3GPP TSG-RAN WG2 Meeting #119bis electronic R2-2xxxxxx

Online, August, 2022

Source: RAN2 Chairman (MediaTek)

Title: Agenda

# AT-Meeting Email / Offline Discussion List, Main Session

Discussions with Deadline **Schedule 1**:

A **first round** with **Deadline for comments W1 Friday Oct 14th 1000 UTC** to settle scope what is agreeable etc

A Final round with **Final deadline W2 Tuesday Oct 18th 2300 UTC** to settle details / agree CRs etc.

For all discussions: Additional deadlines check points etc if needed are defined by the Rapporteur of each discussion respectively. In case some parts of an email discussion need more time, doesn’t converge, need on-line treatment, then please contact the chair.

* [AT119bis-e][000] Organizational Main (Chair)

Scope: Opening and closing of the meeting, Treat AIs 1 & 2, LSes that do not need actions. Anything going beyond other discussions can be raised, for the meeting or Main session.

Deadline: EOM

Discussions [001] – [002] were used for Pre-discussions.

* [AT119bis-e][003][NR17] RRC corrections (Huawei)

Scope: Treat R2-2209466, R2-2210238, R2-22-9925, R2-2209926. Determine agreeable parts. For Agreeable parts progress CRs

Intended outcome: Report, Agreed-in-principle CRs.

Deadline: Schedule 1

* [AT119bis-e][004][NR17] UE caps Main (Intel)

Scope: Treat R2-2210660, R2-2210661, R2-2210565, R2-2210585 (if / when updated R1 feature list is available). Take into account updates to R1 and R4 feature lists, if they become available during the meeting. Determine agreeable parts, for agreeable parts capture in CRs,

Intended outcome: Report, Agreed-in-principle CRs (rapporteur can choose if to merge into mega CRs at current or next meeting).

Deadline: Schedule 1, or modifications by Rapporteur

* [AT119bis-e][005][NR17] Cell Reselection Frequency Prioritization (Kyocera)

Scope: Treat R2-2210459, R2-2210126, R2-2209415, R2-2209548. Determine agreeable parts, for agreeable parts capture in CR,

Intended outcome: Report, Agreed-in-principle CR.

Deadline: Schedule 1

* [AT119bis-e][006][NR17] FR2 UL Gap (Apple)

Scope: Finalize LS out and MAC CR.

Intended outcome: Approved LS out, In-principle-Agreed CR.

Deadline: W1 Friday COB (offline only)

* [AT119bis-e][007][NR17] RACH Prioritization (Ericsson)

Scope: Treat R2-2209309, R2-2210695, R2-2210696, R2-2210322, R2-2210323. Determine agreeable parts, confirm no R2 impact, confirm reply LS

Intended outcome: Report, Approved LS out

Deadline: Schedule 1

* [AT119bis-e][008][NR17] Dual PA (Samsung)

Scope: Treat R2-2209343, R2-2210134, R2-2209381, R2-2209382, R2-2210659. Determine agreeable parts, Based on agreeable parts, progress CRs

Intended outcome: Report, Agreed-in-principle CRs

Deadline: In time for CB W2 Mon (if CB is needed),

* [AT119bis-e][009][NR17] DC Location Reporting (Apple)

Scope: Treat R2-2209334, R2-2210693, R2-2210694, R2-2210240, R2-2210773, R2-2210788. Determine agreeable parts, Based on agreeable parts, progress CRs

Intended outcome: Report, Agreed-in-principle CRs

Deadline: In time for CB W2 Mon (if CB is needed),

* [AT119bis-e][010][NR17] FBG5 BW Classes (Qualcomm)

Scope: Treat R2-2209347, R2-2209621, R2-2209622, R2-2210540, R2-2210244, R2-2210662, R2-2210701, R2-2210539, R2-2209384. Determine agreeable parts, Based on agreeable parts, progress CRs, LS out if applicable

Intended outcome: Report, Agreed-in-principle CRs, Approved LS out if applicable.

Deadline: In time for CB W2 Mon (if CB is needed),

* [AT119bis-e][011][NR17] Misc (Qualcomm)

Scope: Treat R2-2209620, R2-2209798, Determine agreeable parts, Based on agreeable parts, progress CRs,

Intended outcome: Report, Agreed-in-principle CRs, Approved LS out if applicable.

Deadline: In time for CB W2 Mon (if CB is needed),

* [AT119bis-e][012][NR17] MINT (Ericsson)

Scope: Treat R2-2209305, R2-2210657, R2-2210658. Determine agreeable parts, Based on agreeable parts, progress CRs

Intended outcome: Report, Agreed-in-principle CRs.

Deadline: In time for CB W2 Mon (if CB is needed)

* [AT119bis-e][013][NR18] NS Value Extension (Apple)

Scope: Treat R2-2209344, R2-2209790, R2-2209791, R2-2210395. Ph1 Determine agreeable parts, Based on agreeable parts, progress TP/Draft CR,.   
Ph2: Reply LS out

Intended outcome: Report, Endorsed TP/Draft CR, Ph2: Approved LS out.

Deadline: Ph2 W2 Wed (offline, CB only if needed)

* [AT119bis-e][014][NR18] SENSE (Huawei)

Scope: Treat R2-2209304, R2-2209917, R2-2209918, R2-2210098, R2-2210099, R2-2210100, R2-2210515, R2-2210532, R2-2210529, R2-2210618, R2-2210631. Determine agreeable parts, Open points etc, Based on agreeable parts, progress LS out. If applicable progress TP / Draft CRs.

Intended outcome: Report, Agreeable LS out, agreeable TP/Draft CR if applicable.

Deadline: For CB W1 Fri

* [AT119bis-e][016][NR18] DSS enhancement (ZTE)

Scope: Treat R2-2209314, R2-2210636, R2-2210133, R2-2210297, R2-2210586, R2-2210587, Determine agreeable parts, Open points etc

Intended outcome: Report, Agreeable CRs if applicable.

Deadline: For CB W1 Fri

W1 Monday

* [AT119bis-e][017][NR17] CR Emergency Enh (Huawei)

Scope: Based on R2-2210492, take comments into account,

Intended outcome: In-Principle Agreed CR 38331, and 38306 if agreeable. Report if applicable

Deadline: EOM (assume offline only, late CB only if needed).

* [AT119bis-e][018][feMIMO] RRC related Corrections (Ericsson)

Scope: Based on R2-2210785, referenced tdocs, online agreements and online comments, progress unclear points to determine agreeable parts. Capture agreeable parts in a CR

Intended outcome: Report, In-principle-Agreed CR, PH2: Final approval LS out

Deadline: PH2: EOM

* [AT119bis-e][019][feMIMO] MAC related Corrections (Samsung)

Scope: Based on R2-2210796, referenced tdocs, online agreements and online comments, progress unclear points to determine agreeable parts. Capture agreeable parts in a CR.

Intended outcome: Report, In-principle-Agreed CR

Deadline: Schedule 1 (possibility for CB W2 if needed)

**Modified: [006], see above.**

W1 Tuesday

* [AT119bis-e][020][eIAB] Reply LS on FS\_VMR solutions review (Qualcomm)

Scope: We attempt to reply to RAN2 topics (if any).

Intended outcome: Report if needed, Agreeable LS out.

Deadline: CB W2 Wed

* [AT119bis-e][021][eIAB] Enhancements for Idle Inactive UE (Huawei)

Scope: Idle Inactive UEs. Make some assumptions on typical configuration and cell reselection behaviour for legacy UEs, and potential performance issues, reasonable configurations / scenarios with issues etc. List the potential enhancements proposals on the table for enhanced UEs and for such proposals clarify what is the target performance characteristic to enhance and target scenario (if any). Proponents assumed to be initially active. In a second round, Collect evaluation comments (e.g. importance, feasibility, complexity, pros-cons) for the different proposals, and whether some proposal seems unacceptable.

Intended outcome: Report, for online CB, for discussion on exclusion / keep on the table / agreement (if possible) for either issues or solution proposals or both.

Deadline: CB W2 Wed

* [AT119bis-e][022][eIAB] Dual Cells LS (AT&T)

Scope: Determine if old LSes cover already what should be asked or if new LS is needed. If new LS is needed, can consider to ask R1 to confirm feasibility for the scenarios in R18, and could ask on a high level whether there may be configuration restrictions whether some optional UE L1 features would be required, e.g. to avoid or handle interference between the two different cells that uses the same frequency / coverage / antennas, or whether there could be other restrictions.

Intended outcome: Report if needed, Agreeable LS out (if LS is agreeable)

Deadline: CB W2 Wed

W1 Wednesday

* [AT119bis-e][023][feMob] Terminology (Nokia)

Scope: continue discussion on a better name for L1L2 centric mobility. Other terminology could also be addressed, e.g. the naming of the part of the procedure when serving cell change happens could be improved, e.g.: cell change, L1L2 cell switch, LLM cell change etc.

Intended outcome: Agreeable proposal(s)

Deadline: CB W2 Monday

* [AT119bis-e][024][feMob] LS to R1 and R4 (MediaTek)

Scope: Inform R1 and R4 about agreements for AI 8.4.2.4 (at least). Can discuss if other or all agreements should be included.

Intended outcome: Agreeable LS

Deadline: CB W2 Monday

W1 Friday

**Modified: [013], see above**

W2 Monday

**Modified: [018], see above**

# 1 Opening of the meeting

**This e-Meeting**

- This e-Meeting follows 3GPP principles for e-Meetings.

- RAN2 119bis electronic has full decision power, i.e. full decision power to make agreements and approvals according to RAN WG2 terms of reference, without any need to ratify decisions at a later RAN2 or other meeting.

## 1.1 Call for IPR

|  |
| --- |
| 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 ftp server instead. Inbox/Drafts folder is used for AT-meeting offline discussions.

## 1.3 Other

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

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

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

* [000] Chair: no comments or questions received in response to email announcement of items in Agenda items 1, 1.1, 1.2 and 1.3.

# 2 General

## 2.1 Approval of the agenda

[R2-2209300](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209300.zip) Agenda for RAN2#119bis-e Chairman agenda Late

* [000] Approved

## 2.2 Approval of the report of the previous meeting

[R2-2209301](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209301.zip) RAN2#119-e Meeting Report MCC report Late

* [000] Approved

## 2.3 Reporting from other meetings

## 2.4 Instructions

Not Treated Agenda Items

- The current agenda has a number of items marked tdoc limitation: 0 and Not treated. Such Agenda items may have LS ins, and they are also not expected to be treated, but exceptions could be considered if needed.

Tdoc limitations (reminder)

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

- Assigned Editor of Running CRs input to update the running CR and input of one tdoc to facilitate addressing of CR open issues.

- 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).

Tdoc limitations applies to all other submitted tdocs.

Rel-17 CR

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 Q4 meetings. Exception: NBC aspects, if any, may need to be in a separate CR per WI (decided case by case). Note that Impact analysis is required per CR.

3. No editorial corrections for this meeting

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 have been 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

Rel-17 RRC TS version recommendation on 3GPP web site

- [000] It is proposed by RAN2 Chair and vice-chairs that the following text is captured on the 3GPP web-site for the RRC TS: “*A UE or network vendor wishing to support Rel-17 are recommended to use version 17.2.0 or later of TS 38.331*.”

- [000] There were reflector comments that TSG RAN should decide this, taking wider view into considerations. Chair: think this is mainly related to the state of the Rel-17 RRC TS, which is RAN2 expertise, so suggest RAN2 to briefly discuss.

On-Line DISCUSSION:

- Samsung support. Think that for rel-16 we have a stronger statement. Intel as well. Nokia support as well, are worried that otherwise wed need a capability indicator. AT&T support as well

- CATT support and think this is 100% aligned with TSG RAN status and has been PCG. HW vivo ericsson ZTE support. LG MTK support. Apple and CMCC as well

- TMO can accept the majority view.

* Will capture the text on the 3GPP website.

# 3 Incoming liaisons

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

[R2-2210786](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210786.zip) LS on the application of SCHC protocol on NB IOT (contact: Cisco)               IETF LPWAN WG

Treat online

DISCUSSION

- Ericsson presented and think we can simply Note this. Huawei agrees.

- Chair: No need to reply, but if a need is found for a RAN2 reply, we can if needed revisit W2.

* Noted

# 4 EUTRA Rel-16 and earlier

Tdoc Limitation: 0 tdocs

Not treated

# 5 NR Rel-15 and Rel-16

Tdoc Limitation: 0 tdocs

Not treated

[R2-2209319](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209319.zip) Reply LS on eMIMO features defined in different granularity with prerequisite (R1-2208250; contact: Huawei) RAN1 LS in Rel-16 NR\_eMIMO-Core To:RAN2

[R2-2209320](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209320.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

[R2-2209335](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209335.zip) LS on Pemax,c of S-SSB transmission when multiple resource pool is configured in a carrier (R4-2214421; contact: vivo) RAN4 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

# 6 NR Rel-17

## 6.0 General

These AIs includes Aspects that does not fit under other morre specific AIs, multi-WI aspects,

Tdoc limitation: 2 tdoc (in addition to rapporteur input)

### 6.0.1 RRC

Including general or multi-WI aspects, if any

* [AT119bis-e][003][NR17] RRC corrections (Huawei)

Scope: Treat R2-2209466, R2-2210238, R2-22-9925, R2-2209926. Determine agreeable parts. For Agreeable parts progress CRs

Intended outcome: Report, Agreed-in-principle CRs.

Deadline: Schedule 1

TEI + other

[R2-2209466](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209466.zip) Correction to explicit Indication of SI Scheduling window position [SI-SCHEDULING] Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3486 - F TEI17, NR\_pos-Core

Moved from 6.21.2

[R2-2210997](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210997.zip) Correction to explicit Indication of SI Scheduling window position [SI-SCHEDULING] Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3486 1 F TEI17, NR\_pos-Core

* [003] In-principle agreed

[R2-2210238](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210238.zip) Correction to T331 handling Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3529 - F TEI17, LTE\_NR\_DC\_CA\_enh-Core

Moved from 6.21.2

* [003] postponed

SDT + NTN

[R2-2209925](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209925.zip) Issues on Small Data Transmission under TN & NTN Mobility FGI discussion

* [003] noted
* [003] On whether to support RNA configuration across TN and NTN cells, there is no consensus and companies are encouraged to bring this discussion to next RAN2 (also possibly RAN3) meetings to reach a consensus

[R2-2209926](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209926.zip) Corrections for Small Data Transmission under TN & NTN Mobility FGI CR Rel-17 38.331 17.2.0 3518 - F NR\_SmallData\_INACTIVE-Core

* [003] Not pursued

ASN.1 General

[R2-2210639](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2210639.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210639.zip) Setup Modify Release structure for Rel-18 IEs Ericsson discussion

Chair: Has been discussed in the past. Assume that we can simply confirm the proposal as it is aligned with previous discussions. No need to re-discuss in general or for every release.

* [000] Noted, and it is confirmed that RAN2 can consider adding the possibility to “release and add” larger IEs as required on case by case basis.

### 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 WI-specific AIs.

Intra-band EN-DC (RP-222513)

Task by TSG RAN, Release TBD, in principle from R15.

Online: Can RAN2 conclude the following or similar: Case 3 and case 4 validity is up to RAN4, and if RAN4 concludes they are valid, RAN2 can find a signalling solution.

Chair:Discussion on specific signalling solutions is postponed to next meeting.

DISCUSSION on Intra-Band EN-DC

- Samsung support the organization proposal, but see no valid scenario.

- VDF wonder about the release for signalling solution? Chair think this may be determined when solutions are discussed. VDF wonder if this can be supported today or not. Chair think not. This seems clear based on TSG RAN discussion.

- vivo think we can leave the release to R4.

- QC think BW compatibility is important and we can clarify this is not supported today. Think also that the cases are a mix of current cases and new cases.

* RAN2 concludes that the discussed cases are not currently supported by signalling and new signalling is needed.
* Case validity is up to RAN4, and if RAN4 concludes they are valid, RAN2 can then attempt to find a signalling solution. RAN4 can also develop a preference as to what release should be applicable.

