion Holdings discussion Rel-18

[R2-2211930](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211930.zip) Signaling overhead reduction and group handover during NTN-NTN HOs Sony discussion Rel-18 NR\_NTN\_enh

[R2-2211998](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211998.zip) Further discussion on NTN-NTN handover enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2212049](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212049.zip) Issue analysis for service continuity in TN-NTN and NTN-NTN scenarios Lenovo discussion Rel-18

[R2-2212080](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212080.zip) Discussion on handover enhancements for NTN-NTN mobility Xiaomi discussion

[R2-2212259](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212259.zip) On Connected Mode Mobility for Rel-18 NTN Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212282](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212282.zip) Discussion on HO enhancements in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2212339](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212339.zip) NTN mobility enhancements for RRC\_CONNECTED InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212449](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212449.zip) Discussion on NR NTN Handover Enhancement Samsung Research America discussion Rel-18 NR\_NTN\_enh

[R2-2212560](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212560.zip) Discussion on handover enhancements Sharp discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212615](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212615.zip) Discussion on handover enhancements CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212721](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212721.zip) HO/CHO Signaling Overhead Reduction by NTN-config omission Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212802](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212802.zip) View on NTN HO enhancements ITL discussion

[R2-2212827](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212827.zip) Discussion on NTN handover enhancements Huawei, HiSilicon discussion Rel-18 NR\_NTN\_solutions-Core

[R2-2212894](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212894.zip) NTN-TN Mobility Enhancement for RRC\_CONNECTED UEs Google Inc. discussion Rel-18

[R2-2212934](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212934.zip) Further discussion on NTN-NTN handover enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2212946](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212946.zip) Handover enhancements Ericsson discussion NR\_NTN\_enh

## 8.8 NR support for UAV

(xx-Core; leading WG: RAN1; REL-18; WID: RP-213600)

Time budget: 0.5 TU

Tdoc Limitation: 2

### 8.8.1 Organizational

[R2-2212266](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212266.zip) Uncrewed Aerial Vehicles in Rel-18 - Updated Workplan Nokia, Nokia Shanghai Bell Work Plan Rel-18 NR\_UAV-Core

[R2-2212267](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212267.zip) SA2 Status for Uncrewed Aerial Vehicles in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

### 8.8.2 Measurement reporting

Contributions should focus on enhancement to measurement reports, for example UE-triggered measurement report based on configured height thresholds, Reporting of height, location and speed in measurement report, Flight path reporting, Measurement reporting based on a configured number of cells (i.e. larger than one) fulfilling the triggering criteria simultaneously

Note: Work done in LTE is a starting point for this objective. NR-specific enhancements can be considered, if needed, while overall the LTE and NR solutions should be harmonized as much as possible.

[R2-2211190](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211190.zip) Measurement Enhancement for UAV OPPO discussion Rel-18

[R2-2211305](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211305.zip) Measurement and reporting enhancements Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2211404](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211404.zip) Discussion on reducing measurement reporting and flight path update for UAV Intel Corporation discussion Rel-18 NR\_UAV-Core

[R2-2211452](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211452.zip) Considerations on Measurement Reports Enhancements NEC Europe Ltd discussion Rel-18 NR\_UAV-Core

[R2-2211738](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211738.zip) Measurement reporting enhancement in UAV Apple discussion Rel-18 NR\_UAV

[R2-2211739](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211739.zip) User consent on UAV Apple discussion Rel-18 NR\_UAV

[R2-2211766](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211766.zip) On measurement reporting enhancements in NR UAV Samsung Electronics Co., Ltd discussion Rel-18 NR\_UAV-Core

[R2-2211798](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211798.zip) Further consideration on measurement reporting for NR UAV ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2211819](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211819.zip) Discussion on flight path reporting for NR UAV vivo discussion Rel-18 NR\_UAV

[R2-2211820](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211820.zip) Discussion on measurement reporting enhancement for NR UAV vivo discussion Rel-18 NR\_UAV

[R2-2211931](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211931.zip) Considerations about UAV mobility and user consent Sony discussion Rel-18 NR\_UAV

[R2-2211996](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211996.zip) Further discussion on NR support for UAV NTT DOCOMO, INC. discussion Rel-18

[R2-2212019](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212019.zip) Measurement enhancement for NR UAV Lenovo discussion Rel-18

[R2-2212145](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212145.zip) Measurement Reporting for NR UAV CATT discussion Rel-18 NR\_UAV-Core

[R2-2212268](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212268.zip) On Measurement Related Aspects for UAV UEs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2212269](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212269.zip) On Flight Path Plan (FPP) for UAVs – Role, Content and Reporting Aspects Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2212340](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212340.zip) Flight path reporting for UAV InterDigital discussion Rel-18 NR\_UAV-Core

[R2-2212616](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212616.zip) Measurement Reporting for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2212638](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212638.zip) Further discussion on UAV measurement enhancements Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2212657](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212657.zip) Discussion on measurement reporting for NR UAV Xiaomi discussion Rel-18 NR\_UAV-Core

[R2-2212669](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212669.zip) Discussion on measurement reporting for NR UAV Sharp discussion

[R2-2212736](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212736.zip) Consideration on flight path reporting of NR support for UAV DENSO CORPORATION discussion NR\_UAV-Core

[R2-2212800](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212800.zip) Discussion on flight path reporting for NR UAV China Telecom discussion

[R2-2212824](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212824.zip) Measurement Report Enhancement LG Electronics Finland discussion Rel-18

[R2-2212846](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212846.zip) Flight path information report Enhancement LG Electronics Finland discussion Rel-18

[R2-2212900](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212900.zip) Flight path reporting and UAV measurement reports Ericsson discussion Rel-18 NR\_UAV-Core

[R2-2212933](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212933.zip) Further discussion on NR support for UAV NTT DOCOMO, INC. discussion Rel-18

### 8.8.3 Subscription-based aerial-UE identification

Contributions should focus on signaling required to support subscription-based aerial-UE identification

Note: Work done in LTE is a starting point for this objective. NR-specific enhancements can be considered, if needed, while overall the LTE and NR solutions should be harmonized as much as possible.

[R2-2211191](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211191.zip) Subscription-based aerial-UE identification OPPO discussion Rel-18 R2-2209419

[R2-2211306](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211306.zip) Enhancements for subscription-based aerial-UE identification Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core R2-2209447

[R2-2211453](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211453.zip) Considerations on Subscription-based Identification for NR UAV NEC Europe Ltd discussion Rel-18 NR\_UAV-Core

[R2-2211651](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211651.zip) Discussion on subscription-based aerial-UE identification for NR UAV Samsung Electronics Co., Ltd discussion Rel-18 NR\_UAV-Core R2-2210739

[R2-2211799](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211799.zip) On subscription based identification for NR UAV ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2212146](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212146.zip) Subscription-based Aerial-UE Identification for NR CATT discussion Rel-18 NR\_UAV-Core

[R2-2212513](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212513.zip) UAV Sub.UE Identification and identity broadcast Beijing Xiaomi Mobile Software discussion Rel-18 NR\_UAV-Core

[R2-2212617](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212617.zip) Subscription-based aerial-UE identification for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2212639](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212639.zip) Discussion on subscription-based UAV identification Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2212898](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212898.zip) Subscription-based aerial UEs identification Ericsson discussion Rel-18 NR\_UAV-Core

### 8.8.4 UAV identification broadcast

Study and specify, if needed, enhancements for UAV identification broadcast

NOTE: This Agenda Item will not be treated in this meeting

[R2-2211125](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211125.zip) OG0022\_LS-MITRE-Engenuity Open Generation DAA input\_PC5\_DAA\_RID\_PRS OG0022 (contact: vivo) MITRE Engenuity Open Generation 5G Consortium LS in NR\_UAV-Core To:SA2 Cc:RAN2

[R2-2211932](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211932.zip) UAV identification broadcast Sony discussion Rel-18 NR\_UAV

[R2-2212020](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212020.zip) Discussion on broadcasting remote id for UAV Lenovo discussion Rel-18

## 8.9 Enhanced NR Sidelink Relay

(NR\_SL\_relay\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221262)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

### 8.9.1 Organizational

Including incoming LSs and rapporteur inputs.

[R2-2211120](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211120.zip) LS on ProSe Authorization information related to UE-to-UE Relay operation to NG-RAN (S2-2207518; contact: LGE) SA2 LS in Rel-18 FS\_5G\_ProSe\_Ph2, NR\_SL\_relay\_enh To:RAN2, RAN3

### 8.9.2 UE-to-UE relay

Single-hop Layer-2 and Layer-3 UE-to-UE relay for unicast. Focus for this meeting is on the common L2/L3 parts: relay discovery and (re)selection. Tdocs on other aspects of the objective may be submitted but will not be treated at this meeting.

[R2-2211279](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211279.zip) Discussion on U2U Relay Discovery and (Re)selection CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211400](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211400.zip) Discussion on NR sidelink UE to UE relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211401](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211401.zip) Discovery and reselection with UE-to-UE relaying Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2211534](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211534.zip) Remaining Issues on Relay (re)Selection and Discovery Ericsson España S.A. discussion Rel-18

[R2-2211630](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211630.zip) Discovery and Relay Selection for UE-to-UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211675](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211675.zip) Discussion on the common L2 L3 parts for U2U relaying vivo discussion

[R2-2211697](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211697.zip) Discussion on UE-to-UE Relay Apple discussion NR\_SL\_relay\_enh-Core

[R2-2211753](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211753.zip) Discussion on UE-to-UE relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211781](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211781.zip) Discussion on U2U relay China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211785](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211785.zip) U2U Relay open issues and coexistence with U2N Relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2211816](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211816.zip) Discussion on U2U relay communication ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211821](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211821.zip) UE to UE relay discovery and (re)selection NEC Corporation discussion NR\_SL\_relay\_enh-Core

R2-2211830 Relay selection and reselection triggers Fujitsu discussion Rel-18 NR\_SL\_relay\_enh-Core Withdrawn

[R2-2211849](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211849.zip) Relay selection and reselection triggers Fujitsu discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211933](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211933.zip) UE-to-UE relay (re)selection Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2212025](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212025.zip) Discussion on L2 UE-to-UE relay Lenovo discussion Rel-18

[R2-2212159](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212159.zip) Remaining issues on relay discovery and (re)selection for U2U relay Spreadtrum Communications discussion Rel-18

[R2-2212207](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212207.zip) Discussion on integrated U2U relay discovery Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212275](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212275.zip) SL UE-to-UE Relay Discovery and (Re-)Selection Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_relay\_enh

[R2-2212301](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212301.zip) Considerations for U2U L2 relay operations Kyocera discussion

[R2-2212320](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212320.zip) Relay discovery and (re)selection for UE-to-UE relay MediaTek Inc. discussion Rel-18

[R2-2212321](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212321.zip) Connection management and procedures for L2 UE-to-UE relay MediaTek Inc. discussion Rel-18

[R2-2212404](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212404.zip) Considerations on U2U relay (re)selection Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2212508](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212508.zip) Further discussion on U2U relay discovery and relay selection Beijing Xiaomi Mobile Software discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212519](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212519.zip) Relay (re-)selection and discovery for UE-to-UE relay LG Electronics France discussion Rel-18

[R2-2212561](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212561.zip) UE-to-UE relay (re)selection Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212610](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212610.zip) AS condition for relay discovery message transmission Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212697](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212697.zip) Discussion on U2U relay CMCC discussion Rel-18 NR\_SL\_relay\_enh

### 8.9.3 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.

[R2-2211280](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211280.zip) Consideration on Service Continuity Enhancements for L2 U2N Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211399](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211399.zip) Discussion on further enhancement of service continuity OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211402](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211402.zip) Service continuity enhancements for L2 U2N relay Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2211413](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211413.zip) Considerations on Service Continuity Enhancement NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211535](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211535.zip) Further Aspects on Inter-gNB Service Continuity Ericsson España S.A. discussion Rel-18

[R2-2211607](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211607.zip) Discussion on Service Continuity Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211631](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211631.zip) Open Issues on Service Continuity InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

R2-2211632 Lossless path switching from indirect to indirect/direct InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core Withdrawn

[R2-2211676](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211676.zip) Remaining issues on service continuity enhancement for L2 U2N relay vivo discussion

[R2-2211698](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211698.zip) Discussion on Service continuity enhancement of L2 U2N relay Apple discussion NR\_SL\_relay\_enh-Core

[R2-2211782](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211782.zip) Considerations on service continuity enhancements China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211786](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211786.zip) Open issue on service continuity for UE-to-Network relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2211875](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211875.zip) Discussion on service continuity enhancement Xiaomi discussion

[R2-2211897](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211897.zip) Service continuity enhancement for L2 U2N relay ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211934](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211934.zip) Service continuity enhancements for UE sidelink relay Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2212026](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212026.zip) Service continuity enhancements for L2 U2N relay Lenovo discussion Rel-18

[R2-2212155](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212155.zip) Service continuity enhancements support for L2 U2N relay Spreadtrum Communications discussion Rel-18

[R2-2212253](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212253.zip) Discussion on service continuity issues for Inter-gNB path switching of L2 U2N relay Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212254](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212254.zip) SL-RSRP and SD-RSRP measurement issues Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212276](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212276.zip) U2N Relay UE operation Threshold Conditions: Impact of UE Mobility Philips International B.V., FirstNet, ASUSTek, NEC, MediaTek, Lenovo discussion Rel-18 NR\_SL\_relay\_enh-Core R2-2208158

[R2-2212307](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212307.zip) L2 U2N inter-gNB service continuity Kyocera discussion

[R2-2212322](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212322.zip) Inter-gNB path switch to Relay UE in RRC\_Idle, RRC\_Inactive MediaTek Inc. discussion Rel-18

[R2-2212410](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212410.zip) Lossless path switching from indirect to indirect/direct InterDigital, Inc. discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212520](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212520.zip) Service continuity enhancements for L2 U2N relay LG Electronics France discussion Rel-18

[R2-2212570](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212570.zip) Discussion on remaining issues for i2i path switch Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212698](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212698.zip) Discussion on service continuity CMCC discussion Rel-18 NR\_SL\_relay\_enh

### 8.9.4 Multi-path relaying

Study the benefit and potential solutions for multi-path support to enhance reliability and throughput. Includes the cases 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).

[R2-2211207](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211207.zip) Discussion on multi-path SL relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211208](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211208.zip) Discussion on PCell location for Multi-path Relay OPPO, ZTE, Huawei, HiSilicon, MediaTek discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211281](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211281.zip) Discussion on Multi-path for Scenario 1 CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211282](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211282.zip) Leftover issues on Multi-path scenario 2 CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211403](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211403.zip) Path management for Multi-path Relaying Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2211414](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211414.zip) Considerations on Multipath of Sidelink Relay NEC Corporation discussion NR\_SL\_relay\_enh-Core

[R2-2211536](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211536.zip) Remaining Issues on Multipath Relays for Scenario-1 and Scenario-2 Ericsson España S.A. discussion Rel-18

[R2-2211537](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211537.zip) PCell and SRB Handling for Multipath Relays in Scenario-1, Scenario-2 Ericsson España S.A. discussion Rel-18

[R2-2211633](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211633.zip) Design Aspects for Multi-path InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211677](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211677.zip) Remaining Control Plane Issues for Multi-path Scenario 1&2 vivo discussion

[R2-2211678](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211678.zip) Supporting Cases and Detailed Procedures for Multi-path Scenario-1 and Scenario-2 vivo discussion

[R2-2211699](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211699.zip) Discussion on multi-path relaying support Apple discussion NR\_SL\_relay\_enh-Core

[R2-2211752](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211752.zip) Discussion on multi-path operation Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211783](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211783.zip) Discussion on multi-path relaying China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211787](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211787.zip) Multi-path relaying for NR sidelink relay enhancements LG Electronics France discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211788](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211788.zip) Further discussion on multi-path relay for Scenario 1 and Scenario 2 Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2211814](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211814.zip) Discussion on the remaining issues of multi-path relaying ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211815](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211815.zip) Further discussion on the UE aggregation ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211874](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211874.zip) Discussion on multi-path Xiaomi discussion

[R2-2211935](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211935.zip) Multi-path relaying discussion Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2212027](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212027.zip) Second path addition and failure recovery for Scenario1 Lenovo discussion Rel-18

[R2-2212156](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212156.zip) Discussion on multi-path relaying Spreadtrum Communications discussion Rel-18

[R2-2212323](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212323.zip) MP modelling MediaTek Inc. discussion Rel-18

[R2-2212562](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212562.zip) C-plane aspects of multi-path Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212563](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212563.zip) Discussion on scenario 2 of multi-path relaying Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212699](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212699.zip) Control plane issues in multi-path CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2212700](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212700.zip) Protocol stack for multi-path CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2212722](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212722.zip) Support of multipath relay Nokia Korea discussion

[R2-2212737](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212737.zip) Control plane aspects for multi-path relaying Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2212813](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212813.zip) Discussion on common features for scenario 1&2 in sidelink relay enhancement Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212814](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212814.zip) Discussion on specific issues for scenario 2 Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2212866](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212866.zip) Discussion on Multi-path relaying Lenovo discussion NR\_SL\_relay\_enh-Core

### 8.9.5 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.

[R2-2211700](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211700.zip) Discussion on SL DRX for L2 Relay Apple discussion NR\_SL\_relay\_enh-Core R2-2209774

[R2-2211754](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211754.zip) On sidelink DRX for L2 U2N relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2211789](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211789.zip) SL DRX for L2 U2N Relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2211876](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211876.zip) Discussion on SL DRX in U2N relay Xiaomi discussion

[R2-2211936](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211936.zip) Discussions on Sidelink Relay DRX Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2212274](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212274.zip) Motivation for SL U2N Relay DRX coordination Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_relay\_enh

## 8.10 IDC enhancements for NR and MR-DC

(NR\_IDC\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221281)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

This WI expects to address interference between 3GPP (including various MR-DC architectures, i.e. NR-DC and EN-DC) and non-3GPP RAT (e.g. WiFi). Note: Enhancements to FDM solution is prioritized. LTE IDC solution should be considered as the baseline for the solutions developed in this WI.

### 8.10.1 Organizational

LS in. Rapporteur Input

### 8.10.2 FDM solution enhancements

Enhancements to FDM solution, to allow more granular indication of affected frequencies (e.g. granularity of BWP or PRB level).

Including the outcome of email discussion [Post119-e][650][IDC] Comparison of FDM solutions (Ericsson). Further discussion on, e.g. stage 3 details of the selected solutions if time is allowed.

[R2-2211581](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211581.zip) FDM Solutions in IDC Qualcomm Incorporated discussion Rel-18

[R2-2211608](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211608.zip) Discussion on FDM enhancement Huawei, HiSilicon discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211618](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211618.zip) Enhanced FDM solution for IDC Intel Corporation discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211740](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211740.zip) Discussion on FDM solutions in IDC Apple discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211756](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211756.zip) Discussion on FDM solution enhancements for IDC OPPO discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211969](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211969.zip) FDM solutions Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211979](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211979.zip) Discussion on the FDM Option 1 and 2 Xiaomi discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212412](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212412.zip) More granular FDM indications Ericsson discussion Rel-18

[R2-2212420](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212420.zip) Report from [Post119-e][650][IDC] Comparison of FDM solutions (Ericsson) Ericsson discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212652](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212652.zip) Discussion on FDM solution for R18 IDC vivo discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212668](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212668.zip) Discussion on FDM solution enhancements Sharp discussion

[R2-2212743](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212743.zip) Further Consideration on the IDC FDM Solutions ZTE Corporation, Sanechips discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212816](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212816.zip) Discussion on FDM solution for IDC Samsung discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212921](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212921.zip) IDC FDM solution LG Electronics discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212931](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212931.zip) FDM solution for IDC Lenovo discussion Rel-18 NR\_IDC\_enh-Core

### 8.10.3 TDM solution

Introduction of TDM solution (e.g. indication of UE preferred TDM pattern for UL/DL).   
Note: The TDM solution is considered complementary to the FDM solution.

Including the outcome of email discussion [Post119-e][651][IDC] Comparison of TDM solutions (Xiaomi). Further discussion on, e.g. stage 3 details of the selected solutions if time is allowed.

[R2-2211583](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211583.zip) TDM Solutions in IDC Qualcomm Incorporated discussion Rel-18

[R2-2211609](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211609.zip) Discussion on TDM solution for NR IDC Huawei, HiSilicon discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211619](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211619.zip) TDM solution for IDC Intel Corporation discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211741](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211741.zip) Discussion on TDM solutions in IDC Apple discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211757](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211757.zip) Discussion on TDM solutions for IDC OPPO discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211970](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211970.zip) TDM solutions Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_IDC\_enh-Core

[R2-2211978](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211978.zip) Summary of [Post119-e][651][IDC] Comparison of TDM solutions (Xiaomi) Xiaomi discussion Rel-18 NR\_IDC\_enh-Core Late

[R2-2211980](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211980.zip) Discussion on the TDM Option 1 and 4 Xiaomi discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212004](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212004.zip) NR IDC TDM solutions and indications Ericsson discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212653](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212653.zip) MUSIM gap like solution for IDC vivo discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212742](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212742.zip) Further Consideration on the IDC TDM Solutions ZTE Corporation, Sanechips discussion Rel-18 NR\_IDC\_enh-Core

[R2-2212817](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212817.zip) Discussion on TDM solution for IDC Samsung discussion Rel-18 NR\_IDC\_enh-Core

## 8.11 Enhancements of NR Multicast and Broadcast Services

(NR\_MBS\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221458)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.11.1 Organizational

LS in, rapporteur input etc.