Not treated

[R2-2210538](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210538.zip) Discussion on intra-band EN-DC combination Huawei, HiSilicon discussion Rel-17 TEI17

[R2-2210765](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210765.zip) Discussion on intra-band EN-DC combinations Google Inc., Comcast, CableLabs discussion

Moved from AI 3

LS out

Online (if time allows)

[R2-2210638](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210638.zip) Further guidelines on UE capability definitions Ericsson discussion

DISCUSSION

- Huawei are not sure about the timing to send an LS. Think also that the proposals need to be worked on, e.g. for new UE types there could be mandatory features, and think details need to be elaborated regarding feature groups.

- Apple agree with Huawei and think R1 and R4 are aware. Can revisit for R18. VDF agrees as well.

- Lenovo support the proposals. It is good to capture our findings after two releases. Think R2 handbook is maybe not the right place. Maybe better as info annex in 38306 or similar.

- intel are also supportive of the proposals, but no rush for Rel-18 right now.

- Chair: will not send an LS now (nor next meeting), possibly later for Rel-18.

- Ericsson think we can do this a bit close to the feature list work for Rel-18. Nokia think May or Aug 2023 would be good.

* Noted, There is support to revisit and update UE caps guidelines for Rel-18, closer to the start of the feature list work, e.g. May – Aug 2023
* [AT119bis-e][004][NR17] UE caps Main (Intel)

Scope: Treat R2-2210660, R2-2210661, R2-2210565, R2-2210585 (if / when updated R1 feature list is available). Take into account updates to R1 and R4 feature lists, if they become available during the meeting. Determine agreeable parts, for agreeable parts capture in CRs,

Intended outcome: Report, Agreed-in-principle CRs (rapporteur can choose if to merge into mega CRs at current or next meeting).

Deadline: Schedule 1, or modifications by Rapporteur

PowerClass

offline

[R2-2210660](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210660.zip) Clairificaiton on the ue-PowerClassPerBandPerBC-r17 ZTE Corporation, Sanechips discussion Rel-17 NR\_RF\_FR1\_enh

* [004] Noted

[R2-2210661](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210661.zip) CR on the ue-PowerClassPerBandPerBC-r17 ZTE Corporation, Sanechips CR Rel-17 38.306 17.2.0 0820 - F NR\_RF\_FR1\_enh

* [004] Postponed
* [004] Send a LS to RAN4 to check the following for R4 16-8:

- Whether R4 16-8 is applicable to only inter-band CA?

- What is the interaction between R4 16-8 with the existing power class capabilities (i.e. ue-PowerClass(-v1610/1700), powerClassNRPart-r16 <if R4 16-8 is also applicable to other than inter-band CA> and powerClass(powerClass-v1610))

NTN + Redcap

offline

[R2-2210565](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210565.zip) Corrections to NTN capabilities LG Electronics CR Rel-17 38.306 17.2.0 0817 - F NR\_NTN\_solutions-Core, NR\_redcap-Core

* [004] not pursued

MBS R1 features

Wait for updated RAN1 feature list.

[R2-2210585](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2210585.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210585.zip) Clarification on the MBS feature 33-1-2 and 33-3-2 Xiaomi draftCR Rel-17 38.306 17.2.0 F NR\_MBS-Core

* [004] revised

Withdrawn

R2-2209492 Discussion on intra-ENDC band relevant UE capability OPPO discussion Rel-17 Withdrawn

### 6.0.3 Void.

### 6.0.4 Other

Rel-17 impacts to Cell Reselection Frequency Prioritization

Offline

* [AT119bis-e][005][NR17] Cell Reselection Frequency Prioritization (Kyocera)

Scope: Treat R2-2210459, R2-2210126, R2-2209415, R2-2209548. Determine agreeable parts, for agreeable parts capture in CR,

Intended outcome: Report, Agreed-in-principle CR.

Deadline: Schedule 1

CLOSED

[R2-2211025](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2211025.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2211025.zip) Report of [AT119bis-e][005][NR17] Cell Reselection Frequency Prioritization (Kyocera) Kyocera

* noted

DISCUSSION (online)

- vivo agree with intentions, think terminology is non-accurate.

- LG support P1-P4 but not sure about P5. For HSDN and Slice reselection Shall are used, but for MBS and V2X may is used ..

- TMO wonder about P3 whether this shall be configurable. V2X is likely to be a slice. Nokia agrees with TMO, and think in the discussion that V2X, MBS, HSDN may have priority over slice priority, and think that if UE applies slice based priority then nothing else is considered.

- QC: MBS and V2X freq shall be prioritized related to user pref on a phone, better to leave to UE impl.

- MTK agrees with TMO and think P3 is not needed, can further check is CR is needed or not.

- Apple think we can leave to UE impl except for HSDN that should be prioritized.

- TMO: would expect that the UE follow slice priorities. Chair wonder if not the UE would be handed over / redirected to the right cell if needed. TMO think yes, but with higher failure rate.

- CMCC are ok with the proposals. For V2X UEs a good network impl would be slice based, so these should not be in conflict, and if the conflict occurs, this can be resolved by UE impl.

- Chair think it seems like P1, P4 are agreeable. FFS P3 and also FFS whether there is TS impacts. Nokia would like to have same handling for MBS broadcast and V2X vs slicing.

- QC point out that Users interest in MBS and V2X is quite dynamic .. can the network really handle this? Chair: there is a lot of support for this view. Samsung agrees. Ericsson also agrees.

- TMO think that slice based prioritization shall replace all old V2X prioritization ..

- Ericsson think slicing shall not be a prerequisite for V2X or MBS.

- Chair: on TS impact, chair reminds that Notes are placed below paragraphs for which they are applicable, or at the end of a subclause, if they apply to the whole subclause, so e.g. it is not clear that current Note 0c should be considered applicable to MBS additions below it.

P1, P3, P4 are agreed:

* P1: For the cell reselection frequency prioritization, the MBS frequency may be considered as the highest priority even if the slice specific frequency priority is configured (i.e., it is up to UE implementation).
* P3’: For the cell reselection frequency prioritization, the frequency providing V2X/NR sidelink may be considered as the highest priority even if the slice specific frequency priority is configured (i.e., it is up to UE implementation).
* P4: For the cell reselection frequency prioritization, the HSDN cell shall be always considered as the highest priority, i.e., higher than the slice specific cell reselection priority even if configured and higher than MBS/V2X sidelink/NR sidelink frequency priority even if considered as the highest priority. It’s only applicable when the HSDN-capable UE is in High-mobility state, as it is today.

Chair: Postpone finalization (checking of TS impact) to next meeting. If issues are found with the agreements, we can come back.

[R2-2210459](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210459.zip) Coexistence between the highest priority and slice specific cell reselection priority Kyocera Corporation discussion

Moved from 6.1.3

[R2-2210126](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210126.zip) Reselection prioritization in release-17 Nokia, Nokia Shanghai Bell CR Rel-17 38.304 17.2.0 0287 - F NR\_MBS-Core, NR\_slice-Core

Moved from 6.0.1

[R2-2209415](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209415.zip) Discussion on MBS Frequency Prioritization and Slice-specific Reselection vivo discussion Rel-17 NR\_MBS-Core

Moved from 6.1.3

[R2-2209548](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209548.zip) Corrections to TS 38.304 for MBS CATT, CBN CR Rel-17 38.304 17.2.0 0284 - F NR\_MBS-Core Late

Moved from 6.1.3 (only the part related to freq priority to be treated here)

* [005] 4 tdocs above are noted

BWP operation without restriction

This topic is postponed until new TSG RAN conclusions, or relevant RAN4 progress.

RAN2 LS out was for Rel-16. TSG RAN tasked RAN4 to analyze and report to meeting 98.

[R2-2209333](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2209333.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_119bis-eDocsR2-2209333.zip) LS on Feature Group 6-1a “bwp-WithoutRestriction” (R4-2214355; contact: Qualcomm) RAN4 LS in To:RAN, RAN1, RAN2

Chair: No action in 2022Q4. When / if topic is resumed, RAN2 can take into account relevant parts of this reply LS if any.

* [000] Noted

[R2-2209313](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209313.zip) LS on BWP operation without restriction (R1-2208168; contact: Qualcomm) RAN1 LS in Rel-17 NR\_newRAT-Core, TEI17 To:RAN, RAN2, RAN4

Chair: No action in 2022Q4. When / if topic is resumed, RAN2 can take into account relevant parts of this reply LS if any.

* [000] Noted

Withdrawn

R2-2209477 Discussion on EHC for DAPS CATT discussion Rel-17 Withdrawn

R2-2209829 Configuration EHC for DAPS CATT CR Rel-17 38.323 17.2.0 0101 - F NR\_IIOT\_URLLC\_enh-Core Withdrawn

R2-2209924 Configuration EHC for DAPS CATT CR Rel-17 38.331 17.2.0 3517 - F NR\_IIOT\_URLLC\_enh-Core Withdrawn

## 6.1 NR Multicast

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

Tdoc Limitation: 4 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.

### 6.1.1 Organizational and Stage-2

LS ins. CR Rapporteurs baseline correction CRs. For smaller corrections, text clarifications etc please contact CR Rapporteur before/instead of submitting a separate Tdoc.

Impact to stage-2 TS, and discussions on system level issues that need resolution, if any.

[R2-2209302](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209302.zip) Reply LS on AS-NAS layer interactions for MBS (C1-225249; contact: Huawei) CT1 LS in Rel-15 5MBS To:RAN2, SA2

[R2-2209352](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209352.zip) Response LS on further outstanding issues in TS 23.247 (S2-2207389; contact: Huawei) SA2 LS in Rel-17 5MBS, NR\_MBS-Core To:RAN3, RAN2 Late

[R2-2209353](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209353.zip) LS on AS-NAS layer interactions for MBS (S2-2207409; contact: Huawei) SA2 LS in Rel-17 5MBS, NR\_MBS-Core To:RAN2, CT1

[R2-2209360](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209360.zip) LS on response to LS on parameters preconfigured in the UE to receive MBS service (S2-2207888; contact: Huawei) SA2 LS in Rel-17 5MBS To:CT, CT1 Cc:CT4, SA4, RAN2, SA, CT6

[R2-2209653](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209653.zip) Rapporteur corrections on RRC Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3500 - F NR\_MBS-Core

[R2-2209866](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209866.zip) Corrections on MBS Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0564 - F NR\_MBS-Core

[R2-2210051](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210051.zip) Miscellaneous corrections for MBS 38.323 Xiaomi CR Rel-17 38.323 17.2.0 0102 - F NR\_MBS-Core

[R2-2210711](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210711.zip) When to monitor the MCCH on the MBS frequency Ericsson, Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

### 6.1.2 RRC corrections

[R2-2209399](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209399.zip) RRC Corrections on MBS vivo CR Rel-17 38.331 17.2.0 3484 - F NR\_MBS-Core

[R2-2209547](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209547.zip) Miscellaneous Corrections to TS 38.331 for MBS CATT, CBN CR Rel-17 38.331 17.2.0 3494 - F NR\_MBS-Core Late

[R2-2209654](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209654.zip) Discussion on LCH re-association for MRB Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2209748](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209748.zip) CR to TS 38.331 on MRB configuration ZTE, Sanechips CR Rel-17 38.331 17.2.0 3504 - F NR\_MBS-Core Withdrawn

[R2-2209908](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209908.zip) RRC corrections for MBS Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2210050](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210050.zip) Broadcast MRB retention upon T300 expiry Samsung CR Rel-17 38.331 17.2.0 3521 - F NR\_MBS-Core

[R2-2210130](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210130.zip) Various small corrections to 38.331 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3524 - F NR\_MBS-Core

[R2-2210576](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210576.zip) 38.331 CR Correction on the ASN.1 violation or encoding error handling for MCCH message Beijing Xiaomi Software Tech draftCR Rel-17 38.331 17.2.0 F NR\_MBS-Core

[R2-2210682](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210682.zip) CR to TS 38.331 on MRB configuration ZTE, Sanechips CR Rel-17 38.331 17.2.0 3560 - F NR\_MBS-Core

[R2-2210712](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210712.zip) MBS service area and MCCH acquisition Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2210713](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210713.zip) A closer look at the MBS broadcast neighbours Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2210717](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210717.zip) Correction to full configuration for MBS Google Inc. CR Rel-17 38.331 17.2.0 3562 - F NR\_MBS-Core

### 6.1.3 Other CP corrections

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

[R2-2209548](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209548.zip) Corrections to TS 38.304 for MBS CATT, CBN CR Rel-17 38.304 17.2.0 0284 - F NR\_MBS-Core Late

[R2-2209655](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209655.zip) Correction on UE capability for MBS Huawei, CBN, HiSilicon CR Rel-17 38.306 17.2.0 0809 - F NR\_MBS-Core

[R2-2209909](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209909.zip) Remaining MBS UE capability open issues Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2210029](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210029.zip) Correction on MBS capabilities MediaTek inc. discussion Rel-17 NR\_MBS-Core

[R2-2210069](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210069.zip) Correction to PEI monitoring for group notification Samsung CR Rel-17 38.304 17.2.0 0285 - F NR\_MBS-Core

[R2-2210131](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210131.zip) Various small corrections to 38.304 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3525 - F NR\_MBS-Core

[R2-2210549](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210549.zip) CR to TS 38.304 on NR MBS ZTE, Sanechips CR Rel-17 38.304 17.2.0 0290 - F NR\_MBS-Core Withdrawn

[R2-2210683](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210683.zip) CR to TS 38.304 on NR MBS ZTE, Sanechips CR Rel-17 38.304 17.2.0 0294 - F NR\_MBS-Core

[R2-2210714](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210714.zip) DCI indicated repetitions for MBS broadcast Ericsson discussion Rel-17 NR\_MBS-Core

### 6.1.4 UP corrections

Including corrections to MAC, PDCP, RLC and SDAP.

[R2-2209416](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209416.zip) UP Corrections on MBS vivo discussion Rel-17 NR\_MBS-Core

[R2-2209417](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209417.zip) Handling of PDCP State Variables vivo discussion Rel-17 NR\_MBS-Core

[R2-2209438](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209438.zip) Considerations on HARQ buffer flushing and CSI masking Samsung discussion Rel-17 38.321

[R2-2209549](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209549.zip) Corrections to TS 38.321 for MBS CATT CR Rel-17 38.321 17.2.0 1413 - F NR\_MBS-Core Late

[R2-2209550](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209550.zip) Discussion on RX\_DELIV for AM MRB CATT discussion Rel-17 NR\_MBS-Core Late

[R2-2209551](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209551.zip) Remaining PDCP issues for MBS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2209656](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209656.zip) Clarifications on DRX and HARQ buffer handling Huawei, CBN, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2209657](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209657.zip) Discussion on PDCP window handling during PDCP suspend and AM PDCP re-establishment Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2209746](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209746.zip) PDCP initialisation for multicast MRB ZTE, Sanechips discussion Rel-17 NR\_MBS-Core

[R2-2209747](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209747.zip) CR to TS 38.323 on PDCP initialisation ZTE, Sanechips CR Rel-17 38.323 17.2.0 0100 - F NR\_MBS-Core Withdrawn

[R2-2209875](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209875.zip) PDCP initialization for multicast MRB MediaTek inc. discussion Rel-17 NR\_MBS-Core

[R2-2209910](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209910.zip) UP corrections for MBS Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2209948](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209948.zip) Correction on HARQ buffer flushing of MBS broadcast Lenovo discussion Rel-17

[R2-2209949](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209949.zip) Discussion on PDCP initial values handling Lenovo discussion Rel-17

[R2-2210052](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210052.zip) Clarification on the PDCP state variables Xiaomi discussion Rel-17 NR\_MBS-Core

[R2-2210519](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210519.zip) Removal of concept of UM MRB and AM MRB LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

[R2-2210575](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210575.zip) 38.321 CR Correction on the HARQ buffer flush for the MBS broadcast Beijing Xiaomi Software Tech draftCR Rel-17 38.321 17.2.0 F NR\_MBS-Core

[R2-2210592](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210592.zip) Clarification on reception of DRX Command MAC CE LG Electronics Inc. CR Rel-17 38.321 17.2.0 1437 - F NR\_MBS-Core

[R2-2210594](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210594.zip) Discussion on flushing HARQ buffers for MBS broadcast LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

[R2-2210609](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210609.zip) PDCP Variable Handling for Multicast Samsung discussion Rel-17 NR\_MBS-Core

[R2-2210681](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210681.zip) CR to TS 38.323 on PDCP initialisation ZTE, Sanechips CR Rel-17 38.323 17.2.0 0103 - F NR\_MBS-Core

[R2-2210684](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210684.zip) Correction to DRX command reception Google Inc. CR Rel-17 38.321 17.2.0 1441 - F NR\_MBS-Core

## 6.2 MR DC CA further enhancements

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

Tdoc Limitation: 3 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.