[R2-2211157](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211157.zip) Reply LS on FS\_5MBS\_Ph2 progress (R3-225987; contact: Huawei) RAN3 LS in Rel-18 FS\_5MBS\_Ph2, NR\_MBS\_enh-Core To:SA2, RAN2 Cc:RAN1

[R2-2211168](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211168.zip) LS on resource efficiency for MBS reception in RAN sharing scenario (R3-226084; contact: CATT) RAN3 LS in Rel-18 NR\_MBS\_enh To:RAN2 Cc:SA2

[R2-2212628](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212628.zip) 38.300 Running CR for MBS enhancements CMCC CR Rel-18 38.300 17.2.0 0589 - B NR\_MBS\_enh-Core

### 8.11.2 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].

Including aspects such as:

* details of PTM configuration option 1 and 2, e.g. to understand potential enhancements required for RRC state management, configuration update, notifications, service continuity, mobility, session state changes etc.
* comparison of the two options, how to address main issues of each option, mixed option considerations
* potential cross-WG impacts identification

[R2-2211243](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211243.zip) Further discussions on multicast reception in RRC\_INACTIVE CATT, CBN discussion NR\_MBS\_enh-Core

[R2-2211247](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211247.zip) Supporting Multicast Reception in RRC\_INACTIVE from Upper Layer Aspects vivo Mobile Com. (Chongqing) discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211248](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211248.zip) Supporting Multicast Reception in RRC\_INACTIVE from Lower Layer Aspects vivo Mobile Com. (Chongqing) discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211271](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211271.zip) Analysis of options for sending PTM configuration TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2211273](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211273.zip) Multicast reception in RRC\_INACTIVE state Chengdu TD Tech, TD Tech discussion Rel-18

[R2-2211294](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211294.zip) Discussion on Paging and PTM configuration for Multicast reception in Inactive State TCL Communication Ltd. discussion Rel-18 Late

[R2-2211299](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211299.zip) Discussion on multicast reception in RRC\_INACTIVE state OPPO discussion Rel-18 NR\_MBS\_enh

[R2-2211300](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211300.zip) LS on multicast reception in RRC\_INACTIVE OPPO LS out Rel-18 NR\_MBS\_enh To:RAN1

[R2-2211434](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211434.zip) Session state change for UEs receiving Multicast in RRC\_INACTIVE state TCL Communication Ltd. discussion

[R2-2211435](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211435.zip) PTM configuration for UEs receiving Multicast in RRC\_INACTIVE state TCL Communication Ltd. discussion

[R2-2211512](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211512.zip) Multicast reception for RRC INACTIVE UE Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211550](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211550.zip) Multicast reception by UEs in RRC\_INACTIVE state Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211611](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211611.zip) Discussion on multicast reception in RRC\_INACTIVE NEC Europe Ltd discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211730](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211730.zip) Multicast reception in INACTIVE state Apple discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211880](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211880.zip) PTM configuration option 1 CANON Research Centre France discussion Rel-18 R2-2209533 Withdrawn

[R2-2211890](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211890.zip) Discuss on PTM configuration delivery for multicast in RRC INACTIVE MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211891](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211891.zip) Discuss on the notification for multicast in RRC INACTIVE MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211971](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211971.zip) Multicast reception in RRC\_INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212014](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212014.zip) PTM configuration option 1 CANON Research Centre France discussion Rel-18 R2-2209533

[R2-2212037](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212037.zip) PTM configuration for multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2212038](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212038.zip) Mobility and state transition for multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2212104](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212104.zip) Discussion on Multicast Reception in RRC\_INACTIVE Samsung R&D Institute India discussion Rel-18

[R2-2212176](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212176.zip) Discussion on Multicast Reception in RRC\_INACTIVE Spreadtrum Communications discussion Rel-18

[R2-2212185](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212185.zip) Multicast reception in RRC\_INACTIVE Intel Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212209](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212209.zip) Service expectations for Multicast Sessions in RRC\_INACTIVE AT&T, FirstNet discussion Rel-18

[R2-2212305](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212305.zip) Multicast reception in RRC\_INACTIVE Ericsson discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212310](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212310.zip) State transition for multicast reception in RRC\_INACTIVE LG Electronics Inc. discussion Rel-18

[R2-2212311](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212311.zip) PTM configuration for multicast reception in RRC\_INACTIVE LG Electronics Inc. discussion Rel-18

[R2-2212411](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212411.zip) Ensuring desired level of reliability for an MBS session InterDigital, Inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212521](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212521.zip) Details of multicast reception in RRC INACTIVE Kyocera discussion Rel-18 R2-2210428

[R2-2212545](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212545.zip) PTM Configuration for RRC\_INACTIVE UE SHARP Corporation discussion

[R2-2212629](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212629.zip) Discussion on multicast reception in RRC\_INACTIVE CMCC discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212741](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212741.zip) Considerations on the multicast reception in RRC\_INACTVE state Xiaomi discussion Rel-18

[R2-2212896](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212896.zip) Multicast reception in RRC\_INACTIVE ASELSAN, Turkcell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212926](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212926.zip) Multicast reception in RRC\_INACTIVE ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh-Core

### 8.11.3 Shared processing for MBS broadcast and Unicast reception

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]

**This Agenda Item will not be treated during this meeting.**

[R2-2211272](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211272.zip) Simultaneous unicast reception and MBS broadcast reception TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2211304](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211304.zip) MBS reception interruption problem in LTE and NR Chengdu TD Tech, TD Tech discussion Rel-18 Withdrawn

[R2-2211307](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211307.zip) Shared processing for MBS broadcast and unicast reception Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core R2-2209448

R2-2211329 MBS reception interruption problem in LTE and NR Chengdu TD Tech, TD Tech discussion Rel-18 Withdrawn

[R2-2211330](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211330.zip) MBS reception interruption problem in LTE and NR Chengdu TD Tech, TD Tech discussion Rel-18 Withdrawn

[R2-2211415](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211415.zip) MBS reception interruption problem in LTE and NR TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2211731](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211731.zip) Shared processing of MBS broadcast and unicast reception Apple discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212522](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212522.zip) Shared processing for inter-PLMN MBS broadcast reception Kyocera discussion Rel-18 R2-2210427

### 8.11.4 RAN sharing scenarios

Objective: Study and if necessary, specify enhancements to improve the resource efficiency for MBS reception in RAN sharing scenarios [RAN3]

This objective has no official RAN2 involvement and this AI is only to gather companies views on incoming LS from RAN3 (R3-226084), other considerations should not be contributed and will not be treated.

[R2-2211244](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211244.zip) [Draft] Reply LS on resource efficiency for MBS reception in RAN sharing scenario CATT LS out NR\_MBS\_enh-Core To:RAN3 Cc:SA2

[R2-2211245](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211245.zip) Discussions on RAN3 LS on resource efficiency for MBS reception in RAN sharing scenario CATT, CBN discussion NR\_MBS\_enh-Core

[R2-2211513](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211513.zip) Discussion on the RAN3 LS on resource efficiency for MBS reception in RAN sharing scenario Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211612](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211612.zip) Discussion on RAN sharing scenarios for MBS NEC Europe Ltd discussion Rel-18 NR\_MBS\_enh-Core

[R2-2211972](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211972.zip) RAN sharing and response to RAN3 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212057](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212057.zip) Discussion on RAN sharing scenario Samsung discussion Rel-18

[R2-2212306](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212306.zip) RAN sharing scenarios Ericsson discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212577](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212577.zip) Discussion on RAN3 LS on MBS RAN sharing Intel Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212630](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212630.zip) Discussion on RAN3 LS CMCC discussion Rel-18 NR\_MBS\_enh-Core

[R2-2212740](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212740.zip) Discussion on the “LS on resource efficiency for MBS reception in RAN sharing scenario” from RAN3 (R3-226084) Xiaomi discussion Rel-18

[R2-2212927](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212927.zip) RAN2 on network sharing for Broadcast session ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh-Core

## 8.12 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: 2 tdocs

### 8.12.1 Organizational

Ls in Rapporteur input etc

[R2-2211163](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211163.zip) Reply LS on FS\_VMR solutions review (R3-226048; contact: Qualcomm) RAN3 LS in Rel-18 NR\_mobile\_IAB To:SA2 Cc:RAN2, RAN4, RAN

* noted

[R2-2211472](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211472.zip) Workplan for Rel-18 mobile IAB Qualcomm Inc. (Rapporteur) Work Plan Rel-18 NR\_mobile\_IAB

* noted

### 8.12.2 Mobility Enhancements

Enhancements for mobility of an IAB-node together with its served UEs, including aspects related to group mobility. No optimizations for the targeting of surrounding UEs. [RAN3, RAN2]

Mobile IAB Node to Network Indication

Mobile IAB Node Camping

UE usage of the Mobile IAB indication

[R2-2211686](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211686.zip) Further discussion on mobility enhancement in mobile IAB Apple discussion NR\_mobile\_IAB-Core

P1-P4 Only

DISCUSSION

- LG agrees with P1 P2, not P4. On P3 would be ok to not have this indication.

- ZTE think we need to ask R3 to do this. Think AMF need to be enhanced for mobile relay, QC think R3 don’t need to be told.

- ZTE agree with P2. For P3 better to have such indication. Parent DU need to indicate whether it is connected to a CU that support mobile IAB. Think the case that mobile IAB node connect to a non-capable network should be avooided

- For P3, QC tink that a mobile IAB node could connect to legacy IAB capable network but may prefer Mobile IAB capable network.

- HW agrees with QC

- IDT support P1. Think P2 may need to be checked. Think for P3 agree we need to consider the migration case. P4: IDT think that mobility info for mobile IAB node is needed. DT agrees abd would not like to see things left for UE impl

- SS think we can agree P1 P2 and part of P4.

P4

- DT cannot agree to this, it need to be standardized. VDF agrees that there should be a behaviour associated with this bit. Ericsson think we then also need to specify how aa UE considers itself onboard. AT&T and Verizon also think behaviour is needed.

- Xiaomi think this indicator can give added value. HW think this is just for UE better performance for Rel18

- ZTE think CAG is one way as well. QC think this is SI discussions and we cannot assume anything.

- Xiaomi agrees that onboard criterion is important.

* R2 assumes that It is up to RAN3 or SA2 to decide whether to support early mobile IAB indication in Msg5 because it depends whether donor CU needs to select an AMF supporting mobile IAB.
* R2 assumes that Donor CU can determine mobile IAB node's moving status via legacy reporting (e.g. mobility state and UE location / velocity specified in SON/MDT), i.e. R2 assumes enhanced / new reporting is not needed.
* A mobile IAB node may camp on and connect to legacy Rel-16/Rel-17 IAB capable cell.
* R2 assumes "supporting mobile-IAB" indication is provided by Rel-18 Mobile IAB capable parent cell.
* Regarding the assumed mobile-IAB cell type indication, RAN2 assumes is may be specified if some related UE behaviour is specified.

[R2-2212916](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212916.zip) Discussion on reselection and miscellaneous issues LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

P1-P4 only, if treated

* noted

Connected mode Mobility

[R2-2211473](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211473.zip) Enhancements for IAB-node mobility Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

*Observation 4-1: The following observations are made about the group-mobility options:*

*- Option 1 supports legacy UEs and needs only little specification effort.*

*- Option 2 does not support legacy UEs and needs the most specification effort.*

*- Option 3 supports Rel-16/17/18 UEs and needs at most St2 specification.*

*Proposal 4-1: Discuss if group mobility option 1 is needed.*

*Proposal 4-2: Deprioritize group mobility option 2.*

*Proposal 4-3: Support group mobility option 3 and discuss if stage-2 description is needed.*

DISCUSSION

- Ericsson are ok with the proposals.

- QC think 4-1 is feasible.

- SS agrees that option1 can work with the merit that legacy UEs can be supported, and the characteristics can be controlled by network impl, e.g. spead out in time.

- vivo agrees with 4-2, think option 3 should have high priority.

- Intel think that the conventional handover is sufficient when we have time.

- Apple think we can agree 4-2, think we can confirm that 4-1 and 4-3 can work.

- AT&T think that explicit triggering of CHO can be useful especially when the migration is very time constrained.

- ZTE agrees with 4-2 and 4-3, think 4-1 has spec impact in R3.

- LG think we need to resolve issues of all UEs connecting at the same time.