### 6.2.1 Organizational and Stage-2 corrections

Including LSs and any rapporteur inputs.

Including Stage-2 corrections related to DCCA WI.

Including report of email discussion [Post119-e][224][DCCA] Stage-2 description of CHO with MR-DC (ZTE)

[R2-2210177](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210177.zip) Report of [Post119-e][224][DCCA] Stage-2 description of CHO with MR-DC (ZTE) ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2210524](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210524.zip) Corrections for CHO with MR-DC ZTE Corporation (Rapporteur), Sanechips; Ericsson; CATT CR Rel-17 37.340 17.2.0 0350 - F TEI17, LTE\_NR\_DC\_enh2-Core

[R2-2210721](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210721.zip) Corrections for further MR-DC enhancements Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3563 - F LTE\_NR\_DC\_enh2-Core

### 6.2.2 SCG deactivation and Temporary RS for SCell activation Corrections

Including essential corrections to deactivated SCG and temporary RS for SCell activation..

[R2-2210127](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210127.zip) BWP handling for deactivated SCG Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1425 - F LTE\_NR\_DC\_enh2-Core

[R2-2210455](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210455.zip) Correction on the BWP for PSCell in deactivation SCG and the timing requirement for SCG activation CATT CR Rel-17 38.321 17.2.0 1432 - F LTE\_NR\_DC\_enh2-Core

[R2-2210456](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210456.zip) Correction on ASN.1 for sCellState and scg-State CATT CR Rel-17 38.331 17.2.0 3546 - F LTE\_NR\_DC\_enh2-Core

[R2-2210469](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210469.zip) Remaining issues for BWP operation in deactivated SCG Sharp discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2210672](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210672.zip) Correction on BWP handling for deactivated SCG Ericsson CR Rel-17 38.321 17.2.0 1439 - F LTE\_NR\_DC\_enh2-Core

[R2-2210674](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210674.zip) Handling of BWP during SCG deactivation Ericsson discussion

### 6.2.3 Conditional PSCell change addition Corrections

Including essential corrections to of CPAC on network aspects (e.g. network communication via inter-node messages) handled by RAN2 and any aspects that require RAN3 interaction.

Including essential corrections to CPAC that relate to RRC signalling between network and UE and related UE capabilities.

Including essential corrections to CHO + MR-DC (done as part of TEI17).

[R2-2209478](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209478.zip) Correction on CHO with MR-DC in TS 37.340 vivo draftCR Rel-17 37.340 17.2.0 F LTE\_NR\_DC\_enh2-Core

[R2-2210178](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210178.zip) Clarification on conditionalReconfiguration ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3528 - F LTE\_NR\_DC\_enh2-Core

[R2-2210305](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210305.zip) Correction on evaluations during CPAC execution Ericsson CR Rel-17 37.340 17.2.0 0349 - F LTE\_NR\_DC\_enh2-Core

[R2-2210343](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210343.zip) On releasing conditional configurations when SCG is changed Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2210344](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210344.zip) Draft NR RRC CR on releasing conditional configurations when SCG is changed Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3537 - F LTE\_NR\_DC\_enh2-Core

[R2-2210457](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210457.zip) Discussion on measurement for conditional reconfiguration CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

=> Revised in [R2-2210775](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210775.zip)

[R2-2210775](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210775.zip) Discussion on measurement for conditional reconfiguration CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2210718](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210718.zip) UE measurement capability handling for conditional measurements without a corresponding conditional reconfiguration Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2210719](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210719.zip) UE measurement requirements for conditional events in TS 38.331 Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2210720](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210720.zip) UE measurement requirements for conditional events in TS 36.331 Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

## 6.3 Multi SIM

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

Tdoc Limitation: 0 tdocs

Not treated

[R2-2209348](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209348.zip) Reply LS on NAS busy indication in RRC\_INACTIVE (S2-2207029; contact: Samsung) SA2 LS in Rel-17 MUSIM To:RAN2 Cc:CT1

[R2-2209927](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2209927.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209927.zip) Conflict of UE Preferred RRC State Report FGI discussion

*Moved from 6.24, not treated*

[R2-2209928](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209928.zip) Corrections for the Conflict of UE Preferred RRC state Report FGI CR Rel-17 38.331 17.2.0 3519 - F MUSIM

*Moved from 6.24, not treated*

## 6.4 NR IAB enhancements

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

Tdoc Limitation: 0 tdocs

Not treated

## 6.5 NR IIoT URLLC

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

Tdoc Limitation: 0 tdocs

Not treated

## 6.6 Small Data enhancements

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

Tdoc Limitation: 0 tdocs

Not treated

[R2-2209312](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209312.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

[R2-2210676](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210676.zip) Correction to CG-SDT Google Inc. CR Rel-17 38.321 17.2.0 1440 - F NR\_SmallData\_INACTIVE-Core

## 6.7 NR Sidelink relay

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

Tdoc Limitation: 4 tdocs

### 6.7.1 Organizational

Incoming LSs, TS updates, rapporteur inputs. This AI is reserved for rapporteur and organizational inputs. For LSes that need action or have impact beyond taking into account by CR rapporteurs: One tdoc by contact company (one company) to address the LS and potential reply is considered Rapporteur Input and may be provided. Related documents and proposed responses from companies other than the contact company should be submitted to the corresponding technical agenda item.

[R2-2209306](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209306.zip) LS on setting RRC establishment cause value when relay UE has its own service (C1-225453; contact: vivo) CT1 LS in Rel-17 5G\_ProSe To:RAN2 Cc:SA2

[R2-2209812](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209812.zip) [Draft] LS reply on setting RRC establishment casue value when relay UE has its own service vivo LS out To:CT1 Cc:SA2

[R2-2209813](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209813.zip) Discussion on LS from R2-2209206(C1-225453) vivo discussion

[R2-2209814](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209814.zip) Correction to the L2 U2N Relay UE’s cause value setting behaviour vivo CR Rel-17 38.331 17.2.0 3509 - F NR\_SL\_relay-Core

[R2-2210011](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210011.zip) RLC correction for SL relay Samsung draftCR Rel-17 38.322 17.1.0 F NR\_SL\_relay-Core

[R2-2210012](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210012.zip) PDCP correction for SL relay Samsung draftCR Rel-17 38.323 17.2.0 F NR\_SL\_relay-Core

[R2-2210324](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210324.zip) Misc correction in 38.304 for SL relay Ericsson (Rapporteur) CR Rel-17 38.304 17.2.0 0288 - F NR\_SL\_relay-Core

[R2-2210493](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210493.zip) Misc RRC CR for SL relay Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3549 - F NR\_SL\_relay-Core

### 6.7.2 Essential corrections

No documents should be submitted to 6.7.2. Please submit to 6.7.2.x.

#### 6.7.2.1 Stage 2 corrections

Including impact to 38.300.

[R2-2209815](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209815.zip) Correction on Sidelink based U2N Relay vivo CR Rel-17 37.340 17.2.0 0348 - F NR\_SL\_relay-Core

[R2-2210110](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210110.zip) Corrections on SL relay ZTE, Sanechips CR Rel-17 38.300 17.2.0 0569 - F NR\_SL\_relay-Core

#### 6.7.2.2 Control plane corrections

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

[R2-2209377](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209377.zip) Correction for U2N Relay OPPO draftCR Rel-17 38.331 17.2.0 F NR\_SL\_relay-Core

[R2-2209378](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209378.zip) Discussion on left issues for CP OPPO discussion Rel-17 NR\_SL\_relay-Core

[R2-2209500](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209500.zip) Miscellaneous corrections for NR sidelink Relay in TS 38.304 OPPO draftCR Rel-17 38.304 17.2.0 NR\_SL\_relay-Core

[R2-2209545](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209545.zip) Correction on relay UE RRC connection establishment failure SHARP Corporation discussion NR\_SL\_relay-Core

[R2-2209775](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209775.zip) Discussion on remaining issues on CP procedure for SL Relay Apple discussion Rel-17 NR\_SL\_relay-Core

[R2-2209776](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209776.zip) Correction on PC5 Relay RLC Channel configuration for L2 Relay UE and L2 Remote UE Apple CR Rel-17 38.331 17.2.0 3506 - F NR\_SL\_relay-Core

[R2-2209816](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209816.zip) Discussion on NR SL communication transmission using exception pool during D2I path switch vivo discussion

[R2-2209817](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209817.zip) Corrections to MAC and RLC handling for L2 U2N Relay vivo CR Rel-17 38.331 17.2.0 3510 - F NR\_SL\_relay-Core

[R2-2209818](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209818.zip) Correction to SL-RLC1 vivo CR Rel-17 38.331 17.2.0 3511 - F NR\_SL\_relay-Core

[R2-2209847](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209847.zip) Clarification on SL DRX operation for U2N Remote UE ASUSTeK CR Rel-17 38.331 17.2.0 3512 - F NR\_SL\_relay-Core

[R2-2209848](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209848.zip) Correction on RRC connection re-establishment procedure ASUSTeK CR Rel-17 38.331 17.2.0 3513 - F NR\_SL\_relay-Core

[R2-2209860](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209860.zip) Alignment between remote UE paging DRX and relay UE Uu DRX Ericsson discussion Rel-17 NR\_SL\_relay-Core

[R2-2209861](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209861.zip) Corrections to 38321 on alignment between remote UE paging DRX and relay UE Uu DRX Ericsson CR Rel-17 38.321 17.2.0 1417 - F NR\_SL\_relay-Core

[R2-2209879](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209879.zip) Correction on handover notification forwarding Xiaomi draftCR Rel-17 38.331 17.2.0 F NR\_SL\_relay-Core

[R2-2209880](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209880.zip) Miscelleneous correction on 38.331 Xiaomi draftCR Rel-17 38.331 17.2.0 F NR\_SL\_relay-Core

[R2-2209885](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209885.zip) Correction on remote UE's resource allocation Xiaomi draftCR Rel-17 38.331 17.2.0 F NR\_SL\_relay-Core

[R2-2209892](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209892.zip) Calarification on emergency service support in Rel-17 U2N relay CATT CR Rel-17 38.331 17.2.0 3515 - F NR\_SL\_relay-Core

[R2-2209902](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209902.zip) Discussion on SL synchronization for SL relay ZTE, Sanechips discussion Rel-17 NR\_SL\_relay-Core

[R2-2209903](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209903.zip) Correction on control plane for L2 U2N relay ZTE, Sanechips draftCR Rel-17 38.331 17.2.0 F NR\_SL\_relay-Core

[R2-2210170](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210170.zip) Correction for receiving notification message during path switching Lenovo Information Technology CR Rel-17 38.331 17.2.0 3527 - F NR\_SL\_relay-Core

[R2-2210325](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210325.zip) Clarification on UAC procedure for U2N Relay UE Ericsson CR Rel-17 38.331 17.2.0 3535 - F NR\_SL\_relay-Core

[R2-2210326](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210326.zip) Clarification on setting the transaction identifier for sidelink Ericsson CR Rel-17 38.331 17.2.0 3536 - F NR\_SL\_relay-Core

[R2-2210378](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210378.zip) Correction on SRAP handling for NR sidelink relay Xiaomi CR Rel-17 38.331 17.2.0 3542 - F NR\_SL\_relay-Core

[R2-2210432](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210432.zip) Correction on derivation of serving Relay UE measurement results Sharp discussion

[R2-2210433](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210433.zip) Correction on full configuration for remote UE Sharp discussion

[R2-2210434](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210434.zip) Correction on RRC connection suspension of remote UE Sharp discussion

[R2-2210494](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210494.zip) Remaining CP correction for sidelink relay Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2210495](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210495.zip) Discussion on support of QoE in L2 U2N relay Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2210496](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210496.zip) RRC CR for clarification on no support of QoE for L2 U2N Remote UE Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3550 - F NR\_SL\_relay-Core

[R2-2210625](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210625.zip) U2N relay related clarifications Nokia, Nokia Shanghai Bell draftCR Rel-17 38.304 17.2.0 F NR\_SL\_relay-Core

#### 6.7.2.3 User plane corrections

Including SRAP aspects and QoS.

[R2-2209893](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209893.zip) Correction on SRAP for L2 U2N Relay CATT CR Rel-17 38.351 17.2.0 0010 - F NR\_SL\_relay\_enh-Core

[R2-2209904](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209904.zip) Correction on SRAP for L2 U2N relay ZTE, Sanechips draftCR Rel-17 38.351 17.2.0 F NR\_SL\_relay-Core

[R2-2210043](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210043.zip) Miscellaneous corrections to 38.351 Samsung R&D Institute UK CR Rel-17 38.351 17.2.0 0011 - F NR\_SL\_relay-Core

[R2-2210673](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210673.zip) DraftCR 38.351 Miscellaneous SRAP changes Nokia, Nokia Shanghai Bell draftCR Rel-17 38.351 17.2.0 NR\_SL\_relay-Core

[R2-2210770](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210770.zip) Summary of AI 6.7.2.3 OPPO discussion Rel-17 NR\_SL\_relay-Core

#### 6.7.2.4 Discovery and re- selection

Including 5G ProSe Direct Discovery for the non-relaying case. Re-using LTE discovery and re/selection as baseline.

[R2-2209501](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209501.zip) Miscellaneous corrections for NR sidelink Relay in TS 38.321 OPPO draftCR Rel-17 38.321 17.2.0 NR\_SL\_relay-Core

[R2-2209894](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209894.zip) Correction on relay (re-)selection for remote UE CATT CR Rel-17 38.331 17.2.0 3516 - F NR\_SL\_relay\_enh-Core

R2-2209971 Correction on Sidelink discovery transmission CATT CR Rel-17 38.331 17.2.0 3520 - F NR\_SL\_relay-Core Withdrawn

[R2-2210111](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210111.zip) Support of SL CG for discovery message Huawei, HiSilicon, Nokia, Kyocera discussion Rel-17 NR\_SL\_relay-Core

[R2-2210169](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210169.zip) Correction for relay selection for entering IDLE or INACTIVE Lenovo Information Technology CR Rel-17 38.331 17.2.0 3526 - F NR\_SL\_relay-Core

[R2-2210633](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210633.zip) Discussion on Resource Allocation for Sidelink Discovery CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2210777 Summary of AI 6.7.2.4 on discovery and reselection CATT discussion Rel-17 NR\_SL\_relay-Core

## 6.8 RAN slicing

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

Tdoc Limitation: 0 tdocs

Only LS input from other WGs will be treated in this meeting.

[R2-2209358](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209358.zip) LS Out on LS on slice list and priority information for cell reselection and Random Access (S2-2207698; contact: ZTE) SA2 LS in Rel-17 NR\_slice-Core, NRslice To:SA, CT, RAN, RAN2, RAN3, CT1

[R2-2210526](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210526.zip) Clarification on the slice information for cell reselection OPPO draftCR Rel-17 38.304 17.2.0 F NR\_slice-Core Withdrawn

[R2-2210527](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210527.zip) Clarification on the slice information for random access OPPO draftCR Rel-17 38.331 17.2.0 F NR\_slice-Core Withdrawn

[R2-2210749](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210749.zip) Discussion on SA2 LS on slice list and priority information for cell reselection and Random Access ZTE Corporation, Sanechips discussion Rel-17

[R2-2210750](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210750.zip) Correction on handling of the NSAG information in cell reselection ZTE Corporation, Sanechips CR Rel-17 38.304 17.2.0 0295 - F NR\_slice-Core

[R2-2210751](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210751.zip) [Draft] Reply LS on slice list and priority information for cell reselection and Random Access ZTE corporation, Sanechips LS out Rel-17 To:SA2 Cc:CT1

## 6.9 UE Power Saving

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

Tdoc Limitation: 0 tdocs

NOTE: Outcome of the following Email Discussion will be treated: [Post119-e][043][ePowSav] paging early indication with paging subgrouping during emergency call.

Email Discussion

Treat online

[R2-2210554](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210554.zip) Report of [Post119-e][043][ePowSav] paging early indication with paging subgrouping during emergency call MediaTek Inc. report Rel-17 NR\_UE\_pow\_sav\_enh-Core

DISCUSSION

- MTK indicate that the reason for changes is that CN assigned subgrouping is not used during emergency service according to CT1 TS.

- VDF wonder if the CN subgrouping is optional. MTK think yes. VDF wonder if there is any problem with using RAN subgrouping during emergency service. MTK think it can be used.

- HW think there is a mismatch between SA2 and RAN TS, and think we need a solution, can fix this for next meeting.

- Ericsson have problems following the discussion and think eDRX acc to P1 shall not be used during emergency call. Think that we can state that UE ID subgrouping can be used, but there is very little power saving in emergency calls, so we might as well not use it at all. Think that CN assigned subgrouping is not used during emergency call.

- vivo think P1 is ok.

- vivo think P2 Option 2 is the way to go, meaning that UE ID subgrouping can be applied.

- Futurewei FW think that queueing delay is prolonged by UEID subgrouping and prefer to just turn off all of subgrouping for emergency call. Ericsson agrees and think that latency was the reason why WUS is not used for emergency call in LTE. Nokia think that the latency isn’t increased that much. FW think latency typically be increased by 10, 30 or 50ms dep on configuration.

- VDF think UE ID based subgrouping I ok

- QC think O1 and O2 are ok,but think O2 can be phrased somewhat differently.

- Apple think the current statement is that PEI with CN subgrouping is not used but no time limit !

* R2 understands that the UE and network will not use CN assigned subgrouping for emergency call. This is captured in NAS TS already.
* R2 understands that in principle UE ID based subgrouping can be used for emergency call but adds latency.
* R2 understands that UE impl should be able to handle this without inconsistency, without TS change.

Chair: Companies can check until next meeting whether this works or not, or whether some clarification or some change (e.g. to avoid the latency) is needed

LS in

Chair: It seems the LS ins will require no change in R2, if time can check on-line whether they can be treated.

[R2-2209316](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209316.zip) LS on PDCCH skipping (R1-2208210; contact: MediaTek) RAN1 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2

[R2-2209338](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209338.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

## 6.10 NR Non-Terrestrial Networks (NTN)

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

Tdoc Limitation: 5 tdocs

### 6.10.1 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.

#### 6.10.1.1 LS in

For LSes that need action: one tdoc by contact company to address the LS and potential reply is considered.

Rapporteur input may be provided.

[R2-2209337](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209337.zip) LS to RAN2 on Network indication for applying enhanced cell reselection requirements (R4-2214472; contact: Huawei) RAN4 LS in Rel-17 NR\_NTN\_solutions-Core To:RAN2

[R2-2209354](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209354.zip) Reply LS on the deactivation of access stratum due to discontinuous coverage (S2-2207420; contact: Qualcomm) SA2 LS in Rel-17 IoT\_SAT\_ARCH\_EPS To:CT1, RAN2 Cc:SA1

[R2-2210408](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210408.zip) Discussion on enhanced cell reselection requirements for NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2210409](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210409.zip) CR on enhanced cell reselection requirements for NTN Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3544 - F NR\_NTN\_solutions-Core

#### 6.10.1.2 Rapporteur inputs

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

### 6.10.2 Stage 2 corrections

[R2-2209539](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209539.zip) Correction on neighbour cells’ satellite ephemeris information (38.300) MediaTek Inc. CR Rel-17 38.300 17.2.0 0562 - F NR\_NTN\_solutions-Core

[R2-2209658](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209658.zip) Correction on user consent for UE coarse location request Huawei, HiSilicon CR Rel-17 38.300 17.2.0 0563 - F NR\_NTN\_solutions-Core

[R2-2210086](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210086.zip) NTN stage-2 correction OPPO CR Rel-17 38.300 17.2.0 0565 - F NR\_NTN\_solutions-Core

R2-2210462 Corrections to TS 38.300 for Rel-17 NR NTN Samsung Research America draftCR Rel-17 38.300 17.2.0 F NR\_NTN\_solutions-Core Withdrawn

[R2-2210567](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210567.zip) Corrections to TS 38.300 for Rel-17 NR NTN Samsung Research America CR Rel-17 38.300 17.2.0 0568 - F NR\_NTN\_solutions-Core

[R2-2210634](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210634.zip) Corrections to the UE-Based SMTC Adjustment in NTN Google Inc. CR Rel-17 38.300 17.2.0 0570 - F NR\_NTN\_solutions-Core

[R2-2210742](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210742.zip) Corrections on CHO evaluation for NTN CATT CR Rel-17 38.300 17.2.0 0571 - F NR\_NTN\_solutions-Core Late

[R2-2210759](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210759.zip) R17 NR NTN Stage 2 corrections Ericsson discussion Rel-17 NR\_NTN\_solutions

### 6.10.3 UP corrections

[R2-2209503](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209503.zip) On corrections on random access procedure in NR NTN vivo discussion

[R2-2209849](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209849.zip) Discussion on reported value for event-triggered TA report ASUSTeK discussion Rel-17 38.321 NR\_NTN\_solutions-Core

[R2-2210087](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210087.zip) Correction to TA report triggered SR and DRX OPPO CR Rel-17 38.321 17.2.0 1423 - F NR\_NTN\_solutions-Core

R2-2210463 Corrections to TS 38.321 for Rel-17 NR NTN Samsung Research America draftCR Rel-17 38.321 17.2.0 F NR\_NTN\_solutions-Core Withdrawn

[R2-2210568](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210568.zip) Corrections to TS 38.321 for Rel-17 NR NTN Samsung Research America CR Rel-17 38.321 17.2.0 1436 - F NR\_NTN\_solutions-Core Withdrawn

[R2-2210641](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210641.zip) Correction on SR cancellation and Random Access procedure stop for NTN Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1438 - F NR\_NTN\_solutions-Core

[R2-2210708](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210708.zip) Correction on SR triggered by TAR ZTE Corporation, Sanechips CR Rel-17 38.321 17.2.0 1442 - F NR\_NTN\_solutions-Core Late

[R2-2210760](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210760.zip) R17 NR NTN epoch time and validity Ericsson discussion Rel-17 NR\_NTN\_solutions

[R2-2210768](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210768.zip) Corrections to TS 38.321 for Rel-17 NR NTN Samsung Research America draftCR Rel-17 38.321 17.2.0 F NR\_NTN\_solutions-Core

### 6.10.4 CP corrections

[R2-2210044](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210044.zip) On LS Network indication for applying enhanced cell reselection requirements Ericsson discussion Rel-17

#### 6.10.4.1 Idle/inactive mode corrections

[R2-2209504](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209504.zip) Correction on the list of "PLMNs not allowed to operate at the present UE location" in TS 38.304 vivo CR Rel-17 38.304 17.2.0 0283 - F NR\_NTN\_solutions-Core

[R2-2210034](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210034.zip) Discussion on not being able to acquire SIB 19 for NR NTN Xiaomi, CAICT discussion Rel-17

[R2-2210035](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210035.zip) Correction on the action upon not being able to acquire SIB19 for NR NTN Xiaomi, CAICT CR Rel-17 36.331 17.2.0 4875 - F NR\_NTN\_solutions-Core

[R2-2210347](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210347.zip) NR RRC CR: Introduction of enhanced and relaxed cell reselection for NTN Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3540 - F NR\_NTN\_solutions-Core

[R2-2210348](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210348.zip) NR IDLE-mode CR: Introduction of enhanced and relaxed cell reselection for NTN Nokia, Nokia Shanghai Bell CR Rel-17 38.304 17.2.0 0289 - F NR\_NTN\_solutions-Core

R2-2210464 Corrections to TS 38.304 for Rel-17 NR NTN Samsung Research America draftCR Rel-17 38.304 17.2.0 F NR\_NTN\_solutions-Core Withdrawn

[R2-2210569](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210569.zip) Corrections to TS 38.304 for Rel-17 NR NTN Samsung Research America CR Rel-17 38.304 17.2.0 0291 - F NR\_NTN\_solutions-Core

[R2-2210584](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210584.zip) Correction on cell status for NTN Google Inc. CR Rel-17 38.304 17.2.0 0292 - F NR\_NTN\_solutions-Core

[R2-2210640](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210640.zip) Corrections to the Reselection Priorities Handling for NTN Google Inc. CR Rel-17 38.304 17.2.0 0293 - F NR\_NTN\_solutions-Core

#### 6.10.4.2 RRC corrections

[R2-2209505](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209505.zip) Correction on UE behavior on SMTC in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3488 - F NR\_NTN\_solutions-Core

[R2-2209506](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209506.zip) Correction on UE coarse location reporting in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3489 - F NR\_NTN\_solutions-Core

[R2-2209507](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209507.zip) Correction on UE behavior on T430 in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3490 - F NR\_NTN\_solutions-Core

[R2-2209526](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209526.zip) On neighbour cell SI Ericsson discussion Rel-17

[R2-2209527](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209527.zip) Correction for Release 17 NTN Ericsson CR Rel-17 38.331 17.2.0 3533 - F NR\_NTN\_enh-Core

[R2-2209528](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209528.zip) On timer T430 for Rel-17 NR NTN Ericsson discussion Rel-17

[R2-2209537](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209537.zip) Correction on the coincidence of ECI and ECEF MediaTek Inc. CR Rel-17 38.331 17.2.0 3491 - F NR\_NTN\_solutions-Core

[R2-2209538](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209538.zip) Correction on neighbour cells’ satellite ephemeris information (38.331) MediaTek Inc. CR Rel-17 38.331 17.2.0 3492 - F NR\_NTN\_solutions-Core

[R2-2209540](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209540.zip) IOT bit for inter satellite measurement (38.331) MediaTek Inc. CR Rel-17 38.331 17.2.0 3493 - F NR\_NTN\_solutions-Core

[R2-2209799](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209799.zip) Clarification on validity of the UL sync info Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2209800](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209800.zip) Clarification on the concurrent measurement gap configuration Apple CR Rel-17 38.331 17.2.0 3508 - F NR\_NTN\_solutions-Core

R2-2209803 Clarification on the necessity of SIB19 in NTN cell Apple discussion Rel-17 38.331 NR\_NTN\_solutions-Core Withdrawn

[R2-2209850](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209850.zip) Discussion on configuration of satellite information for handover ASUSTeK discussion Rel-17 38.331 NR\_NTN\_solutions-Core

[R2-2209851](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209851.zip) Discussion on T430 handling upon going to RRC\_IDLE ASUSTeK discussion Rel-17 38.331 NR\_NTN\_solutions-Core

[R2-2209852](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209852.zip) Clarification on validity timer for serving cell ASUSTeK discussion Rel-17 38.331 NR\_NTN\_solutions-Core

[R2-2209981](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209981.zip) Discussion on the ephemeris information in CHO procedure Spreadtrum Communications discussion Rel-17

[R2-2210091](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210091.zip) RRC correction on valid timer and SIB19 acquisition OPPO CR Rel-17 38.331 17.2.0 3523 - F NR\_NTN\_solutions-Core

[R2-2210092](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210092.zip) Discussion on validity issue of satellite assistance information OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2210093](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210093.zip) DRAFT LS on the support of backward propagation in NTN OPPO LS out Rel-17 NR\_NTN\_solutions-Core To:RAN1

[R2-2210197](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210197.zip) Draft 331 CR – Addition of missing descriptions of Event D1 and CondEvent T1 Interdigital, Inc. draftCR Rel-17 38.331 17.2.0 NR\_NTN\_solutions-Core

[R2-2210345](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210345.zip) NR RRC CR on epochTime and validity timer Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3538 - F NR\_NTN\_solutions-Core

[R2-2210346](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210346.zip) NR RRC CR on neighbour cell ephemeris signalling Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3539 - F NR\_NTN\_solutions-Core

[R2-2210410](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210410.zip) CR on validity duration Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3545 - F NR\_NTN\_solutions-Core

[R2-2210411](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210411.zip) Discussion on epoch time Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2210412](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210412.zip) Remaining issues on neighbour cell ephemeris Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

R2-2210465 Corrections to TS 38.331 for Rel-17 NR NTN Samsung Research America draftCR Rel-17 38.331 17.2.0 F NR\_NTN\_solutions-Core Withdrawn

[R2-2210466](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210466.zip) Discussion on Epoch Time Samsung Research America discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2210484](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210484.zip) Clarification on the necessity of SIB19 in NTN cell Apple CR Rel-17 38.331 17.2.0 3547 - F NR\_NTN\_solutions-Core

[R2-2210570](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210570.zip) Corrections to TS 38.331 for Rel-17 NR NTN Samsung Research America CR Rel-17 38.331 17.2.0 3554 - F NR\_NTN\_solutions-Core

[R2-2210646](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210646.zip) Corrections to the SMTC Field Description in System Information Google Inc. CR Rel-17 38.331 17.2.0 3555 - F NR\_NTN\_solutions-Core

[R2-2210663](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210663.zip) Further consideration on NTN neighbour cell list in SIB19 ZTE Corporation, Sanechips discussion Rel-17

[R2-2210664](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210664.zip) Clarification on the NTN neighbour cell list in SIB19 ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3559 - F NR\_NTN\_solutions-Core

[R2-2210729](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210729.zip) NTN Configuration at Handover and CHO Sequans Communications discussion Rel-17 38.331 NR\_NTN\_solutions-Core R2-2208659

[R2-2210740](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210740.zip) Corrections on validity of SIB19 CATT CR Rel-17 38.331 17.2.0 3565 - F NR\_NTN\_solutions-Core Late

[R2-2210741](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210741.zip) Corrections on related issues of epoch time CATT CR Rel-17 38.331 17.2.0 3566 - F NR\_NTN\_solutions-Core Late

[R2-2210743](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210743.zip) Discussion on leftover issues CATT discussion Rel-17 NR\_NTN\_solutions-Core Late

### 6.10.5 UE capabilities corrections

[R2-2209541](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209541.zip) IOT bit for inter satellite measurement (38.306) MediaTek Inc. CR Rel-17 38.306 17.2.0 0807 - F NR\_NTN\_solutions-Core

[R2-2209707](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209707.zip) Missing UE capability for eventD1 Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3501 - F NR\_NTN\_solutions-Core

[R2-2209708](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209708.zip) Missing UE capability for eventD1 Qualcomm Incorporated CR Rel-17 38.306 17.2.0 0810 - F NR\_NTN\_solutions-Core

[R2-2209801](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209801.zip) Capability of the UE coarse location report Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2209802](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209802.zip) Clarification on the support of DCCA in NTN network Apple discussion Rel-17 NR\_NTN\_solutions-Core

## 6.11 NR positioning enhancements

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

Tdoc Limitation: 5 tdocs

### 6.11.1 Organizational

Rapporteur input. Incoming LS etc. This AI is reserved for rapporteur and organizational inputs. For LSes that need action or have impact beyond taking into account by CR rapporteurs: One tdoc by contact company (one company) to address the LS and potential reply is considered Rapporteur Input and may be provided. Related documents and proposed responses from companies other than the contact company should be submitted to the corresponding technical agenda item.

[R2-2209331](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209331.zip) LS on SRS-PosRRC-InactiveConfig configuration signalling (R3-225268; contact: Intel) RAN3 LS in Rel-17 NR\_pos\_enh-Core To:RAN2

[R2-2209332](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209332.zip) LS on Tx TEG framework (R4-2210603; contact: CATT) RAN4 LS in Rel-17 NR\_pos\_enh-Core To:RAN1, RAN2, RAN3

[R2-2209342](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209342.zip) Reply LS on the UE/TRP TEG framework (R4-2214493; contact: CATT) RAN4 LS in Rel-17 NR\_pos\_enh-Core To:RAN1, RAN2, RAN3

[R2-2209432](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209432.zip) Discussion on the “Reply LS on the UE/TRP TEG framework” from RAN4 (R4-2214493) CATT discussion Rel-17 NR\_pos\_enh-Core

[R2-2209433](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209433.zip) [DRAFT] Reply LS on applicability of timing error margin of Rx TEG CATT LS out Rel-17 NR\_pos\_enh-Core To:RAN4 Cc:RAN1, RAN3

[R2-2209610](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209610.zip) UE RRC state transition during the positioning session for RAN3 LS ([R2-2209331](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209331.zip)) Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

[R2-2209611](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209611.zip) Draft Reply LS on SRS-PosRRC-InactiveConfig configuration signalling Intel Corporation LS out Rel-17 NR\_pos\_enh-Core To:RAN3

[R2-2210312](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210312.zip) Miscellaneous correction for Positioning Ericsson CR Rel-17 38.331 17.2.0 3534 - F NR\_pos\_enh-Core

### 6.11.2 Essential corrections

No documents should be submitted to 6.11.2. Please submit to 6.11.2.x.