- IDT think option 3 is a generalized form of option 2. Think the NTN CHO with time window is not what we assume here .. IDT think we need new triggering conditions.

Chair: From Companies opinions, there seems to be a significant bar for enhancements for connected mode mobility, It seems that Options 1 and 3 (as they are Rel17 and earlier with no change) are favored by many companies.

[R2-2212917](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212917.zip) Connected mode mobility for onboard Ues LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

Miscellaneous

[R2-2212970](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212970.zip) Enhancements for IAB node mobility Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2212015](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212015.zip) Mobile IAB mobility enhancement Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2211374](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211374.zip) Mobility enhancement of mobile IAB-node and served UEs Intel Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2211621](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211621.zip) mIAB mobility enhancement aspects Samsung Electronics Romania discussion

[R2-2211804](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211804.zip) Discussion on mobile IAB Issues vivo discussion Rel-18

[R2-2211812](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211812.zip) Discussion on mobility enhancement ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2212030](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212030.zip) Mobility enhancements for mobile IAB-node and its served UE Lenovo discussion Rel-18

[R2-2212431](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212431.zip) Discussion on mobility enhancements for mIAB node Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2212504](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212504.zip) Use of mobile IAB indication for UE cell selection and reselection Beijing Xiaomi Mobile Software discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2212523](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212523.zip) Mobility enhancements for mobile IAB Kyocera discussion Rel-18 R2-2210429

[R2-2212542](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212542.zip) On IAB node mobility state and associated UE behavior InterDigital, Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2212732](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212732.zip) Mobility enhancements for group mobility AT&T discussion

[R2-2212187](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212187.zip) Enhancements for IAB node mobility Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

=> Revised in [R2-2212970](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212970.zip)

### 8.12.3 Other

Define Procedures for migration/topology adaptation to enable IAB-node mobility, including inter-donor migration of the entire mobile IAB-node (full migration) [RAN3, RAN2]. Mitigation of interference due to IAB-node mobility, including the avoidance of potential reference and control signal collisions (e.g. PCI, RACH). [RAN3, RAN2].

Way Forward Discussion

**RACH**

- Ericsson wonder about RACH interference. Chair think we can take action if there is an issue. We can CB

- Ericsson think an LS to RAN1 would be good. LG think we need to identify an issue first.

- QC think there may be an issue, but don’t know how severe it is, and is this a R3 issue?

- ZTE and HW think there is Xn coordination for e.g. RACH configurations

- Apple think that if R3 see an issue they can send an LS.

See below conclusions for R2-2212432

Chair: Also - Think that a more fundamental interference analysis is not in the scope of current WI.

**PCI collision**

- R3 identified that PCI of a mobile cell can be changed, by maintaining two cells, and use UE handover (which seems ok)

- Intel think that OAM can be used for PCI collision.

* RAN2 assumes that PCI collision can be avoided, by reconfigurations, and this may be handled by RAN3. If RAN3 finds issues that RAN2 should work on then RAN2 can work. e.g. based on LS.

**TAC RANAC**

- QC report that R3 has made decisions for TAC, on only dynamic TAC. Think maybe RANAC is in RAN2 scope.

- ZTE think that e.g. for TAC the UE could be multi-registered in many applicable Tas to avoid frequent TAU.

- HW think that we should wait for the LS from R3 and R2 can next meeting to take this into account and also discuss RANAC. QC are not sure there is an LS.

- Chair: RAN2 could treat this topic at next meeting.

[R2-2212432](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212432.zip) General aspects on interference mitigation and migration for mobile IAB Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

RACH parts only

- vivo think this is not R1 or R2 topic, rootsequence collision need to be avoided, and can be avoided by configuration. Huawei agrees.

- Verizon think Xn availability cannot be assumed but possibly OAM can help resolve this.

* Noted
* RAN2 understands that RACH interference and collisions may be avoided by RACH configuration, and RACH configurations can e.g. be exchanged by Xn, so RACH interference and collisions better be handled between RAN3 and RAN1, if needed.

[R2-2211551](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211551.zip) IAB node migration with same physical cell resources at logical DUs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

P1 DISCUSSIONS

- Chair think that we abandoned this as we assume this has impact on RAN3.

- QC think NCGI is the issue, a cell cannot have multiple NCGIs

- SS don’t want to capture anything as it would then trigger discussions in other groups.

- Chair opinion: Think this can be feasible from RAN2 point of view, but controversial right now to capture anything (based on previous discussions).

* noted

[R2-2212756](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212756.zip) Consideration on full migration and interference mitigation LG Electronics Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2211375](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211375.zip) PCI collision and TAC/RANAC update of mobile IAB Intel Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2211687](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211687.zip) Further discussion on interference mitigation in mobile IAB Apple discussion NR\_mobile\_IAB-Core

[R2-2211813](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211813.zip) Discussion on topology adaptation in mobile IAB scenario ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

=> Revised in [R2-2212956](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212956.zip)

[R2-2212956](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212956.zip) Discussion on topology adaptation in mobile IAB scenario ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2211879](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211879.zip) mIAB - other key issues Samsung R&D Institute UK discussion

[R2-2211937](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211937.zip) PCI collision in mobile IAB Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2211938](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211938.zip) Handling of UE´s in RRC-Inactive mode Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2212016](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212016.zip) BAP impact in DU migration and PCI/TAC/RANAC issues for mobile IAB Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2212031](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212031.zip) Discussion on inter-donor full migration of mobile IAB Lenovo discussion Rel-18

[R2-2212450](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212450.zip) PCI collisions for Mobile IAB SHARP Corporation discussion Rel-18 R2-2210404

[R2-2212524](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212524.zip) PCI and RACH collisions on mobile IAB Kyocera discussion Rel-18 R2-2210430

[R2-2212651](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212651.zip) PCI allocation of mobile IAB cells InterDigital, Inc. discussion Rel-18 NR\_mobile\_IAB-Core

## 8.13 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: 5 tdocs

### 8.13.1 Organizational

Ls in Rapporteur input.

[R2-2211110](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211110.zip) LS on NR-U support for MRO (R3-225241; contact: Ericsson) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2211133](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211133.zip) Progress and open issues for NPN enhancements in Rel-18 (S2-2209860; contact: Ericsson) SA2 LS in Rel-18 FS\_eNPN\_Ph2, eNPN\_Ph2 To:SA1, SA3, CT1 Cc:CT3, CT4, RAN2, RAN3

[R2-2211160](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211160.zip) LS on inter-RAT SHR and SPCR (R3-226003; contact: Qualcomm) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2211161](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211161.zip) LS on user consent of Non-public Network (R3-226006; contact: ZTE) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:SA3 Cc:RAN2, SA5

[R2-2211164](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211164.zip) Reply LS on SN RACH report status in R17 (R3-226053; contact: CMCC) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

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

This agenda item will not be treated in RAN2#120

### 8.13.3 MDT override

This agenda item will not be treated in RAN2#120

[R2-2211689](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211689.zip) On MDT override protection Apple discussion NR\_ENDC\_SON\_MDT\_enh2-Core

### 8.13.4 SHR and SPCR

Focus on UE impacts. RAN3 LSin relateded aspect will be discussed.

[R2-2211613](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211613.zip) Discussion on Inter-RAT SHR and SPR CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2211884](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211884.zip) Discussion on successful PSCell change report NEC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2211992](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211992.zip) Discussion on SPR NTT DOCOMO, INC. discussion Rel-18

[R2-2212032](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212032.zip) SON enhancements for SPR Lenovo discussion Rel-18

[R2-2212033](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212033.zip) Successful Handover Report for inter-RAT HO Lenovo discussion Rel-18

[R2-2212090](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212090.zip) SPR and SHR enhancements Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212220](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212220.zip) Discussion on SHR and SPR Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212283](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212283.zip) Consideration on SHR and SPCR ZTE Corporation, Sanechips discussion Rel-18

[R2-2212290](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212290.zip) SON/MDT enhancements for SHR and SPCR Samsung R&D Institute India discussion

[R2-2212642](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212642.zip) Remaining issues on SON enhancement for SPR vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212665](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212665.zip) Discussion on SHR for inter-RAT handover and successful PSCell change reporting Qualcomm Incorporated discussion Rel-18

[R2-2212728](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212728.zip) SON enhancements on SPR Sharp discussion

[R2-2212807](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212807.zip) Discussion on SHR and SPCR Xiaomi discussion Rel-18

### 8.13.5 SON for NR-U

Focus on UE impacts. RAN2/RAN3 progress (including the RAN3 LS R2-2209105) should be considered.

[R2-2211352](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211352.zip) SON Enhancement for NR-U CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2211690](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211690.zip) RAN2 progress on SON for NR-U Apple discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212034](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212034.zip) Discussion on MRO for NR-U Lenovo discussion Rel-18

[R2-2212091](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212091.zip) Enhancements of SON reports for NR-U Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212221](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212221.zip) Discussion on SON for NR-U Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212284](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212284.zip) Consideration on NR-U related SON ZTE Corporation, Sanechips discussion Rel-18

[R2-2212300](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212300.zip) SON/MDT enhancements for NR-U Samsung R&D Institute India discussion

R2-2212452 LBT failures logging in SON\_MDT reports Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core Late

[R2-2212626](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212626.zip) SONMDT enhancement for NR-U CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212667](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212667.zip) Discussion on NR-U Related Enhancements Qualcomm Incorporated discussion Rel-18

[R2-2212808](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212808.zip) Discussion on SON for NR-U Xiaomi discussion Rel-18

### 8.13.6 RACH enhancement

Post meeting email discussion #877 will be discussed. RAN3 LSin relateded aspect will be discussed

[R2-2211353](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211353.zip) RACH Enhancement for SON CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212092](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212092.zip) RA report enhancement Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212222](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212222.zip) Discussion on RACH enhancement Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212225](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212225.zip) Report of [Post119bis-e][877][R18 SON/MDT] RACH enhancement (Huawei) Huawei discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212285](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212285.zip) Further consideration on RACH enhancements ZTE Corporation, Sanechips discussion Rel-18

[R2-2212308](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212308.zip) SON/MDT enhancements for RACH Samsung R&D Institute India discussion

[R2-2212451](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212451.zip) RACH report retrieval Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core R2-2210271 Late

[R2-2212712](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212712.zip) Further consideration on RACH Enhancement CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212738](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212738.zip) Discussion on the SONMDT enhancement for RACH report Xiaomi discussion Rel-18

[R2-2212801](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212801.zip) Discussion on RACH enhancements China Telecom discussion

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

RAN3/SA3 LSin relateded aspect will be discussed

[R2-2211354](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211354.zip) SON and MDT Enhancement for NPN CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212093](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212093.zip) SON support for NPN Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212223](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212223.zip) Discussion on SONMDT enhancements for NPN Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212250](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212250.zip) CAG IDs in SON/MDT Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212286](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212286.zip) Consideration on SON-MDT support for NPN ZTE Corporation, Sanechips discussion Rel-18

[R2-2212299](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212299.zip) SON/MDT enhancements for NPN Samsung R&D Institute India discussion

[R2-2212627](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212627.zip) SONMDT enhancement for NPN CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212643](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212643.zip) Further discussion on SON for NPN vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212670](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212670.zip) Discussion on SON/MDT enhancements for Non-Public Networks Qualcomm Incorporated discussion Rel-18

[R2-2212739](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212739.zip) Discussion on the SONMDT enhancement for NPN Xiaomi discussion Rel-18

### 8.13.8 Other

[R2-2211355](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211355.zip) Discussion on SONMDT Enhancements for CPAC and for SCG Failure in MR-DC CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212035](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212035.zip) SON enhancements for CPAC Lenovo discussion Rel-18

[R2-2212036](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212036.zip) MRO for fast MCG link recovery and SCG failure Lenovo discussion Rel-18

[R2-2212094](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212094.zip) MRO for SCG failure and fast MCG recovery optimization Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212105](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212105.zip) Discussion on CPAC failure report NTT DOCOMO, INC. discussion Rel-18

[R2-2212107](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212107.zip) Discussion on MRO for MR-DC SCG failure scenario and fast MCG recovery failure NTT DOCOMO, INC. discussion Rel-18

[R2-2212224](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212224.zip) Discussion on MRO for SCG failure and fast recovery Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212287](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212287.zip) Consideration on fast MCG recovery enhancement ZTE Corporation, Sanechips discussion Rel-18

[R2-2212298](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212298.zip) SON/MDT enhancements for Fast MCG Recovery Samsung R&D Institute India discussion

[R2-2212453](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212453.zip) MRO for Fast MCG Recovery and MR-DC CPAC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core Late

[R2-2212644](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212644.zip) Discussion on CPAC failure information vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2212672](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212672.zip) Discussion on SONMDT enhancements for MR-DC CPAC and fast MCG Recovery Qualcomm Incorporated discussion

[R2-2212713](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212713.zip) SONMDT enhancement for fast MCG recovery CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212714](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212714.zip) SON MDT enhancement for MR-DC CPAC CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212729](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212729.zip) Discussion on failure information for CPAC Sharp discussion R2-2210517

[R2-2212730](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212730.zip) Discussion on RLF report in fast MCG recovery Sharp discussion R2-2210523

[R2-2212849](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212849.zip) Discussion of SON on MR-DC CPAC OPPO discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2212850](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212850.zip) SON on fast MCG recovery OPPO discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

## 8.14 Enhancement on NR QoE management and optimizations for diverse services

(NR\_QoE\_enh-Core; leading WG: RAN3; REL-18; WID: RP-221803)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.14.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan

[R2-2211162](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211162.zip) LS on RAN visible QoE value (R3-226014; contact: Huawei) RAN3 LS in Rel-18 NR\_QoE\_enh-Core To:SA4 Cc:RAN2

[R2-2211166](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211166.zip) LS on including QoS flow information in the RAN visible QoE report over Uu (R3-226062; contact: Huawei) RAN3 LS in Rel-18 NR\_QoE\_enh-Core To:RAN2 Cc:SA4, CT1

[R2-2212932](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212932.zip) Revised Work plan for Rel-18 NR QoE Enhancement China Unicom Work Plan Rel-18 NR\_QoE-Core

### 8.14.2 QoE measurements in RRC\_IDLE INACTIVE

including discussion on RRC configuration of QoE measurements in RRC\_IDLE/INACTIVE for MBS broadcast services, e.g. how can the configuration be given, how does gNB know which UEs can be configured, how is the area scope handled, how long does UE retain the QoE configuration in IDLE/INACTIVE, what are the UE memory requirements for MBS QoE reporting, etc.

[R2-2211450](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211450.zip) Discussion on QoE measurement in RRC\_IDLE and RRC\_INACTIVE Samsung discussion Rel-18

[R2-2211713](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211713.zip) Discussions on QoE Measurements in IDLE/INACTIVE States Apple discussion NR\_QoE\_enh-Core

[R2-2211800](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211800.zip) QoE collection for IDLE and Inactive state Qualcomm Incorporated discussion NR\_QoE\_enh

[R2-2212008](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212008.zip) Discussion on QoE measurement in IDLE and INACTIVE state CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212192](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212192.zip) Discussion on QoE measurements for MBS broadcast services Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212288](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212288.zip) Discussion on QoE measurement in IDLE and INACTIVE ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212457](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212457.zip) QMC enhancements for NR MBS Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core Late

[R2-2212458](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212458.zip) Discussion on support of QoE measurements in RRC\_IDLE and RRC\_INACTIVE Lenovo discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212466](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212466.zip) QoE measurements in NR-DC Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212635](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212635.zip) Consideration on QoE measurement in RRC\_IDLE and RRC\_INATIVE CMCC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212795](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212795.zip) Disucssion on QoE measurements in RRC\_IDLE and RRC\_INACTIVE China Telecom discussion

[R2-2212938](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212938.zip) Discussion on QoE measurements in RRC\_IDLE and INACTIVE states China Unicom discussion Rel-18 NR\_QoE-Core R2-2210754

### 8.14.3 Rel-17 leftover topics for QoE

Including discussion on Rel-17 leftover topics as agreed in RAN2#119bis-e.

This agenda item will not be treated in this meeting.

### 8.14.4 Support of QoE measurements for NR-DC

Including discussion on support of QoE measurements for NR-DC, e.g. MN-SN coordination, bearer handling for SN QoE reporting, etc.

[R2-2211451](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211451.zip) Discussion on QoE measurement for NR-DC Samsung discussion Rel-18

[R2-2211714](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211714.zip) QoE Reporting in NR-DC Apple discussion NR\_QoE\_enh-Core

[R2-2211805](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211805.zip) RAN2 issues to support QoE collection in NR-DC Qualcomm Incorporated discussion NR\_QoE\_enh

[R2-2212009](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212009.zip) Discussion on QoE measurement in NR-DC CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212193](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212193.zip) Discussion on QoE measurements in NR-DC Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212289](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212289.zip) Discussion on QoE measurement for NR-DC ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212456](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212456.zip) QMC support on NR-DC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core Late

[R2-2212459](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212459.zip) Discussion on support of QoE measurements for NR-DC Lenovo discussion Rel-18 NR\_QoE\_enh-Core Late

[R2-2212465](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212465.zip) QoE configuration and reporting for RRC\_INACTIVE and RRC\_IDLE states Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2212754](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212754.zip) QoE reporting continuity in NR-DC LG Electronics Inc. discussion Rel-18

[R2-2212940](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212940.zip) Discussion on QoE configuration and reporting for NR-DC China Unicom discussion Rel-18 NR\_QoE-Core

### 8.14.5 Other topics

Including any other QoE enhancement discussion (e.g. service type aspects, QoE continuity).

This agenda item will be deprioritized in this meeting.

[R2-2212855](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212855.zip) Recommended bitrate for XR services MediaTek Inc. discussion Rel-18

## 8.15 NR Sidelink evolution

(NR\_SL\_enh2; leading WG: RAN1; REL-18; WID: RP-221938)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

Note some agenda item(s) may use pre-meeting discussion based on a summary document.

### 8.15.1 Organizational

Incoming LS and rapporteur inputs.

[R2-2211209](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211209.zip) Work plan of R18 SL-Evo OPPO, LG Work Plan Rel-18 NR\_SL\_enh2

### 8.15.2 SL-U: RAN2 scope

Including further discussion/details on CAPC and (consistent) LBT failure, other impacts to MAC (resource allocation, DRX operation, etc.) and any other RAN2 scopes.

[R2-2211236](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211236.zip) Discussion on CAPC definition in SL-U OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2211237](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211237.zip) Discussion on LBT impact in SL-U OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2211320](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211320.zip) Further discussion on RAN2 impact due to SL LBT vivo discussion

[R2-2211321](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211321.zip) Further discussion on SL CAPC vivo discussion

[R2-2211507](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211507.zip) Aspects of channel access mechanisms Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2211508](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211508.zip) CAPC table and MAC multiplex rules Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2211553](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211553.zip) Remaining issues on CAPC for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2211554](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211554.zip) Discussion on LBT for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2211614](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211614.zip) On CAPC for SL-U Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2211615](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211615.zip) SL-U LBT MAC issues Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2211625](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211625.zip) Consideration on CAPC for SL-U CATT discussion Rel-18 NR\_SL\_enh2

[R2-2211626](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211626.zip) Further Discussion on SL-specific Consistent LBT failure CATT discussion Rel-18 NR\_SL\_enh2

[R2-2211628](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211628.zip) CAPC and COT sharing for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2211629](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211629.zip) Consistent LBT Failure Detection and Recovery InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2211640](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211640.zip) Discussion on RAN2 aspects in SL-U LG Electronics France discussion Rel-18 NR\_SL\_enh2

[R2-2211684](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211684.zip) Further discussion on control plane aspects of SL-U Apple discussion NR\_SL\_enh2

[R2-2211685](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211685.zip) Further discussion on user plane aspects of SL-U Apple discussion NR\_SL\_enh2

[R2-2211855](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211855.zip) Discussion on CAPC in SL-U ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

R2-2211856 Discussion on MAC related aspects for SL-U ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2 Withdrawn

[R2-2211950](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211950.zip) Discussion on LBT for sidelink operation on unlicensed spectrum Xiaomi discussion

[R2-2211951](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211951.zip) Discussion on channel access for sidelink operation on unlicensed spectrum Xiaomi discussion

[R2-2212021](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212021.zip) Discussion on LBT impact to MAC for NR SL-U Lenovo discussion Rel-18

[R2-2212122](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212122.zip) Further details on the channel access priority for NR SL-U Lenovo discussion Rel-18 NR\_SL\_enh2-Core

[R2-2212157](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212157.zip) Remaining issues on channel access priority in SL-U Spreadtrum Communications discussion Rel-18

[R2-2212158](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212158.zip) LBT failure handling for SL-U Spreadtrum Communications discussion Rel-18

[R2-2212406](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212406.zip) Considerations on resource allocation for SL-U Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2 R2-2210342

[R2-2212409](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212409.zip) On channel access priority class and HARQ feedback Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_enh2 R2-2210357

[R2-2212442](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212442.zip) SL CAPC Samsung Research America discussion Rel-18 NR\_SL\_enh2

[R2-2212443](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212443.zip) SL resource allocation in SL-U Samsung Research America discussion Rel-18 NR\_SL\_enh2

[R2-2212496](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212496.zip) Discussion on CAPC definition for SL-U NEC Corporation discussion

[R2-2212673](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212673.zip) Channel Access Priority Classes for SL-U MediaTek Inc. discussion Rel-18

[R2-2212674](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212674.zip) HARQ-based Sidelink RLF due to LBT failure MediaTek Inc. discussion Rel-18

[R2-2212681](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212681.zip) Discussion on sidelink CAPC Qualcomm India Pvt Ltd discussion

[R2-2212689](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212689.zip) Discussion on sidelink LBT impact Qualcomm India Pvt Ltd discussion

[R2-2212797](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212797.zip) Discussion on sidelink un-licensed ITL discussion Rel-18

[R2-2212847](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212847.zip) Discussion on RAN2 Aspects in SL-U Fraunhofer IIS discussion NR\_SL\_enh2

[R2-2212924](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212924.zip) Discussion on MAC related aspects for SL-U ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

## 8.16 Artificial Intelligence Machine Learning for NR air interface

(FS\_NR\_AIML\_air; leading WG: RAN1; REL-18; WID:RP-Xxxxxx)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Technical input will be prioritized, Organizational aspects may not be treated.

### 8.16.1 Organizational

LS ins. Rapporteur input.

[R2-2212996](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212996.zip) Rapporteur remarks and contributions overview Ericsson, Qualcomm inc. discussion Rel-18 FS\_NR\_AIML\_air

Observation 1 For “AIML methods” and the different use cases, RAN2 could refer to the following scenarios.