#### 6.11.2.1 Stage 2 corrections

Including impact to 36.305 and 38.305. Stage 2 corrections without functional impact will be treated at lower priority or not at all.

[R2-2210119](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210119.zip) Discussion on the LS on SRS-PosRRC-InactiveConfig configuration signalling Xiaomi discussion

[R2-2210313](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210313.zip) Missing Functional Impacts for UE TxTEG association Ericsson CR Rel-17 38.305 17.2.0 0108 - F NR\_pos\_enh-Core

[R2-2210314](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210314.zip) Missing Functional Impacts for RRC Inactive Positioning Ericsson CR Rel-17 38.305 17.2.0 0109 - F NR\_pos\_enh-Core

[R2-2210315](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210315.zip) Addition of Signaling of SRS Port Index when SRS resource for MIMO is used Ericsson CR Rel-17 38.305 17.2.0 0110 - F NR\_pos\_enh-Core

[R2-2210605](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210605.zip) Miscellaneous corrections to TS 38.305 vivo draftCR Rel-17 38.305 17.2.0 D NR\_pos\_enh-Core

#### 6.11.2.2 RRC corrections

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

[R2-2209429](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209429.zip) Correction to RRC spec for RRC\_INACTIVE positioning Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3485 - F NR\_pos\_enh-Core

[R2-2209437](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209437.zip) Discussion on LS on SRS-PosRRC-InactiveConfig configuration signalling CATT discussion Rel-17 NR\_pos\_enh-Core

[R2-2210480](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210480.zip) Cancellation of UL MAC CE for MG activation/deactivation Samsung draftCR Rel-17 38.331 17.2.0 NR\_pos\_enh-Core

#### 6.11.2.3 LPP corrections

Corrections to 37.355.

[R2-2209430](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209430.zip) Correction to UE capability for DL-AoD Huawei, HiSilicon CR Rel-17 37.355 17.2.0 0379 - F NR\_pos\_enh-Core

[R2-2209431](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209431.zip) Correction to TEG margin reporting Huawei, HiSilicon CR Rel-17 37.355 17.2.0 0380 - F NR\_pos\_enh-Core

[R2-2209434](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209434.zip) Corrections on the timing error margins CATT discussion Rel-17 37.355 NR\_pos\_enh-Core Late

[R2-2209435](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209435.zip) Change Request of missing UE capabilities CATT discussion Rel-17 37.355 NR\_pos\_enh-Core Late

[R2-2209436](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209436.zip) Corrections on the LPP capabilities CATT discussion Rel-17 37.355 NR\_pos\_enh-Core Late

[R2-2209683](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209683.zip) NR-DL-AoD-SignalMeasurementInformation corrections Nokia, Nokia Shanghai Bell CR Rel-17 37.355 17.2.0 0381 - F NR\_pos\_enh-Core

[R2-2210199](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210199.zip) Correction on the maximum number of SRS and TxTEG association ZTE, Sanechips CR Rel-17 37.355 17.2.0 0382 - F NR\_pos\_enh-Core

[R2-2210606](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210606.zip) Discussion on the provision of AL for achievable TIR calculation vivo discussion Rel-17 NR\_pos\_enh-Core

#### 6.11.2.4 MAC corrections

Corrections to 38.321.

[R2-2209427](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209427.zip) Correction to MAC spec for Positioning enhancement Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1408 - F NR\_pos\_enh-Core

[R2-2210311](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210311.zip) Positioning Measurement Gap Activation/Deactivation Request MAC CE based upon Scheduling Request Configuration Ericsson CR Rel-17 38.321 17.2.0 1429 - F NR\_pos\_enh-Core

[R2-2210607](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210607.zip) Clarification on the PPW index vivo draftCR Rel-17 38.321 17.2.0 D NR\_pos\_enh-Core

#### 6.11.2.5 UE capabilities

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

[R2-2209428](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209428.zip) Correction on PRS processing window capability Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0806 - F NR\_pos\_enh-Core

[R2-2210310](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210310.zip) Correcting PRS capability information reported to gNB Ericsson CR Rel-17 38.306 17.2.0 0815 - F NR\_pos\_enh-Core

## 6.12 Reduced Capability

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

Tdoc Limitation: 0 tdocs

Not treated

[R2-2209340](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209340.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

[R2-2209341](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209341.zip) Reply LS on RRM relaxation for Redcap (R4-2214487; contact: vivo) RAN4 LS in Rel-17 NR\_redcap-Core To:RAN2

## 6.13 SON MDT

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

Tdoc Limitation: 0 tdocs

Not treated

[R2-2209321](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209321.zip) LS on M6 Delay Threshold (R3-224079; contact: CATT) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:SA5 Cc:RAN2

[R2-2209327](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209327.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

[R2-2209363](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209363.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

[R2-2209366](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209366.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

## 6.14 NR QoE

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

Tdoc Limitation: 0 tdocs

Not treated

[R2-2209361](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209361.zip) Reply LS to SA5 on TS 28.404/TS 28.405 Clarification (S4-221121; contact: Qualcomm) SA4 LS in Rel-17 eQoE To:SA4 Cc:RAN2, RAN3

[R2-2209362](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209362.zip) Reply LS on questions on RAN visible QoE (S4-221129; contact: Huawei) SA4 LS in Rel-17 NR\_QoE-Core To:RAN2, RAN3

## 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.

### 6.15.1 Organizational

Including incoming LSs, rapporteur inputs, etc.

[R2-2209310](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209310.zip) Reply LS to RAN2 on RRC parameters for IUC Scheme 1 and default CBR configuration (R1-2208090; contact: Huawei) RAN1 LS in Rel-17 NR\_SL\_enh-Core To:RAN2

[R2-2209311](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209311.zip) Reply LS on power-saving resource allocation with absent sl-AllowedResourceSelectionConfig (R1-2208097; contact: vivo) RAN1 LS in Rel-17 NR\_SL\_enh-Core To:RAN2

[R2-2209349](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209349.zip) Reply LS to RAN2 on Tx profile (S2-2207033; contact: vivo) SA2 LS in Rel-17 eV2XARC\_Ph2, 5G\_ProSe, NR\_SL\_enh-Core To:RAN2 Cc:CT1

[R2-2209462](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209462.zip) Discussion on the LS in R1-2208121 on open-loop power control (OLPC) parameters for NR sidelink vivo discussion Rel-17 NR\_SL\_enh-Core

[R2-2209463](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209463.zip) Discussion on the LS in [R2-2209311](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209311.zip) for default resource selection scheme vivo discussion

[R2-2209677](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209677.zip) Correction on Tx profile operation ZTE Corporation, Sanechips draftCR Rel-17 38.300 17.2.0 F NR\_SL\_enh-Core

[R2-2210543](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210543.zip) Miscellaneous corrections to SL DRX vivo CR Rel-17 38.300 17.2.0 0567 - F NR\_SL\_enh-Core

[R2-2210544](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210544.zip) Discussion and TP on LS of TX profile vivo discussion Rel-17

### 6.15.2 Control plane corrections

[R2-2209379](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209379.zip) Correction for SL DRX OPPO draftCR Rel-17 38.331 17.2.0 F NR\_SL\_enh-Core

[R2-2209380](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209380.zip) Discussion on left issues on control plane procedure OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2209674](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209674.zip) correction on RRC spec for SUI initiation and IUC parameter ZTE Corporation, Sanechips draftCR Rel-17 38.331 17.2.0 F NR\_SL\_enh-Core

R2-2209676 correction on SUI message ZTE Corporation, Sanechips draftCR Rel-17 38.331 17.2.0 F NR\_SL\_enh-Core Withdrawn

[R2-2209739](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209739.zip) Miscellaneous corrections on TS 38.331 for SL DRX CATT CR Rel-17 38.331 17.2.0 3502 - F NR\_SL\_enh-Core

[R2-2209740](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209740.zip) Miscellaneous corrections on TS 38.331 for SL enhancement CATT CR Rel-17 38.331 17.2.0 3503 - F NR\_SL\_enh-Core

[R2-2209772](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209772.zip) Correction on SL transmission by OOC UE for SL communication and SL discovery Apple CR Rel-17 38.331 17.2.0 3505 - F NR\_SL\_enh-Core

[R2-2209857](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209857.zip) Discussion on RAN1 LS R1-2208090 Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2209858](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209858.zip) Corrections to 38331 on OLPC parameters Ericsson CR Rel-17 38.331 17.2.0 3514 - F NR\_SL\_enh-Core

[R2-2209878](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209878.zip) Correction on 38.331 Xiaomi draftCR Rel-17 38.331 17.2.0 F NR\_SL\_enh-Core

[R2-2210258](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210258.zip) Summary of [Post119-e][512][V2X/SL] Remaining Corrections (InterDigital) InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2210259](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210259.zip) Correction on LCID Assignment for SL LCH InterDigital, ASUSTek CR Rel-16 38.331 16.10.0 3531 - F 5G\_V2X\_NRSL-Core

[R2-2210260](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210260.zip) Correction on LCID Assignment for SL LCH InterDigital, ASUSTek CR Rel-17 38.331 17.2.0 3532 - A NR\_SL\_enh-Core

[R2-2210373](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210373.zip) Rapporteur CR on TS 38.331 for SL enhancements Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3541 - F NR\_SL\_enh-Core Late

[R2-2210542](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210542.zip) Miscellaneous corrections on 38.331 vivo CR Rel-17 38.331 17.2.0 3551 - F NR\_SL\_enh-Core

R2-2210550 Clarification of default CBR parameters Samsung Research America CR Rel-17 38.331 17.2.0 3552 - F NR\_SL\_enh-Core Withdrawn

[R2-2210555](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210555.zip) Clarification of default CBR parameters Samsung Research America CR Rel-17 38.331 17.2.0 3553 - F NR\_SL\_enh-Core

### 6.15.3 User plane corrections

[R2-2209387](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209387.zip) Discussion on left issues on user plane procedure OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2209388](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209388.zip) Miscellaneous corrections on TS 38.321 for SL enhancements OPPO draftCR Rel-17 38.321 17.2.0 F NR\_SL\_enh-Core

[R2-2209542](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209542.zip) Correction to resource (re-)selection for SL DRX SHARP Corporation CR Rel-17 38.321 17.2.0 1410 - F NR\_SL\_enh-Core

[R2-2209543](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209543.zip) Correction to resource (re-)selection for UE configured with neither SL DRX nor IUC SHARP Corporation CR Rel-17 38.321 17.2.0 1411 - F NR\_SL\_enh-Core

[R2-2209544](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209544.zip) Corrections to resource (re-)selection for Inter-UE coordination SHARP Corporation CR Rel-17 38.321 17.2.0 1412 - F NR\_SL\_enh-Core

[R2-2209675](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209675.zip) Correction on MAC Spec for IUC ZTE Corporation, Sanechips draftCR Rel-17 38.321 17.2.0 F NR\_SL\_enh-Core

[R2-2209684](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209684.zip) Clarification on quitting from active time Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core Late

[R2-2209741](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209741.zip) Miscellaneous corrections on TS 38.321 for NR sidelink CATT CR Rel-17 38.321 17.2.0 1415 - F NR\_SL\_enh-Core

[R2-2209853](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209853.zip) Corrections on SL enhancements ASUSTeK CR Rel-17 38.321 17.2.0 1416 - F NR\_SL\_enh-Core

[R2-2209859](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209859.zip) Capturing TX profile in the MAC spec Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2209874](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209874.zip) Corrections to BWP inactivity timer handling for SL Samsung Electronics CR Rel-17 38.321 17.2.0 1419 - F NR\_SL\_enh-Core

[R2-2209895](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209895.zip) Clarification on destination UE(s) for SL DRX Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1421 - F NR\_SL\_enh-Core Late

[R2-2210113](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210113.zip) Correction on resource re-selection in IUC scheme 2 NEC Corporation CR Rel-17 38.321 17.2.0 1424 - F NR\_SL\_enh-Core

[R2-2210188](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210188.zip) User plane corrections on NR Sidelink enhancements LG Electronics France CR Rel-17 38.321 17.2.0 1426 - F NR\_SL\_enh-Core Late

[R2-2210261](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210261.zip) Correction on SL DRX Offset Calculation InterDigital, ASUSTek CR Rel-17 38.321 17.2.0 1428 - F NR\_SL\_enh-Core

[R2-2210262](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210262.zip) UL/SL Prioritization for SL Relay InterDigital, Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2210309](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210309.zip) IUC for random resource allocation Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core

[R2-2210335](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210335.zip) Draft CR on IUC information transmission considerations Nokia, Nokia Shanghai Bell draftCR Rel-17 38.321 17.2.0 F NR\_SL\_enh-Core

[R2-2210374](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210374.zip) Handling the running SL DRX timers upon receiving the SL DRX reconfiguration Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core Late

[R2-2210376](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210376.zip) Miscellaneous corrections on TS 38.300 for NR sidelink Xiaomi CR Rel-17 38.300 17.2.0 0566 - F NR\_SL\_enh-Core

R2-2210377 Miscellaneous corrections on TS 38.320 for NR sidelink Xiaomi CR Rel-17 38.321 17.2.0 1430 - F NR\_SL\_enh-Core Withdrawn

[R2-2210382](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210382.zip) Miscellaneous corrections on TS 38.321 for NR sidelink Xiaomi CR Rel-17 38.321 17.2.0 1431 - F NR\_SL\_enh-Core

[R2-2210545](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210545.zip) Miscellaneous corrections on 38.321 vivo CR Rel-17 38.321 17.2.0 1433 - F NR\_SL\_enh-Core

R2-2210551 Clarification of slot(s) associated with the announced periodic transmission(s) Samsung Research America CR Rel-17 38.321 17.2.0 1434 - F NR\_SL\_enh-Core Withdrawn

[R2-2210558](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210558.zip) Clarification of slot(s) associated with the announced periodic transmission(s) Samsung Research America CR Rel-17 38.321 17.2.0 1435 - F NR\_SL\_enh-Core

[R2-2210608](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210608.zip) Correction to transmission of IUC information request Nokia, Nokia Shanghai Bell draftCR Rel-17 38.321 17.2.0 F 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: 0 tdocs

Not treated

## 6.17 NR feMIMO

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

Tdoc Limitation: 2 tdocs

### 6.17.1 Organizational

LS in, CR Rapporteurs to provide baseline correction CRs. For smaller corrections, text clarifications etc please contact CR Rapporteur

### 6.17.2 RRC centric Corrections

Treat summary and LSin’s online first, then continue offline

[R2-2210785](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210785.zip) [Pre119bis-e][002] Summary RRC MIMO Rel-17 Ericsson

DISCUSSION

- Ericsson think P2 P3 need review / to be scrutinized, to keep them correct.

P2

- ZTE think that just modifying the restriction is not good. OPPO think this has been discussed several times, think explicit indication is a clear way.

- Chair wonder if it is better to add new field and point out that clarity is better than overambitious overhead optimization. HW are ok with new field if BW compatible.

P3

- Huawei think what is proposed is not sufficient, PUSCH power control contains fields that are not supposed to be used, and there are need M fields, these need to be handled somehow, overall reusing this may be complex. Ericsson think that it is proposed to only use the fields that are applicable. Huawei think we should consider a separate new field, which may be simpler in the end. Vivo CATT, Nokia, SS support separate field.

- OPPO has concerns on backwards compatibility. Chair assumes that we introduce all new things in Backwards compatible ways on ASN.1 level. OPPO think adding a new field is NBC on functional level. Chair point out that functional backwards compatibility is only interesting for functionality that works in the first place, in this case it seems that it doesn’t.