Scenario 1: One-sided AI/ML model at NW side or UE side (limited spec. impact).

Scenario 2: One-sided AI/ML model at NW side, with UE-related model LCM signalling.

Scenario 3: One-sided AI/ML model at UE side, with NW-related model LCM signalling.

Scenario 4: Two-sided AI/ML model, with model LCM signalling.

DISCUSSION

Observation 1:

- Chair wonder if we should endorse the scenarios. They seem more useful to R2 then the R1-defined concepts.

- OPPO think there is no harm to have these scenarios.

- Samsung wonder if we should elaborate more on these scenarios

- ZTE think that for scenario 1 there may not be R2 impact but data collection for network.

- Apple think these will cause confusion for RAN1

- Chair: some objection comments, so lets not spend too much time on these scenarios, no consensus.

P1

- vivo think we shall not focus on transparent case. QC doesn’t agree, assumptions on transp model transfer it anyway has impacts

- CATT think this is ok

- TMO: R1 has a hard time defining what a model is. Think this will be difficult to agree.

- Chair: then a large number of non-captured comments, no consensus to agree. As most other proposals were organizational in nature thy were skipped

* noted

### 8.16.2 AIML methods

Explore AIML methods that are expected applicable to this SI and their expected or potential architecture (allocation of functionality to entities), Identification of Models, other framework aspects, impact on RAN2 and in general.

[R2-2212405](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212405.zip) Discussion on AI/ML model life cycle management InterDigital, Inc. discussion Rel-18 FS\_NR\_AIML\_air

DISCUSSION

P1

- Nokia would like to know what is the model ID. Think R2 should wait for R1 functional UD.

- OPPO want to clarify what unique means, local or global? QC think that for LCM uniqueness is required support P1. Ericsson support P1 think LCM should be supported for many cases so it should be useful for this.

- vivo think that uniqueness dep on the use case.

- TMO think we need to care about security. Think that global ID makes it useful for MGMT in general.

- Apple support P1. Uniqueness beyond UE-network FFS.

P2

- QC agrees with P234

- Nokia agrees with QC.

- ZTE support P2 P4

P3

- OPPO think R1 has agree it can be used for activate deactivate switch

- CMCC support P2 P4

General

- Nokia think that Model ID shall be defined in RAN1, as they are already defining such thing.

* R2 assumes that model ID can be used to identify which AI/ML model is being used in LCM including model delivery.
* R2 assumes that model ID can be used to identify a model (or models) during model selection/activation/deactivation/switching (can later align with R1 if needed).

[R2-2212659](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212659.zip) Discussion on AI/ML methods Qualcomm Incorporated discussion Rel-18

Proposal 1: “OTT server” can be included as an entity for functionalities mapping.

DISCUSSION

- ZTE think the OTT server is the same as APP layer. QC think R1 are studying certain processes.

- HW think OTT server is out of 3GPP scope.

- IDT think a limited part of LCM can be done there.

- Ericsson think this we should not capture this

- Intel agrees with P1

Chair: It is allowed to discuss/determine that functionality can be done outside 3GPP system scope, i.e. OTT server. NO agreement for now on the specifics due to long discussion.

Proposal 3: RAN2 should consider a new data collection framework for collecting required data for AI/ML offline training.

DISCUSSION

- QC think we can consider UP methods and can collect data without type checking ..

- vivo think we should first analyse the methods that we have. Think we need to first decide what data to collect.

- AT&T support qualcomm. MDT has some drawbacks. Data may not be defined ahead of time

- IDT agrees that some changes may be required but think we cannot agree now.

- Apple think this is too early, dep on R1 progress.

- VZw think R3 framework can be considered.

- OPPO think R2 and R3 is different. We need to know what data is required.

- Lenovo think we can limit the proposal to the current use cases.

- Nokia think that Data collection fwk is very important. Can learn from R3. Agree with Lenovo that we can start with specific scope.

- Verizon think that we need to start from existing data collection frameworks.

Proposal (modified) Requirements for Data collection should include data collection for model updates / offline training, and non-real-time monitoring (for decision to retrain etc)

DISCUSSION

- Lenovo think this need to UC specific.

- ZTE are confused about non-real-time, offline training.

- Sony wonder if this is for offline training only. QC think we need to consider the scenario that we don’t know a priori what data is needed.

- MTK think we should wait for R1

- xaomi understands that data collection is jus for data which can be used in different procedure, should talk about data instead.

- Apple think this is not aligned with R1.

- Intel wonder if this is just the input data or also result data, cannot use a single agreement to cover all .. QC think data for training and monitoring are different.

- Nokia agrees that we need more data and need modifications in the system but not clear that a new framework is needed.

- Verizon don’t want to expose unknown data to an unknown server.

* noted

[R2-2212226](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212226.zip) Discussion on AIML methods Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

Model transfer and delivery

- OPPO think that this is discussed in R1 but think R2 should decide.

- Apple think positioning is part of CN so it is applicable. Nokia agrees that we need to CN based delivery. Would like to study pros and cons

- Inte agrees with HW, but think we first need to conclude entity mapping, think we need model size, latency requirements, Chair wonder if we need assumptions on how frequently we update the model, e.g. every cell?

- vivo think whether we involve the CN or not dep on the use case.

* For model transfer/delivery for AI/ML models (for the target use cases of this SI), RAN2 to study CP-based, UP-based solutions

Continuation:

Long email discussion for next meeting on model transfer/delivery, to collect pros/cons, Can also collect comments on different architectural assumptions (Huawei)

Long email discussion for next meeting, on data collection (focus on monitoring and training), on to what extent existing methods can be useful including also identifying these existing methods and their potential extensions (vivo/Ericsson)

* [Post120][053][AIML18] model transfer delivery (Huawei)

Scope: Long email discussion for next meeting on model transfer/delivery, to collect pros/cons, Can also collect comments on different architectural assumptions.

Intended outcome: Report

Deadline: Long

* [Post120][054][AIML18] model transfer delivery (Ericsson / vivo)

Scope: Long email discussion for next meeting, on data collection (focus on monitoring and training), on to what extent existing methods can be useful including also identifying these existing methods and their potential extensions

Intended outcome: Report

Deadline: Long

[R2-2211610](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211610.zip) Discussion on RAN2 aspects for LCM MediaTek Inc. discussion

[R2-2211192](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211192.zip) AIML Methods Discussion in General OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2211234](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211234.zip) Further discussion on AIML methods vivo discussion Rel-18 FS\_NR\_AIML\_air

[R2-2211241](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211241.zip) Further discussions on general aspects of AIML for NR air-interface CATT discussion FS\_NR\_AIML\_air

[R2-2211293](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211293.zip) Discussion on AI/ML Model Management Framework TCL Communication Ltd. discussion Rel-18 R2-2210461 Late

[R2-2211455](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211455.zip) General aspects of AI/ML air interface and RAN2 impact Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

[R2-2211683](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211683.zip) Further discussion on RAN2 aspects of AI/ML for air interface Apple discussion FS\_NR\_AIML\_air

R2-2211831 Discussion on the AIML methods for general aspects of AIML via air interface Fujitsu discussion Rel-18 FS\_NR\_AIML\_air Withdrawn

[R2-2211850](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211850.zip) Discussion on the AIML methods for general aspects of AIML via air interface Fujitsu discussion Rel-18 FS\_NR\_AIML\_air

[R2-2211877](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211877.zip) Discussion on AIML for NR air interface Xiaomi discussion

[R2-2211939](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211939.zip) Some considerations about model ID and CP/UP solution Sony discussion Rel-18 FS\_NR\_AIML\_air

[R2-2211989](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211989.zip) AI/ML Capability Reporting and Collaboration Levels Samsung Electronics Nordic AB discussion

[R2-2211990](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211990.zip) AI/ML Model Management Samsung Electronics Nordic AB discussion

[R2-2212000](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212000.zip) Discussions on General Aspects of AI/ML Framework TCL Communication Ltd. discussion

[R2-2212023](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212023.zip) General issues on AI for air interface Lenovo discussion Rel-18

[R2-2212165](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212165.zip) Discussion on AMML methods Spreadtrum Communications discussion Rel-18

[R2-2212494](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212494.zip) General aspects for AIML for NR air interface Ericsson discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212541](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212541.zip) Possible framework of AI/ML for air interface NEC discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212551](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212551.zip) Consideration on General Apsect of AI Study ZTE Corporation,Sanechips discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212623](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212623.zip) Discussion on AIML methods for NR air interface CMCC discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212733](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212733.zip) Protocol aspects of AI/ML framework for NR air interface AT&T discussion

[R2-2212848](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212848.zip) Discussion on model ID and model transfer NTT DOCOMO INC. discussion Rel-18

[R2-2212915](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212915.zip) Baseline procedure for ML model lifecycle management LG Electronics discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212935](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212935.zip) On the RAN2 impacts of AIML methods Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

### 8.16.3 Use case specific aspects

Explore potential impact of the specific use cases, and the related AIML methods. Authors are asked to kindly structure subclauses, observations, proposals according to use case. Note that RAN2 is dependent on RAN1 progress to make detailed decisions.

[R2-2212660](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212660.zip) Discussion on the use case specific aspects Qualcomm Incorporated discussion Rel-16

P2

- Apple think 1 is what R2 always do. Think for 3 what is simultaneous.

- ZTE wonder if this is for all types of models. QC think yes.

- QC think that 1 is not donw in general but only for this scenario.

- IDT also wonder what is simultaneous.

- CATT think this is an ok direction. Support this proposal

- Chair explains the thought that maybe this case is “complex” but not sure whether it is really complex from r2 point.

* RAN2 scope includes procedures, protocols, and signaling for two-sided CSI use case(s), e.g.

1. Ensuring UE and gNB side models are configured / applied based on their applicable configurations / scenarios.
2. Ensuring that models are matched properly at both UE and gNB sides, i.e., when a CSI encoder is used at the UE corresponding CSI decoder is used at the gNB
3. Achieving simultaneous (de)activation and switching of the two-sided model

[R2-2211193](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211193.zip) Discussion on Use Case Specific Aspects OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2211235](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211235.zip) Discussion on use case specific aspects vivo discussion Rel-18 FS\_NR\_AIML\_air

[R2-2211242](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211242.zip) Considerations on the use case specific aspects of AIML for NR air-interface CATT discussion FS\_NR\_AIML\_air

[R2-2211425](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211425.zip) Discussion on Positioning Methods Selection Considering AI/ML based Positioning TCL Communication Ltd. discussion Rel-18 R2-2210487 Late

[R2-2211761](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211761.zip) AI/ML use cases: RAN2 impact Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

R2-2211832 Discussion on use case specific aspects of AIML via air interface Fujitsu discussion Rel-18 FS\_NR\_AIML\_air Withdrawn

[R2-2211851](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211851.zip) Discussion on use case specific aspects of AIML via air interface Fujitsu discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212024](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212024.zip) Discussion on AI for air interface use cases Lenovo discussion Rel-18

[R2-2212081](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212081.zip) Consideration on AI&ML for positioning accuracy enhancement Xiaomi discussion

[R2-2212227](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212227.zip) Discussion on use case specific aspects Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212489](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212489.zip) Discussion on use case specific aspects for AI/ML InterDigital, Inc. discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212495](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212495.zip) Use cases aspect for AIML for NR air interface Ericsson discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212552](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212552.zip) Consideration on Use Cases for AI Study ZTE Corporation,Sanechips discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212624](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212624.zip) Discussion on use case specific aspects for AI/ML for NR air interface CMCC discussion Rel-18 FS\_NR\_AIML\_air

[R2-2212939](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212939.zip) Potential impacts due to the use case specific aspects Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

## 8.17 Dual Transmission/Reception (Tx/Rx) Multi-SIM for NR

(NR\_DualTxRx\_MUSIM-Core; leading WG: RAN2; REL-18; WID: RP-220955)

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

No treatment expected. If needed, LS in could be treated.