P4

- HW think indeed ZTE has found a problem. Xiaomi agrees there is an issue. To which TCI state is the reference? Think we may need to ask R1. ZTE agrees and think indeed there is an issue. Think Option 1 is a safe way (with need for LS). OPPO wonder if there is a problem for UL. ZTE think this is optjon 2.

P6

- HW think we can leave this to R1. No need to reply. Nokia agrees and think R1 are discussing this, can see reply from R1 during the weekend.

* P1: the proposal is agreed
* For P3, we assume to add separate fields
* Include tdoc of P4 in the discussion (P4 not agreed)
* P6: We wait for R1 to reply (CB next week).

Chair: continue offline.

* [AT119bis-e][018][feMIMO] RRC related Corrections (Ericsson)

Scope: Based on R2-2210785, referenced tdocs, online agreements and online comments, progress unclear points to determine agreeable parts. Capture agreeable parts in a CR

Intended outcome: Report, In-principle-Agreed CR, PH2: Final approval LS out

Deadline: PH2: EOM

[R2-2211012](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2211012.zip) Report of [AT119bis-e][018][feMIMO] RRC related Corrections (Ericsson) Ericsson

* noted

R2-2211011 Corrections for Release-17 feMIMO Ericsson CR Rel-17 38.331 17.2.0 3569 - F NR\_FeMIMO-Core

- ON the pathloss ref, Nokia think that R1 just asked for 4 but the CR support 64, but the CR is acceptable, and we can clarify next meeting. HW think 64 is the number we had before and the draft CR doesn’t change anything to that. Intel think we can add our understanding in the LS to RAN1. Can ask to confirm. ZTE think we can just wait, 64 is the just the resource pool. LG think we can ask.

- Chair: CR contents is agreeable, but there were late smaller comments that should be taken into account.

* CR is revised, and the revision is in-princple-agreed unseen (rapporteur is trusted to take into account the late comments, expect that further discussion may be needed at next meeting).
* Include as info in the LS; the assumption from the CR on the pathloss reference no of instances (4 and 64).

R2-2211013 DRAFT LS on further further questions on feMIMO RRC parameters Ericsson LSout

- CATT think that Q2 is for a b e. Should really c and d be included?

- Intel think the question is relevant but would be ok to remove.

- Nokia think the question is the most important thing, and the details are less important.

* For Q2, remove sub-bullets c and d and add “for example”.
* With this change, current contents is agreeable.

Offline final approval, deadline EOM

[R2-2209317](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209317.zip) Reply LS on LS on further questions on feMIMO RRC parameters (R1-2208224; contact: Ericsson) RAN1 LS in Rel-17 NR\_FeMIMO-Core To:RAN2

* [002] Noted

[R2-2209345](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209345.zip) LS on active TCI state list for UL TCI (R4-2214972; contact: Nokia) RAN4 LS in Rel-17 NR\_FeMIMO-Core To:RAN1, RAN2

* [002] Noted

[R2-2210077](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210077.zip) Corrections for Release-17 feMIMO Ericsson CR Rel-17 38.331 17.2.0 3522 - F NR\_FeMIMO-Core

* [018] revised

[R2-2210124](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210124.zip) Discussion on configurations for Rel-17 unified TCI CATT discussion Rel-17 NR\_FeMIMO-Core Late

[R2-2209493](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209493.zip) Discussion on pathloss reference signal OPPO discussion Rel-17 NR\_FeMIMO-Core

=> Revised in R2-2210790

R2-2210790 Discussion on pathloss reference signal OPPO discussion Rel-17 NR\_FeMIMO-Core

[R2-2209494](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209494.zip) Reply LS on pathloss reference signal OPPO LS out Rel-17 NR\_FeMIMO-Core To:RAN4 Cc:RAN1

=> Revised in R2-2210791

R2-2210791 Reply LS on pathloss reference signal OPPO LS out Rel-17 NR\_FeMIMO-Core To:RAN4 Cc:RAN1

[R2-2209529](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209529.zip) On LS on active TCI state list for UL TCI Ericsson discussion Rel-17

[R2-2210236](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210236.zip) PL-RS handling for UL TCI states Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_FeMIMO-Core

[R2-2210725](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210725.zip) FeMIMO RRC corrections Huawei, HiSilicon discussion Rel-17 NR\_FeMIMO-Core

* [002][018] 6 tdocs noted

[R2-2210655](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210655.zip) CR on 38.331 for unified TCI state in SRS-Config ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3556 - F NR\_FeMIMO-Core

* [018] not pursued

### 6.17.3 MAC centric Corrections

Treat summary and LSin’s online first, then continue offline

[R2-2210796](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210796.zip) [Pre119bis-e][001] Summary MAC centric corrections Samsung

DISCUSSION

P1

- Ericsson think there additionally is a sentence that need to be removed. Samsung think capturing R1 agreement is simplest. Intel think that the sentence need to remain to cover other types of coreset 0.

P2

- HW think the TP is not 100% accurate, but cannot explain in detail what it should be - think this is complicated. Chair think we can look at details offline if needed.

P3

- HW think the current TS is ok. Intel agrees, and think there are other ways to cancel. Vivo agrees this in an opt. Xiaomi as well. Samsung see no use case to continue the SR. Chair has some sympathy for Samsungs view but observes that there is no support for this proposal,

P4

- HW agrees. vivo, Intel agrees as well

P5

- Bullet 4 change involves a functional change (mistake), should not be changed. Intel agrees

-

* P1: agreed, P2 can discuss based on comments (if needed)
* P3 not agreed
* P4 agreed
* P5 agreed as baseline except bullet 4 (which can be discussed)

Continue offline

* [AT119bis-e][019][feMIMO] MAC related Corrections (Samsung)

Scope: Based on R2-2210796, referenced tdocs, online agreements and online comments, progress unclear points to determine agreeable parts. Capture agreeable parts in a CR.

Intended outcome: Report, In-principle-Agreed CR

Deadline: Schedule 1 (possibility for CB W2 if needed)

R2-2211006 Summary of [AT119bis-e][019][feMIMO] MAC related Corrections (Samsung) Samsung

* [019] noted

[R2-2209315](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209315.zip) LS on TCI state indication of CORESET#0 associated with SS#0 (R1-2208203; contact: Intel, vivo) RAN1 LS in Rel-17 NR\_FeMIMO-Core To:RAN2

* [001] noted

[R2-2209868](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209868.zip) Miscellaneous MAC Corrections on feMIMO Samsung CR Rel-17 38.321 17.2.0 1418 - F NR\_FeMIMO-Core

* [019] revised

[R2-2209497](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209497.zip) Draft CR on TCI state indication of CORESET#0 OPPO CR Rel-17 38.321 17.2.0 1409 - F NR\_FeMIMO-Core

[R2-2209479](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209479.zip) Correction on TCI state indication of CORESET#0 associated with SS#0 vivo, Intel Corporation draftCR Rel-17 38.321 17.2.0 F NR\_FeMIMO-Core

[R2-2209530](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209530.zip) On LS on activating two TCI states for CORESET#0 Ericsson discussion Rel-17

[R2-2209887](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209887.zip) Corrections to M-TRP Beam Failure Recovery Samsung Electronics CR Rel-17 38.321 17.2.0 1420 - F NR\_FeMIMO-Core

[R2-2210080](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210080.zip) Correction on Enhanced TCI States Indication for UE-specific PDCCH MAC CE Qualcomm Incorporated CR Rel-17 38.321 17.2.0 1422 - F NR\_FeMIMO-Core

[R2-2210125](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210125.zip) Miscellaneous Corrections to TS 38.321 for feMIMO CATT draftCR Rel-17 38.321 17.2.0 F NR\_FeMIMO-Core Late

[R2-2210190](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210190.zip) Miscellaneous MAC corrections for feMIMO Nokia Germany CR Rel-17 38.321 17.2.0 1427 - F NR\_FeMIMO-Core

[R2-2210726](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210726.zip) Corrections to FeMIMO MAC Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1443 - F NR\_FeMIMO-Core

[R2-2210771](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210771.zip) CR on 38.321 for SPAP SRS TCI State Indication MAC CE ZTE Corporation, Sanechips CR Rel-17 38.321 17.2.0 1444 - F NR\_FeMIMO-Core

## 6.18 RACH indication and partitioning

Tdoc Limitation: 0 tdocs

Not treated.

6.19 Coverage Enhancements

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

Tdoc Limitation: 0 tdocs

Not treated

## 6.20 Extending NR operation to 71GHz

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

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.

### 6.20.1 Organizational

Including LSs and any rapporteur inputs.

[R2-2209318](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209318.zip) LS on condition to apply channel access procedure (R1-2208231; contact: OPPO) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz To:RAN2

[R2-2209339](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209339.zip) LS reply on TCI assumption for RSSI measurement for FR2-2 (R4-2214477; contact: Apple) RAN4 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN1 Cc:RAN2

### 6.20.2 Corrections to 71 GHz operation

Including essential control plane corrections to NR operation up to 71GHz.

[R2-2209534](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209534.zip) Discussion on TCI-state indication for inter-RAT HO from E-UTRA to FR2-2 Huawei, HiSilicon discussion Rel-17 NR\_ext\_to\_71GHz-Core Late

[R2-2209593](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209593.zip) Correction for condition to apply channel access procedure OPPO CR Rel-17 38.331 17.2.0 3495 - F NR\_ext\_to\_71GHz-Core

[R2-2209599](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209599.zip) Clarification on channelAccessMode2 vivo CR Rel-17 38.331 17.2.0 3496 - F NR\_ext\_to\_71GHz-Core

[R2-2209651](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209651.zip) CP corrections for NR operation to 71GHz ZTE Wistron Telecom AB CR Rel-17 38.331 17.2.0 3499 - F NR\_ext\_to\_71GHz-Core

[R2-2209652](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209652.zip) UP corrections for NR operation to 71GHz ZTE Wistron Telecom AB CR Rel-17 38.321 17.2.0 1414 - F NR\_ext\_to\_71GHz-Core

[R2-2209862](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209862.zip) Discussion on RAN1 LS R1-2208231 Ericsson discussion Rel-17 NR\_ext\_to\_71GHz-Core

[R2-2209863](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209863.zip) Discussion on inter-RAT RSSI measurement Ericsson discussion Rel-17 NR\_ext\_to\_71GHz-Core

[R2-2210727](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210727.zip) Release FR2-2 related preference indication configurations in RRC resume Google Inc. CR Rel-17 38.331 17.2.0 3564 - F NR\_ext\_to\_71GHz-Core

## 6.21 TEI17

### 6.21.1 TEI proposals

Including incoming LSes.

Tdoc Limitation: 0 tdoc, No New proposals

Exception: Continuation of [119-e][037] Emergency Service Enhancement: 1 tdoc

Exception: Task from TSG RAN 97e Related to Per-FR Gaps: 1 tdoc

LS in

[R2-2209326](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2209326.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_119bis-eDocsR2-2209326.zip) Reply LS on Flexible Global RAN Node ID (R3-225248; contact: Ericsson) RAN3 LS in Rel-17 TEI17 To:RAN2

Chair assumes this has ben taken into account already.

* [000] Noted

Per-FR Gap

Online first: Starting from Plenary Alts

Alt 1.1 (More fine grained capability for Per-FR-Gaps, 1 bit per BC),

Alt 1.3 (more fine grained capability for Per-FR-Gaps - limited by number of carriers), and

Alt 2 (Use similar framework/procedure as for ”NeedForGap”).

Is there a need to substantially modify alts 1.1?, 1.3? Are there any aspects that makes any of the alts not acceptable? Will we need an LS out with questions?

[R2-2209581](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209581.zip) Discussion on per-FR gap Intel Corporation discussion Rel-17 TEI17

DISCUSSION

- Apple think we should determine root case of this issue, shall we include also other aspects mimo. Apple think that Alt 1.1 is not sufficient.

P2

- Nokia wonder how P2 works. Intel explains that threshold is per BC, and if < threshold then indp gap is support and > threshold then UE doesn’t apply indep gap (per FR GAP).

- Vivo wonder then that nu of CCs would impact this. Intel think that this is mainly based on the number of CCs.

P4

- ZTE wonder what the requested BC are. Intel think this is for NR DC case. Similar to cap inquiry, the BC that are intended to be configured.

* Noted

[R2-2210450](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210450.zip) higher granularity for per-FR gap capability discussion Qualcomm Incorporated discussion Rel-17 TEI17 Late

* Noted

DISCUSSION

- HW wonder if this would work for non-stand-alone. Inter node signalling may become too complex.

- QC think we can go with SA for now and address Non-SA in the next release.

- Nokia support this approach, think the main principle with Need For Gap is good, and think with simple approach, e.g. if only MN can ask also DC can be simple. Nokia think there should be some minimum performance. QC think that this can be combined with 1.3 UE capability.

- Oppo also support need for gap. Think DC can be supported. Think for 1.3 other aspects than nu of CCs need to be considered (similar to a cpl of other companies).

- Ericsson think that the increased size for 1.1 was not only due to fallbacks. Don’t think that 1.3 could be simple and based on no of CCs, think that only in a few cases more would be needed. Think that alt 2 requires inter-node combination.

- VDF think that Alt 2 would be a good approach, would be interested to understand if DC can be supported. Think 1.1 is not a good approach.

- MTK think this is TEI17 so we need a simple solutions, think number of CCs can be ok, and also the modified 1.3 from intel could be considered. MTK think it is interesting to support for NR-DC so that adds to work for Alt2.

Alt 1.3

- Apple has a different way of combining 1.3 and 2.

Alt 2

- ZTE has major concerns and would like to not include this. Could mean frequent change for the network and think this is not supported for NSA. QC think freq change is already the case for Rel16 need for gap.

Way Forward

- Chair: Simplicity will be a decision criterion.

- Chair: at first agreed to go offline, which was reverted

- Chair: consider CRs/TPs for next meeting and finally decide then.

* Exclude Alt 1.1 for now.
* On the table: Alt 1.3, Alt 1.3 per BC, Alt 2 (add info, based on current config as today, FFS excl/incl DC)

[R2-2210448](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210448.zip) higher granularity for per-FR gap capability Qualcomm Incorporated CR Rel-17 38.306 17.2.0 0816 - F TEI17 Late

[R2-2210449](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210449.zip) higher granularity for per-FR gap capability Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3543 - F TEI17 Late

[R2-2210635](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210635.zip) Capability for per-FR gaps Ericsson discussion

[R2-2209792](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209792.zip) Discussion on Per FR gap Apple discussion Rel-17 TEI17 Late

[R2-2209911](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209911.zip) Discussion on per-FR gap capability vivo discussion Rel-17 TEI17

[R2-2209912](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209912.zip) 38.331 CR on per-RF gap capability vivo draftCR Rel-17 38.331 17.2.0 F TEI17

[R2-2209913](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209913.zip) 38.306 CR on per-RF gap capability vivo draftCR Rel-17 38.306 17.2.0 F TEI17

[R2-2210006](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210006.zip) Discussion on per-FR-gaps Huawei, HiSilicon discussion Rel-17 TEI17

[R2-2210237](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210237.zip) Discussion on per-FR gaps Nokia, Nokia Shanghai Bell discussion Rel-17 TEI17

[R2-2210296](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210296.zip) Discussion on per-FR gap capability ZTE Corporation, Sanechips discussion Rel-17 TEI17

[R2-2210518](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210518.zip) Discussion on per-BC granularity of per-FR gap capability MediaTek Inc. discussion

[R2-2209495](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209495.zip) Discussion on per FR gap UE capability OPPO discussion Rel-17 NR\_newRAT-Core

*Moved from 6.0.2*

[R2-2209496](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209496.zip) Draft CR on per FR gap report R17 OPPO CR Rel-17 38.331 17.2.0 3487 - F NR\_newRAT-Core

*Moved from 6.0.2*

Emergency Service Enhancement

[R2-2210491](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210491.zip) Updated report of [Post119-e][037][NRTEI17] Emergency Service Enhancement Huawei, HiSilicon report Rel-17 TEI17

Treat online first

DISCUSSION

- Lenovo think for P1 P2, the optionality is ok, but wonders whether there will be a cap bit. HW think no signalling is needed, and are ok to add as optional cap wo signalling.

- vivo think P1 and P2 can already be supported by existing TS. HW think that the wording on acceptable cells can be regarded suitable cells was intended for a different case, and is not sufficient for the current case. Vivo think that the intention was reestablishment but the text doesn’t limit to that .. vivo think we can have one sentence to cover all of this.

- Ericsson think the sentence in 304 is not so celar, support to make this more explicit. VDF agrees, MTK too.

- VDF wonder if this is before or after Emergency attach. HW think this As behaviour is not dep on emergency attach. Intel think this depends on where the UE has been, e.g. to what extent the UE is attached or not. Vivo think the confusion is the wording “ongoing emergency call”

P1, P2, P3 are agreed:

* During EPS fallback for emergency call, upon HO failure the UE is allowed to select an acceptable cell when there is no suitable cell found, i.e. UE shall perform suitable cell search first, and may perform acceptable cell search only when no suitable cell is found. This is optional for Rel-17.
* During Emergency service fallback, upon HO failure the UE is allowed to select an acceptable E-UTRA cell when there is no suitable E-UTRA cell found. This is optional for Rel-17.
* The specification is to be updated to allow a UE to select a suitable E-UTRA cell first, and may select an E-UTRA acceptable cell if no suitable cell found, upon HO failure during EPS fallback for emergency call or during Emergency service fallback.

[R2-2210492](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210492.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 - C TEI17

- ZTE has comments of the CR. Think that the Note may not be needed. If the note remains suggest to add reference to the Note. Chair think that if the Note is not there, likely next meeting there will be attempts to specify this.

- ZTE has some textual comment, and wonder about the intention to change legacy behaviour. HW think that this was not intended.

- Chair proposes to keep the note but attempt to simplify the text to comprise only what is intended to be changed.

- MTK think the text optionally is strange, capture instead in 306 that this is optional.

Chair: Consider the comments above, continue offline (with the CR), can also attempt to clarify “ongoing emergency call”

* [AT119bis-e][017][NR17] CR Emergency Enh (Huawei)

Scope: Based on R2-2210492, take comments into account,

Intended outcome: In-Principle Agreed CR 38331, and 38306 if agreeable. Report if applicable

Deadline: EOM (assume offline only, late CB only if needed).

Online CB W2 Monday

R2-2211004 Adding optional feature without capability sigannaling for E-UTRA cell selection during EPS fallback for emergency call [CellSelection\_EmergencyFallback] Huawei, HiSilicon, Ericsson CR Rel-17 38.306 17.2.0 0821 - C TEI17

R2-2211005 Adding optional features without capability sigannaling for E-UTRA cell selection during emergency service fallback and EPS fallback for emergency call [CellSelection\_EmergencyFallback] Huawei, HiSilicon CR Rel-17 38.306 17.2.0 0822 - C TEI17

DISCUSSION

- ZTE think we should merge to one capability

- VDF think there is a difference between the capabilities. All of this is optional.

- MTK prefer to have two capabilties also in 306.

- QC prefer to have two capabilities in 306, not combine. There are differences, and earlier to implement.

* We have two caps, pursue R2-221005 (but revision e.g. for coversheet needed, check offline). R2-2211004 is not pursued.

[R2-2209914](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209914.zip) Discussion on Emergency Service Enhancement vivo discussion Rel-17 TEI17

* [017] Noted

[R2-2209915](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209915.zip) 36.304 CR on Emergency Service Enhancement vivo draftCR Rel-17 36.304 17.2.0 F TEI17

[R2-2209916](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209916.zip) 38.331 CR on Emergency Service Enhancement vivo draftCR Rel-17 38.331 17.2.0 F TEI17

### 6.21.2 Corrections

Corrections CRs (Correction to TEI or TEI + other WI code) or detailed modifications to agreed proposals

## 6.22 NR and MR-DC measurement gap enhancements

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

Tdoc Limitation: 0 tdocs

Not treated

[R2-2209346](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209346.zip) LS on priority for legacy gaps (R4-2215132; contact: Nokia) RAN4 LS in Rel-17 NR\_MG\_enh-Core To:RAN2

## 6.23 Uplink Data Compression (UDC)

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

Tdoc Limitation: 0 tdocs

Not treated

## 6.24 NR R17 Other

Includes items and topics without specific R2 Agenda Item. Includes LS in for R17 items not in a specific R2 Agenda Item.

### 6.24.1 RAN4 led Items

FR2 UL Gap

Online first

* [AT119bis-e][006][NR17] FR2 UL Gap (Apple)

Scope: Finalize LS out and MAC CR.

Intended outcome: Approved LS out, In-principle-Agreed CRs.

Deadline: W1 Friday COB (offline only)

[R2-2209796](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209796.zip) Correction on FR2 UL gap Apple discussion Rel-17 38.321 NR\_RF\_FR2\_req\_enh2

DISCUSSION online

- Lenovo agrees with capturing this in MAC, but should only capture conditions that relate to MAC. Chair think there is no rule, and UE AS TSes often cross refer without detailed specification of interaction.

- OPPO think then there is redundancy. Think this may need to be negotiated between R4 and R2.Chair think this is addressed in the fdoc below.

- Chair: In case RAN4 should indicate an opinion different to the R2 decision then we can address that next meeting.

- Chair: The CR seems agreeable, can review offline for the details.

* The conditions for UL transmission are captured in MAC.

[R2-2210081](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210081.zip) Handling of FR2 UL gap Samsung discussion

DISCUSSION online

- Apple reports that the original proposal was to just refer to R4 TS, which is simplest. Then Ericsson commented that conditions for MAC operation, scheduler etc, should be kept in MAC (to avoid that other group can change the behaviour without R2 knowing), so Apple changed.

- HW are ok to inform R4.

* We send LS to inform R4 and ask R4 to consider removing the redundancy.

[R2-2209797](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209797.zip) Draft LS to RAN4 on FR2 UL gap CR Apple discussion Rel-17 NR\_RF\_FR2\_req\_enh2

* Revised, offline

[R2-22](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209797.zip)11043 Draft LS to RAN4 on FR2 UL gap CR Apple discussion Rel-17 NR\_RF\_FR2\_req\_enh2

* [006] LS out is approved

R2-2211042 Correction on FR2 UL gap Apple CR Rel-16 38.321 17.2.0 1399 1 F NR\_RF\_FR2\_req\_enh2

* [006] in-principle agreed

RACH prioritization

Offline

* [AT119bis-e][007][NR17] RACH Prioritization (Ericsson)

Scope: Treat R2-2209309, R2-2210695, R2-2210696, R2-2210322, R2-2210323. Determine agreeable parts, confirm no R2 impact, confirm reply LS

Intended outcome: Report, Approved LS out

Deadline: Schedule 1

[R2-2209309](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209309.zip) Reply LS on clarification of RACH prioritisation rules between LTE and NR-U (R1-2207935; contact: Ericsson) RAN1 LS in Rel-17 NR\_RRM\_enh2-Core To:RAN4 Cc:RAN2

[R2-2210695](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210695.zip) Discussion on RACH prioritization rules between LTE and NR-U ZTE Corporation, Sanechips discussion Rel-17 38.331 NR\_RRM\_enh2-Core

[R2-2210696](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210696.zip) Reply LS to RAN1 on RACH prioritisation rules between LTE and NR-U ZTE Corporation, Sanechips LS out Rel-17 NR\_RRM\_enh2-Core To:RAN1

[R2-2210322](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210322.zip) [Draft] Reply LS on clarification of RACH prioritisation rules between LTE and NR-U Ericsson LS out Rel-17 NR\_RRM\_enh2-Core To:RAN1, RAN4

[R2-2210323](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210323.zip) Discussion on RACH prioritisation rules between LTE and NR-U Ericsson discussion Rel-17 NR\_RRM\_enh2-Core

Dual PA

Offline

* [AT119bis-e][008][NR17] Dual PA (Samsung)

Scope: Treat R2-2209343, R2-2210134, R2-2209381, R2-2209382, R2-2210659. Determine agreeable parts, Based on agreeable parts, progress CRs

Intended outcome: Report, Agreed-in-principle CRs

Deadline: In time for CB W2 Mon (if CB is needed),

CLOSED

CB online

R2-2211002 Report of [AT119bis-e][008][NR17] Dual PA (Samsung) Samsung

DISCUSSION

- Huawei think several things need to be checked, can check offline.

- OPPO think that RAN4 has asked for change for dualPA, and now R4 replied on our questions. Apple agrees and think we can revert our agreements and just follow R4. Ericsson agrees, we should just implement R4 request. Ericsson had a CR to clarify that Dual DC location is up to UE impl. Which then seems to be needed. QC also agree with OPPO, have some sympathy for HW as RAN4 language is maybe not crystal clear.

- Ericsson think that we may need the CR for the second DC location saying it is up to UE impl.

- Huawei think that dual LO freq is then not same as dual DC location.

* Assume we follow RAN4 and revert previous RAN2 agreement.
* RAN2 assumes that extending the meaning of dualPA-Architecture capability in TS 38.306 from Rel-15 as proposed in R4-2206503 is backward compatible (can be revisited if needed).
* The CR R2-2210659 is postponed

*Chair: Continue next meeting.*

[R2-2209343](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209343.zip) Reply LS on clarification of dualPA-Architecture capability (R4-2214924; contact: Samsung) RAN4 LS in Rel-17 NR\_RF\_FR1\_enh To:RAN2

* [008] Noted

[R2-2210134](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210134.zip) Correction to definition of dualPA-Architecture capability indication Ericsson, OPPO, Samsung CR Rel-15 38.306 15.18.0 0813 - F NR\_RF\_FR1\_enh

[R2-2209381](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209381.zip) Correction to definition of dualPA-Architecture capability indication Ericsson, OPPO, Samsung CR Rel-16 38.306 16.10.0 0812 - A NR\_RF\_FR1\_enh

[R2-2209382](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209382.zip) Correction to definition of dualPA-Architecture capability indication Ericsson, OPPO, Samsung CR Rel-17 38.306 17.2.0 0811 - A NR\_RF\_FR1\_enh

* CRs above postponed

[R2-2210659](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210659.zip) Correction to description of secondPA-TxDirectCurrent field Ericsson, Samsung, OPPO CR Rel-17 38.331 17.2.0 3558 - F NR\_RF\_FR1\_enh

Moved from 6.24.2

* postponed

R2-2210239 Clarification to dualPA-Architecture capability Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.2.0 0814 - F NR\_RF\_FR1\_enh-Core Withdrawn

DC Location Reporting

Offline

* [AT119bis-e][009][NR17] DC Location Reporting (Apple)

Scope: Treat R2-2209334, R2-2210693, R2-2210694, R2-2210240, R2-2210773, R2-2210788. Determine agreeable parts, Based on agreeable parts, progress CRs

Intended outcome: Report, Agreed-in-principle CRs

Deadline: In time for CB W2 Mon (if CB is needed),

[R2-2209334](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209334.zip) LS on intra-band UL CA DC default location clarification (R4-2214419; contact: Apple) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

* [009] Noted

[R2-2210693](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210693.zip) Discussion on default DC location ZTE Corporation, Sanechips discussion Rel-17 38.331 NR\_RF\_FR2\_req\_enh2-Core

* [009] Noted

[R2-2210240](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210240.zip) Clarification to intra-band UL CA DC default location clarification Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3530 - F NR\_RF\_FR2\_req\_enh2-Core

* [009] not pursued

[R2-2210694](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210694.zip) 38331\_CR\_Correction on DC location ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3561 - F NR\_RF\_FR2\_req\_enh2-Core

* [009] merged with CR3568

[R2-2210773](https://urldefense.com/v3/__http:/www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs/R2-2210773.zip__;!!CTRNKA9wMg0ARbw!z_yneJDSPG09ol4_X8AQRx8V3MybRbD4abhN5fxkoniZwEi4zm1nIFOKV5Wa36tJGAsjPA$)   Addition of missing need codes in  CC-State-r17 and other corrections          Lenovo CR       Rel-17  38.331  17.2.0   3567    -           F          NR\_RF\_FR2\_req\_enh2-Core LATE

* [009] merged with CR3568

[R2-2210788](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210788.zip) Clarification to intra-band UL CA DC default location clarification.  Apple CR Rel-17 38.331 17.2.0 3568 - F NR\_RF\_FR2\_req\_enh2-Core LATE

* [009] revised

[R2-2210991](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210788.zip) Clarification to intra-band UL CA DC default location clarification.  Apple. Lenovo CR Rel-17 38.331 17.2.0 3568 1 F NR\_RF\_FR2\_req\_enh2-Core LATE

* [009] in-principle agreed

FBG2 BW Classes

Wait for RAN4

[R2-2210243](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210243.zip) Introduction of FR2 FBG2 CA BW classes Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, Ericsson, ZTE Corporation, Sanechips, Qualcomm, Xiaomi Communications CR Rel-17 38.331 17.2.0 2867 5 B NR\_RF\_FR2\_req\_enh2-Core R2-2207974

[R2-2210245](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210245.zip) Introduction of FR2 FBG2 CA BW classes Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, Ericsson, ZTE Corporation, Sanechips, Qualcomm, Xiaomi Communications CR Rel-17 38.306 17.2.0 0678 4 B NR\_RF\_FR2\_req\_enh2-Core R2-2207975

[R2-2210241](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210241.zip) Reply LS on release independence aspects of newly introduced FR2 CA BW Classes and CBM/IBM UE capability Nokia, Nokia Shanghai Bell LS out Rel-17 NR\_RF\_FR2\_req\_enh2-Core R2-2207973 To:RAN4

FBG5 BW Classes

Offline first

* [AT119bis-e][010][NR17] FBG5 BW Classes (Qualcomm)

Scope: Treat R2-2209347, R2-2209621, R2-2209622, R2-2210540, R2-2210244, R2-2210662, R2-2210701, R2-2210539, R2-2209384. Determine agreeable parts, Based on agreeable parts, progress CRs, LS out if applicable

Intended outcome: Report, Agreed-in-principle CRs, Approved LS out if applicable.

Deadline: In time for CB W2 Mon (if CB is needed),

R2-2211009 Summary of email discussion [AT119bis-e][010][NR17] FBG5 BW Classes (Qualcomm) Qualcomm Incorporated

DISCUSSION online

P1 – P4

- ZTE are ok except P3, should not be left to UE impl.

- QC think P3 is just that the UE should report something for legacy gNB.

- Apple agrees wit P3.

- HW think P3 is consistent with previous agreement. MTK also think P3 is like an observation.

- Xiaomi are ok to leave to UE impl.

P5

- Xiaomi think we should ask R4 something. Think that e.g. mimo-layer and BW is not clear for fallback cases. QC think this is a RAN2 question, and we need to make clear how our signalling is used. OPPO agree with QC, there is just different views exactly what signalling means.

- Chair think we can just address the issue of RAN4 proposal. HW think there there is no benefit as it is required that feature sets are identical for the fallbacks. HW think indeed we don’t have same understanding of legacy signalling. QC wonder if we can really signal different feature sets.

- xiaomi and QC hs different view on where to signal the new parameter.

- ZTE think that with the new signalling, there is no benefit as feature sets would need to be signalled anyway.

* RAN2 confirms the following RAN4 requirement for bandwidth class Fallback Group applies to the new FBG5.

It is not mandatory for a UE to be able to fallback to lower order CA bandwidth class configuration that belong to a different fallback group

* A legacy gNB not supporting FBG5 ignores band combinations with bandwidth class of FBG5 in the reported UE capability.
* When the UE reports support for a band combination with FBG5 bandwidth class, it is up to the UE implementation to additionally report an entry of the same band combination with a legacy bandwidth class, e.g. FBG2
* From RAN2’s perspective, the UE supporting a band combination (e.g. CA\_n46O) is not always required to support the same band combination with a fallback bandwidth class of the same FBG (e.g. CA\_n46N). However, the UE may support such fallback according to the existing fallback band combination requirement, e.g. when the combinations of CC BWs defined for the band combinations are the same. No RAN2 specification change is necessary on this.