Note that the email discussion [Post119bis-e][212][MUSIM] Rel-18 MUSIM solutions (Qualcomm/vivo) will only start after RAN2#120, and is expected to be handled in RAN2#121 or RAN2#121bis-e.

## 8.18 Mobile Terminated Small Data Transmission

(NR\_NR\_MT\_SDT-Core; leading WG: RAN2; REL-18; WID: RP-213583)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

[R2-2211134](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211134.zip) LS on Time Synchronization Status notification towards UE(s) (S2-2209876; contact: Nokia) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2, RAN3, SA3 Cc:RAN1

### 8.18.1 Organizational

LS ins. Rapporteur input.

[R2-2211531](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211531.zip) Work plan for the MT-SDT WI ZTE Corporation, Sanechips Work Plan

### 8.18.2 General

*Contributions on support for paging-triggered SDT, including triggering and procedures.*

*Note: Data transmission in DL within paging message is not in scope of this WI.*

[R2-2211176](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211176.zip) Mobile Terminated Small Data Transmission in RRC\_INACTIVE Samsung Electronics Co., Ltd discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211249](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211249.zip) Supporting Mobile Terminated Small Data Transmission in RRC\_INACTIVE vivo Mobile Com. (Chongqing) discussion Rel-18 NR\_MT\_SDT-Core Late

[R2-2211283](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211283.zip) Discussion on MT-Small Data Transmission T-Mobile USA Inc. discussion Rel-18 Late

[R2-2211295](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211295.zip) Discussion on paging triggered SDT SHARP Corporation discussion NR\_MT\_SDT-Core

[R2-2211471](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211471.zip) MT-SDT Baseline Ericsson discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211532](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211532.zip) MT-SDT procedure ZTE Corporation, Sanechips discussion

[R2-2211732](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211732.zip) Discussion on MT-SDT Apple discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211867](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211867.zip) Initial considerations on MT-SDT OPPO discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211885](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211885.zip) Initial consideration on MT-SDT NEC discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211940](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211940.zip) DL SDT triggering and procedures Sony discussion Rel-18 NR\_MT\_SDT

[R2-2211982](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211982.zip) Procedures for MT SDT Xiaomi discussion Rel-18 NR\_MT\_SDT

[R2-2212010](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212010.zip) Discussion on Mobile Terminated Small Data Transmission CATT discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212120](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212120.zip) Discussion on the MT-SDT procedure Lenovo discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212162](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212162.zip) Discussion on general procedure for MT-SDT Spreadtrum Communications discussion Rel-18

[R2-2212186](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212186.zip) MT-SDT mechanism Intel Corporation discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212195](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212195.zip) MT-SDT design principles Huawei, HiSilicon discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212199](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212199.zip) Discussion on MT-SDT Qualcomm Incorporated discussion NR\_MT\_SDT-Core

[R2-2212328](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212328.zip) Mobile terminated SDT InterDigital discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212382](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212382.zip) MT-SDT procedure Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212581](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212581.zip) Discussion on MT-SDT LG Electronics Inc. discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212701](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212701.zip) Discussion on MT-SDT CMCC discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212798](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212798.zip) Mobile-terminated small data transmission China Telecom discussion

[R2-2212839](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212839.zip) Stage-2 discussion on MT-SDT procedure MediaTek Inc. discussion Rel-18 NR\_MT\_SDT-Core

## 8.19 R18 Other

Misc Impacts from Other RAN WGs and TSGs (incl MC Enhancements). LS ins for Rel-18 topics that has no RAN WI.

Time budget: 0.5 TU

Tdoc Limitation: -

LS in no action

[R2-2211127](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211127.zip) Reply LS on starting a timer in RRC-inactive state (S2-2209265; contact: Huawei) SA2 LS in Rel-18 5GProtoc18 To:CT1 Cc:RAN2

* Noted

Long eDRX Inactive (Redcap R18)

[R2-2211136](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211136.zip) LS On long eDRX support for RRC\_INACTIVE (S2-2209958; contact: Ericsson) SA2 LS in Rel-18 NR\_REDCAP\_Ph2 To:RAN3, RAN2

* Noted

[R2-2212780](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212780.zip) Discussion on long eDRX cycle support for RRC\_INACTIVE Ericsson discussion Rel-18 FS\_REDCAP\_Ph2

[R2-2211433](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211433.zip) Discussion on the reply LS to SA2 on long eDRX in RRC\_INACTIVE Huawei, HiSilicon discussion Rel-18

[R2-2212782](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212782.zip) [DRAFT] Reply LS on long eDRX support for RRC\_INACTIVE Ericsson LS out FS\_REDCAP\_Ph2 To:SA2 Cc:RAN3

* All noted
* R2 assumes that R3 will provide reply to SA2 question as it is not in R2 domain. No reply from R2 is needed. Any additional impacts to signalling, e.g. negotiation of PTW, can be discussed later (when R2 Redcap WI starts).

UL TX switching

[R2-2211153](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211153.zip) LS on UE capability and gNB configuration for UL Tx switching across 3 or 4 bands in Rel-18 (R1-2210724; contact: NTT DOCOMO) RAN1 LS in Rel-18 NR\_MC\_enh-Core To:RAN2 Cc:RAN4

- CATT observes that 3.1.3 asks RAN2 to look at some things, but it seems RAN1 has not concluded on these options. Are not sure RAN2 can conclude anything on this. Docomo think maybe not all options work, but RAN2 can down select. RAN2 can stat discussing.

- CATT think R2 can stay on higher level. Chair think we just discuss based on input.

* Noted

[R2-2211172](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211172.zip) LS on Rel-18 UL Tx switching (R4-2217741; contact: China Telecom) RAN4 LS in Rel-18 NR\_MC\_enh-Core To:RAN1, RAN2

* Noted

[R2-2212500](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212500.zip) Discussion on Rel-18 UL Tx switching based on LS from RAN1 and RAN4 NTT DOCOMO INC. discussion Rel-18

DISCUSSION

Docomo indicate that P1 P2 P4 P6 can be discussed.

P1

- CATT and HW think we need to wait for some progress. CATT e.g. think we can discuss for band-pair for dual bands as a start. Ericsson think we can agree first part of P1. Can also mention sw options.

- OPPO guess that per-band pair is just an example. Docomo think that legacy is per BC and per band-pair.

- ZTE think we need to clarify concurrent transmission, think the per-band-pair, this always involves 2 bands not more, think this is as Alt2 in the LS.

- ZTE ad QC think concurrent = dual ul.

- QC prefer Alt1. ZTE agrees.

- vivo think Alt2 is simpler

- Docomo can also accept Alt 1

- Apple think that UE can support all with switched UL but only some cases for dual UL.

- Nokia prefer Alt2

- ZTE think Alt1 is more compatible with what we have, which is a benefit. HW think Alt 2 is more compatible with what we have now

- QC think Alt 1 gives more flexibility for the UE.

- Chair: there seems to be support for Alt2 (but also some support for Alt2), we wait for more progress in R1 and R4.

P2

- ZTE think P2 and P4 are agreeable, but we should send LS to R4 to check. CATT think we don’t need an LS.

- Ericsson think this was agreed already in R4.

P4

- CATT and HW think we need to consider fallback. Ericsson think R4 request same capability as R17, which motivates using the same field.

- Docomo think that the solution that fallback is explicitly described e.g. in FD.

- HW think that R17 cap is per band per BC which is the same as R18, so ok.

P6

-

- Docomo proposes to postpone.

* R2 assumes For UE capability to report applicability of DL interruption for Rel-18 UL Tx switching, RAN2 reuses *uplinkTxSwitching-DL-Interruption-r16* (no spec impact).
* R2 assumes to reuse the per band per BC capability, *uplinkTxSwitching2T2T-PUSCH-TransCoherence-r17*, on UL-MIMO coherence for the 2Tx-capable UL band(s) for Rel-18 UL Tx switching (fallback description FFS).

[R2-2211221](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211221.zip) Discussion on R18 UL Tx Switching OPPO discussion Rel-18 NR\_MC\_enh-Core

[R2-2211454](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211454.zip) Discussion on Rel-18 UL Tx switching capability and configuration CATT discussion Rel-18 NR\_MC\_enh-Core

[R2-2211668](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211668.zip) discussion on UE capability and RRC configuration for UL tx switching vivo discussion Rel-18

[R2-2211742](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211742.zip) Discussion on UL Tx switching Apple discussion Rel-18 NR\_MC\_enh-Core

[R2-2211755](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211755.zip) RAN2 impact to support Rel-18 UL Tx switching enhancements Huawei, HiSilicon discussion Rel-18 NR\_MC\_enh-Core

[R2-2211907](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211907.zip) Discussion on Rel-18 UL Tx switching capability and configuration ZTE Corporation, Sanechips discussion Rel-18 NR\_MC\_enh-Core

[R2-2212391](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212391.zip) On RAN2 aspects for UL TX switching Rel-18 Ericsson discussion

SENSE

[R2-2211344](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211344.zip) Discussion on RAN2’s impact of SENSE OPPO discussion Rel-18 R2-2210098

- LG think we don’t need AS impact. For HQ PLMN LGE think that SENSE doesn’t need to select. Thus no impact.

- Huawei think that the OPPO solution is workable, but think that also cell selection is impacted.

- DT think we don’t need RSRP for HQ PLMNs. VDF agrees,

- vivo has sympathy for LG but think this is complex.

- QC think the objective for the WI is cell edge UE and for those, RSRP is reported.

- Nokia think we don’t need to change. Thales agrees. Ericsson agrees.

* AS currently supports reporting to NAS of RSRP for non-high-quality PLMNs for the purpose of PLMN selection.
* RAN2 believes the current AS support is in line with the SENSE WI objectives and no AS impact is expected.

Offline 036, capture the agreements above and report in an LS to CT1 (DT)

[R2-2212997](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212997.zip) Reply LS on SENSE feature RAN2 LS out Rel-18 SENSE To:CT1 Cc:SA1

* LS out is approved

[R2-2211345](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211345.zip) 36.304 CR on SENSE OPPO CR Rel-18 36.304 17.2.0 0855 1 B NB\_IOTenh3-Core, LTE\_eMTC5-Core R2-2210099

[R2-2211346](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211346.zip) 38.304 CR on SENSE OPPO CR Rel-18 38.304 17.2.0 0286 1 B NR\_newRAT-Core R2-2210100

[R2-2211895](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211895.zip) Discussion on RAN Aspects of Signal Level Enhanced Network Selection Huawei, HiSilicon discussion Rel-18 R2-2210529

[R2-2211896](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211896.zip) Reply LS on SENSE feature Huawei, HiSilicon LS out Rel-18 R2-2210532 To:CT1 Cc:SA1

[R2-2211973](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211973.zip) SENSE and RAN2 impacts Nokia, Nokia Shanghai Bell discussion Rel-18 TEI18

[R2-2212772](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212772.zip) Discussion on SENSE feature vivo discussion Rel-18

[R2-2212773](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212773.zip) 38.304 CR on SENSE feature vivo CR Rel-18 38.304 17.2.0 0315 - F SENSE

[R2-2212774](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212774.zip) Reply LS on SENSE feature vivo LS out Rel-18 To:CT1 Cc:SA1

[R2-2212897](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212897.zip) Discussion on SENSE feature Deutsche Telekom, Thales, Ericsson, Telecom Italia discussion Rel-18 SENSE

[R2-2212907](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212907.zip) [DRAFT] Reply LS on SENSE feature Deutsche Telekom LS out Rel-18 SENSE To:CT1 Cc:SA1

[R2-2212910](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212910.zip) Discussion on SENSE feature’s use cases Deutsche Telekom, Ericsson, Telecom Italia, Thales discussion Rel-18 SENSE

[R2-2212911](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212911.zip) Considerations on SENSE feature Deutsche Telekom, Ericsson, Telecom Italia, Thales discussion Rel-18 SENSE

[R2-2211274](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211274.zip) Further considerations on SENSE feature THALES discussion

DSS

[R2-2211105](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211105.zip) LS to RAN2 on two overlapping LTE-CRS patterns in Rel-18 DSS (R1-2208194; contact: ZTE) RAN1 LS in Rel-18 NR\_DSS\_enh To:RAN2

* Noted

[R2-2211910](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211910.zip) Running TS38.306 CR for R18 DSS ZTE Corporation, Ericsson draftCR Rel-18 38.306 17.2.0 B NR\_DSS\_enh

[R2-2212386](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212386.zip) Running 38.331 CR for R18 DSS Ericsson, ZTE Corporation CR Rel-18 38.331 17.2.0 3697 - B NR\_DSS\_enh-Core

DISCUSSION

- Ericsson explains that the CRs just captures what has been requested.

- HW has checked the CRs and they seem ok.

* Both CRs above are endorsed (as running CRs)

NS values extension

Wait for R4 Reply LS

[R2-2211167](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211167.zip) Reply LS on RAN dependency of FS\_eNS\_Ph3 (R3-226083; contact: ZTE) RAN3 LS in Rel-18 FS\_eNS\_Ph3 To:SA2 Cc:RAN2

[R2-2212154](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212154.zip) Extending AdditionalSpectrumEmission for more NS values Ericsson CR Rel-17 38.331 17.2.0 3680 - F NR\_unlic\_enh

URLLC R18

NOTE: This topic is handled in Diana’s breakout session

UL scenario of reactive RAN feedback for burst sending time adjustment

[R2-2211135](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211135.zip) LS on UL scenario of reactive RAN feedback for burst sending time adjustment (S2-2209879; contact: Huawei) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2 Cc:RAN3

[R2-2211557](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211557.zip) Discussion on reactive RAN feedback for burst sending time adjustment Huawei, HiSilicon discussion Rel-18

[R2-2211558](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211558.zip) Draft Reply LS on UL scenario of reactive RAN feedback for burst sending time adjustment Huawei, HiSilicon Rel-18 LS out Rel-18 FS\_5TRS\_URLLC To:SA2 Cc:RAN3

[R2-2211779](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211779.zip) Discussion on SA2 LS on UL scenario of reactive RAN feedback for burst sending time adjustment Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_5TRS\_URLLC

[R2-2212419](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212419.zip) Discussion on reactive RAN feedback for burst sending time adjustment Ericsson discussion Rel-18

[R2-2212478](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212478.zip) Discussion of SA2 LS on RAN UL burst sending time adjustment Qualcomm Incorporated discussion Rel-18

Time Synchronization Status notification towards UE(s)

[R2-2211134](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211134.zip) LS on Time Synchronization Status notification towards UE(s) (S2-2209876; contact: Nokia) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2, RAN3, SA3 Cc:RAN1

[R2-2211994](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211994.zip) Consideration on Time Synchronization Status notification towards UE(s) ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2211997](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211997.zip) Reply LS on Time Synchronization Status notification towards UE(s) ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd LS out NR\_IIOT\_URLLC\_enh-Core To:SA2, RAN3, SA3 Cc:RAN1

[R2-2211559](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211559.zip) Discussion on Time Synchronization Status notification towards UE(s) Huawei, HiSilicon discussion Rel-18

[R2-2211777](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211777.zip) Discussion on SA2 LS on Time Synchronization Status notification towards UE(s) Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_5TRS\_URLLC

[R2-2211778](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211778.zip) Draft LS response on 5GS time synchronization status report towards UE(s) Nokia, Nokia Shanghai Bell LS out Rel-18 FS\_5TRS\_URLLC To:SA2

[R2-2212418](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212418.zip) Analysis of alternatives for sending time synchronization status Ericsson discussion Rel-18

[R2-2212480](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212480.zip) Discussion of SA2 LS on Time Synchronization notification to UE Qualcomm Incorporated discussion Rel-18

Withdrawn, handled last meeting

[R2-2211123](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2211123.zip) LS on RAN feedback for low latency (S2-2201767; contact: Huawei) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2 Cc:RAN1, RAN3

Positioning

NOTE: This topic is handled in Nathans Breakout session.

[R2-2212244](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212244.zip) On Positioning Support for L2 UE-to-Network Remote UEs Qualcomm Incorporated discussion R2-2210367

[R2-2212372](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2212372.zip) Relay based Positioning Procedure Ericsson discussion Rel-17

# 9Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

## 9.1 Session on NTN, IoT NTN, RedCap and CE

[R2-2213001](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213001.zip) Report from Break-Out Session on NTN, IoT NTN, RedCap and CE Vice Chairman (ZTE) Report

* approved

## 9.2 Session on LTE legacy, 71 GHz, DCCA, Multi-SIM, RAN slicing, QoE and XR

[R2-2213002](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213002.zip) Report from session on LTE legacy, 71 GHz, DCCA, Multi-SIM, RAN slicing, QoE and XR Vice Chairman (Nokia) Report

- session chair report that due to cut down of QoE session this meeting it will have some more time next meeting.

* approved

**Comeback: XR LS out**

[R2-2213225](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213225.zip) Draft LS on PDU Set Handling Nokia LS out Rel-18 FS\_XRM, FS\_NR\_XR\_enh To:SA2, SA4 Cc:-

* Approved, in R2-2213351

Email discussion [Post120][000]

Wrt R2-2213002, the below tdoc status clarifications/corrections were found necessary. With these corrections R2-2213002 remains approved.

[R2-2211367](https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_RAN%2FWG2_RL2%2FTSGR2_120%2FDocs%2FR2-2211367.zip&data=05%7C01%7Chchoi5%40lenovo.com%7Cd9f4117a6eef48a58d0508dacd4df65e%7C5c7d0b28bdf8410caa934df372b16203%7C0%7C0%7C638048032128584251%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=cdsIyc3g62e%2F7n%2BLe9UbTfy5yrmFJR%2BsoAcV6F3OfHg%3D&reserved=0) CP corrections for NR operation to 71GHz        ZTE Corporation (rapporteur)     CR      Rel-17  38.331  17.2.0  3499    2       F       NR\_ext\_to\_71GHz-Core    [R2-2211055](https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_RAN%2FWG2_RL2%2FTSGR2_120%2FDocs%2FR2-2211055.zip&data=05%7C01%7Chchoi5%40lenovo.com%7Cd9f4117a6eef48a58d0508dacd4df65e%7C5c7d0b28bdf8410caa934df372b16203%7C0%7C0%7C638048032128584251%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=s2Hi%2Fxb48YJoZA5QHB2RC8UXLO5PbgXk18b1SfU3D9o%3D&reserved=0)

* [Post120][000] Merged into R2-2213258

[R2-2213258](https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_RAN%2FWG2_RL2%2FTSGR2_120%2FDocs%2FR2-2213258.zip&data=05%7C01%7Chchoi5%40lenovo.com%7Cd9f4117a6eef48a58d0508dacd4df65e%7C5c7d0b28bdf8410caa934df372b16203%7C0%7C0%7C638048032128584251%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=VnNBQd90tGhz%2BdWX4rBMyTnAhPNi5Nl5JNt5zWjzfHI%3D&reserved=0) CP corrections for NR operation to 71GHz Ericsson, ZTE Corporation CR Rel-17 38.331 17.2.0 3606 1 F NR\_ext\_to\_71GHz-Core R2-2211505

- Use standard wording in cover page: “This CR is mandatory to implement for UEs and networks supporting feature X”.

- Add that UE receiving extended Rel-17 list shall ignore the signalled Rel-16 list (as in the ZTE CR)

* [Post120][000] With the above changes, the CR is revised in R2-2213216

[R2-2213216](https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_RAN%2FWG2_RL2%2FTSGR2_120%2FDocs%2FR2-2213216.zip&data=05%7C01%7Chchoi5%40lenovo.com%7Cd9f4117a6eef48a58d0508dacd4df65e%7C5c7d0b28bdf8410caa934df372b16203%7C0%7C0%7C638048032128584251%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=WorFYClI95dtMl77x%2Bsgh6AVkNToVflBvOEQRrsAmas%3D&reserved=0) CP corrections for NR operation to 71GHz Ericsson, ZTE Corporation CR Rel-17 38.331 17.2.0 3606 2 F NR\_ext\_to\_71GHz-Core R2-2213258

- Some ASN.1 typos found that need to be fixed

* [Post120][000] Revised in R2-2213224, and the revision (r3) is agreed unseen

## 9.3 Session on UP, Small data, URLLC/IIoT, RACH indication, NWES and UAV

R2-2213003 Report from UP, Small data, URLLC/IIoT, RACH indication, NWES and UAV Session chair (InterDigital) Report

- Not available at EOM, for Email approval

* [Post120][000] revised in R2-2213352, revision includes the corrected Tdoc number (R2-2213265) for the approved CR related to R2-2212874

R2-2213352 Report from UP, Small data, URLLC/IIoT, RACH indication, NWES and UAV Session chair (InterDigital) Report

* [Post120][000] Approved

## 9.4 Session on positioning and sidelink relay

[R2-2213004](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213004.zip) Report from session on positioning and sidelink relay Session chair (MediaTek) Report

* Approved

Email discussion [Post120][000]

Wrt R2-2213004, the below tdoc status clarifications/corrections were found necessary. With these corrections R2-2213004 remains approved.

The status for R2-2211747 is

* [Post120][000] revised in R2-2213039

The status for R2-2211749 is

* [Post120][000] merged into R2-2213039

## 9.5 Session on LTE V2X and NR SL

[R2-2213005](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213005.zip) Report from session on LTE V2X and NR SL Session chair (Samsung) Report

- Session chair explains that the long email discussion is cancelled as LS from R1 was not sent

* Approved

## 9.6 Session on SON/MDT

[R2-2213006](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213006.zip) Report from SON/MDT session Session chair (CMCC) Report

* Approved

## 9.7 Session on MBS

[R2-2213007](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213007.zip) Report from MBS breakout session Session chair (Huawei) Report

* approved

## 9.8 Session on IDC

[R2-2213008](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213008.zip) Report from IDC breakout session Session chair (Intel) Report

* approved

## 9.9 Session on NC Repeater

[R2-2213009](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\RAN2\Docs\R2-2213009.zip) Report from NC Repeater breakout session Session chair (Apple) Report

* approved