*Chair: we postpone, continue next meeting.*

[R2-2209347](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2209347.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_119bis-eDocsR2-2209347.zip) LS on new contiguous BW classes for legacy networks (R4-2215160; contact: Qualcomm) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

* [010] noted

[R2-2210244](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210244.zip) Signalling impacts due to FBG5 Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

[R2-2210662](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210662.zip) Consideration on the FR2 Fallback Group 5 ZTE Corporation, Sanechips discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

[R2-2210701](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210701.zip) (Draft)Reply LS on new contiguous BW classes for legacy networks ZTE Corporation, Sanechips LS out Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN4

[R2-2210539](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210539.zip) Discussion on the fallback of new contiguous BW classes Huawei, HiSilicon discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

[R2-2209384](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209384.zip) Discussion on R4 LS on new FR2 BW Class OPPO discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

* [010] 5 tdocs are Noted

[R2-2209621](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209621.zip) Introduction of maximum aggregated BW for FBG5 Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3498 - C NR\_RF\_FR2\_req\_enh2-Core

[R2-2209622](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209622.zip) Introduction of maximum aggregated BW for FBG5 Qualcomm Incorporated CR Rel-17 38.306 17.2.0 0808 - C NR\_RF\_FR2\_req\_enh2-Core

[R2-2210540](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210540.zip) Introduction of FR2 FBG5 CA BW classes Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3432 1 B NR\_RF\_FR2\_req\_enh2-Core R2-2208511

* [010] the CRs are postponed

Miscellaneous

Offline

* [AT119bis-e][011][NR17] Misc (Qualcomm)

Scope: Treat R2-2209620, R2-2209798, Determine agreeable parts, Based on agreeable parts, progress CRs,

Intended outcome: Report, Agreed-in-principle CRs, Approved LS out if applicable.

Deadline: In time for CB W2 Mon (if CB is needed),

[R2-2209620](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209620.zip) CRS-IM default network configuration assumptions for MBSFN configuration in non-DSS scenario Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3497 - F NR\_demod\_enh2-Core

[R2-2209798](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209798.zip) Clarification on the NR HST configuration Apple CR Rel-17 38.331 17.2.0 3507 - F NR\_HST\_FR1\_enh

Simultaneous RxTx

Await LS from RAN4

[R2-2210396](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210396.zip) On UE capabilities for simultaneous Rx-Tx Ericsson discussion TEI17

### 6.24.2 RAN1 led Items

### 6.24.3 Other

MINT

Offline

* [AT119bis-e][012][NR17] MINT (Ericsson)

Scope: Treat R2-2209305, R2-2210657, R2-2210658. Determine agreeable parts, Based on agreeable parts, progress CRs

Intended outcome: Report, Agreed-in-principle CRs.

Deadline: In time for CB W2 Mon (if CB is needed)

[R2-2209305](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209305.zip) Reply LS on system information extensions for minimization of service interruption (MINT) (C1-225386; contact: Ericsson) CT1 LS in Rel-17 MINT To:RAN2 Cc:SA2

* [012] Noted

[R2-2210657](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210657.zip) Correction to disasterRoamingFromAnyPLMN Ericsson, Lenovo CR Rel-17 36.331 17.2.0 4878 - F TEI17

* [012] revised

[R2-2210658](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210658.zip) Correction to disasterRoamingFromAnyPLMN Ericsson, Lenovo CR Rel-17 38.331 17.2.0 3557 - F TEI17

* [012] revised

[R2-2210](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210657.zip)973 Correction to disasterRoamingFromAnyPLMN Ericsson, Lenovo CR Rel-17 36.331 17.2.0 4878 1 F TEI17

* [012] in-principle agreed

[R2-2210](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210658.zip)974 Correction to disasterRoamingFromAnyPLMN Ericsson, Lenovo CR Rel-17 38.331 17.2.0 3557 1 F TEI17

* [012] in-principle agreed

# 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)

Tdoc limitation: 0

This agenda item will not be treated in this meeting.

[R2-2209308](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209308.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

## 7.2 NB-IoT and eMTC support for NTN

Tdoc Limitation: 5 tdocs

### 7.2.1 Organizational

LSs, rapporteur inputs and other organizational documents. CR Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications, etc - please contact the CR rapporteurs before providing contributions on those aspects.

[R2-2209359](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209359.zip) Reply to LS on UE capability signalling for IoT-NTN (S2-2207839; contact: Vodafone) SA2 LS in Rel-17 LTE\_NBIOT\_eMTC\_NTN To:RAN2 Cc:CT1, RAN3

[R2-2209659](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209659.zip) Discussion of the LS on the deactivation of AS functions Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2209715](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209715.zip) [Draft] Reply LS on the deactivation of access stratum due to discontinuous coverage Qualcomm Incorporated LS out Rel-17 LTE\_NBIOT\_eMTC\_NTN To:SA2, CT1 Cc:SA1

[R2-2210075](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210075.zip) Analysis on the CN impacts for TN and NTN capabilities based on SA2 LS Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2210076](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210076.zip) [draft] Reply to LS on SA2 Nokia, Nokia Shanghai Bell LS out Rel-17 LTE\_NBIOT\_eMTC\_NTN To:SA2 Cc:CT1, RAN3

[R2-2210246](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210246.zip) Discussion on SA2 LS on the deactivation of access stratum due to discontinuous coverage Samsung R&D Institute UK discussion

[R2-2210525](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210525.zip) Applicable cases of AS functions deactivation due to DC ZTE Corporation, Sanechips discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2210528](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210528.zip) [DRAFT] Reply LS on RAN feedback for UE capabilities signalling for IoT NTN ZTE Corporation, Sanechips LS out Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core To:SA2 Cc:RAN3

### 7.2.2 Stage 2 corrections

[R2-2209661](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209661.zip) Correction on user consent for UE coarse location request Huawei, HiSilicon CR Rel-17 36.300 17.2.0 1370 - F LTE\_NBIOT\_eMTC\_NTN

### 7.2.3 UP corrections

Impacts to 36.321, 36.322, 36.323, 37.324

[R2-2209441](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209441.zip) Correction on UE-eNB RTT calculation MediaTek Inc. CR Rel-17 36.321 17.2.0 1548 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2209660](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209660.zip) Discussion on the retransmission timer handling in IoT NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2210094](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210094.zip) DRX correction for IoT NTN OPPO CR Rel-17 36.321 17.2.0 1549 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210571](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210571.zip) Correction on UE-eNB RTT calculation MediaTek Inc. CR Rel-17 36.321 17.2.0 1550 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2210642](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210642.zip) Discussion on DRX HARQ RTT timer for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2210697](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210697.zip) Clarifications for IoT NTN MAC CEs Samsung R&D Institute UK CR Rel-17 36.321 17.2.0 1551 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210699](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210699.zip) Correction on HARQ RTT timer with Koffset ZTE Corporation, Sanechips CR Rel-17 36.321 17.2.0 1552 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2210755](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210755.zip) Correction to (UL) HARQ RTT Timer for eMTC in NTNs Ericsson CR Rel-17 36.321 17.2.0 1553 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210756](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210756.zip) R17 IoT NTN User Plane issues Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

### 7.2.4 CP corrections

#### 7.2.4.1 RRC corrections

Impacts to 36.331

[R2-2209440](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209440.zip) Miscellaneous corrections to TS 36.331 for IoT NTN MediaTek Inc. CR Rel-17 36.331 17.2.0 4872 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2210079](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210079.zip) Miscellaneous corrections for IoT-NTN Nokia Solutions & Networks (I) CR Rel-17 36.331 17.2.0 4876 - D LTE\_NBIOT\_eMTC\_NTN

[R2-2210413](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210413.zip) Discussion on the update of SIB32 Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2210530](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210530.zip) Clarification on epochTime in SIB31 ZTE Corporation, Sanechips CR Rel-17 36.331 17.2.0 4877 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2210531](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210531.zip) Clarification on dedicated SIB31 ZTE Corporation, Sanechips discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2210698](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210698.zip) CR for RRC corrections for IoT NTN Samsung R&D Institute UK CR Rel-17 36.331 17.2.0 4879 - F FS\_LTE\_NBIOT\_eMTC\_NTN, LTE\_NBIOT\_eMTC\_NTN

[R2-2210704](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210704.zip) Add a new field for access stratum release Google Inc. CR Rel-17 36.331 17.2.0 4880 - F NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2210706](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210706.zip) Discussion on RRC corrections for IoT NTN Samsung R&D Institute UK discussion Rel-17

[R2-2210736](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210736.zip) Discussion on neighbour cell information Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2210744](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210744.zip) Corrections on HandoverPreparationInformation in 36.331 CATT CR Rel-17 36.331 17.2.0 4881 - F LTE\_NBIOT\_eMTC\_NTN Late

R2-2210745 Corrections on introducing UL gap configuration in 36.331 CATT CR Rel-17 36.331 17.2.0 4882 - F LTE\_NBIOT\_eMTC\_NTN Late Withdrawn

[R2-2210746](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210746.zip) Corrections on SIB32 update notification in 36.331 CATT CR Rel-17 36.331 17.2.0 4883 - F LTE\_NBIOT\_eMTC\_NTN Late

[R2-2210747](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210747.zip) Discussion on the NTN configuration at CHO CATT discussion Rel-17 36.331 LTE\_NBIOT\_eMTC\_NTN Late

#### 7.2.4.2 Idle/Inactive mode corrections

Impacts to 36.304

[R2-2209716](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209716.zip) Clarification on RAT search during discontinuous coverage Qualcomm Incorporated CR Rel-17 36.304 17.2.0 0854 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210700](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210700.zip) Corrections on IoT NTN idle mode Samsung R&D Institute UK CR Rel-17 36.304 17.2.0 0856 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210731](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210731.zip) Miscellaneous idle mode corrections Ericsson CR Rel-17 36.304 17.2.0 0857 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210763](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210763.zip) Deactivation of access stratum due to discontinuous coverage Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core

### 7.2.5 UE capabilities corrections

[R2-2209439](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209439.zip) Add support of reception of SIB32 MediaTek Inc. CR Rel-17 36.306 17.2.0 1860 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2209712](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209712.zip) Discussion on SA2 LS reply on UE capability for IoT NTN Qualcomm Incorporated discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2209713](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209713.zip) NTN UE capability signaling modification for eMTC Qualcomm Incorporated CR Rel-17 36.331 17.2.0 4873 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2209714](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209714.zip) NTN UE capability signaling modification for NB-IoT Qualcomm Incorporated CR Rel-17 36.331 17.2.0 4874 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210078](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210078.zip) Corrections for capability for NPRACH segmentated Transmission Nokia Solutions & Networks (I) CR Rel-17 36.306 17.2.0 1861 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2210414](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210414.zip) UE capability signalling for IoT-NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2210734](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210734.zip) UE capability signalling in IoT NTN Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2210776](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210776.zip) Correction in the description of ntn-Connectivity-EPC-r17 Lenovo, Motorola Mobility (rapporteur) CR Rel-17 36.306 17.2.0 1862 - F LTE\_NBIOT\_eMTC\_NTN-Core

# 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: 1 tdocs

### 8.1.1 Organizational

Including LSs and any rapporteur inputs.

[R2-2209328](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209328.zip) LS on NCR Solutions (R3-225253; contact: ZTE) RAN3 LS in Rel-18 FS\_NR\_netcon\_repeater To:SA3, SA5 Cc:RAN2, SA2

[R2-2209329](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209329.zip) Progress on NCR identification and authorization (R3-225254; contact: ZTE) RAN3 LS in Rel-18 FS\_NR\_netcon\_repeater To:RAN1 Cc:RAN2

[R2-2210294](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210294.zip) Work plan for Network-controlled repeaters ZTE Corporation, Sanechips Work Plan Rel-18 FS\_NR\_netcon\_repeater

### 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.

[R2-2209367](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209367.zip) Signaling for side control information and RRM functions CATT discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2209630](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209630.zip) Discussion on C-plane aspects for NCR-MT Fujitsu discussion Rel-18 NR\_netcon\_repeater

[R2-2209639](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209639.zip) Signalling of side control information for NCR Intel Corporation discussion Rel-18 NR\_netcon\_repeater

[R2-2209667](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209667.zip) Discussion on NCR configuration signaling and RRM functions Huawei, HiSilicon discussion Rel-18 NR\_netcon\_repeater

[R2-2209680](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209680.zip) NCR side control signalling and other RRC and RRM aspects Nokia, Nokia Shanghai Bell discussion NR\_netcon\_repeater

[R2-2209697](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209697.zip) Signalling for side control information to support NR network-controlled repeaters AT&T, FirstNet discussion

[R2-2209705](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209705.zip) Configuration of signaling for side control information Qualcomm Inc. discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2209773](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209773.zip) Discussion on Signaling for Side Control Information Apple discussion Rel-18 DUMMY

[R2-2209933](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209933.zip) Discussion on Signaling and procedures for side control information Lenovo discussion Rel-18

[R2-2210135](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210135.zip) Control plane signaling and procedures of network-controlled repeater NEC Corporation discussion

[R2-2210155](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210155.zip) Discussion on signalling for side control information CMCC discussion Rel-18 NR\_netcon\_repeater

[R2-2210200](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210200.zip) Network-controlled repeaters - key issues Samsung R&D Institute UK discussion

[R2-2210207](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210207.zip) Considerations on NCR fwd link config Sony discussion Rel-18 NR\_netcon\_repeater

[R2-2210279](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210279.zip) Signalling for NCR side control information MediaTek Inc. discussion Rel-18

[R2-2210295](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210295.zip) Consideration on NCR signalling and RRM functions ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2210334](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210334.zip) Discussion on RAN2 topics for NCR Ericsson discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2210386](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210386.zip) Discussion on NCR Related Procedures vivo discussion Rel-18

[R2-2210431](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210431.zip) Consideration of network-controlled repeaters Kyocera discussion Rel-18 R2-2208293

[R2-2210454](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210454.zip) Discussion on NCR capability framework Philips International B.V. discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2210563](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210563.zip) Discussion on RAN2 issues for NCR LG Electronics discussion Rel-18 NR\_netcon\_repeater

[R2-2210572](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210572.zip) On RAN2 impact of Network-Controlled Repeaters China Telecom Corporation Ltd. discussion

### 8.1.3 Repeater management

Including Identification and authorization of network-controlled repeaters, taking into accout feedback from SA3.

Note: we will wait for SA3 reply, so no contributions are expected to be treated in RAN2#119-bis.

[R2-2209706](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209706.zip) Management of Network-Controlled Repeater Qualcomm Inc. discussion Rel-18 FS\_NR\_netcon\_repeater

## 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.

[R2-2209351](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209351.zip) LS on Terminology Alignment for Ranging/Sidelink Positioning (S2-2207129; contact: Xiaomi) SA2 LS in Rel-18 FS\_Ranging\_SL To:RAN1, RAN2, RAN3 Late

[R2-2209588](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209588.zip) Work Plan for Study Item on Expanded and Improved NR Positioning CATT, Intel Corporation, Ericsson Work Plan FS\_NR\_pos\_enh2

[R2-2210040](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210040.zip) Discussion on Terminology alignment with SA2 Xiaomi discussion Rel-18

[R2-2210041](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210041.zip) Draft Reply LS on Terminology Alignment for Ranging & Sidelink Positioning Xiaomi LS out Rel-18 To:SA2 Cc:RAN1, RAN3

### 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.

[R2-2209400](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209400.zip) Discussion on SL Positioning CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209402](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209402.zip) Draft Reply LS on Terminology Alignment for Ranging/Sidelink Positioning CATT LS out Rel-18 FS\_NR\_pos\_enh2 To:SA2 Cc:RAN1, RAN3

[R2-2209425](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209425.zip) Discussion on sidelink positioning Huawei, HiSilicon discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209536](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209536.zip) SL-PRS configuration MediaTek Inc. discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209560](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209560.zip) Discussion on sidelink positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209606](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209606.zip) Support of sidelink positioning Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209607](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209607.zip) Report of email discussion 406 on sidelink Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2 Late

[R2-2209671](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209671.zip) Protocol aspects of sidelink positioning Nokia Germany discussion Rel-18

[R2-2209693](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209693.zip) Discussion on Sidelink Positioning InterDigital, Inc. discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209729](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209729.zip) Further discussion on sidelink positioning OPPO discussion Rel-17 FS\_NR\_pos\_enh2

[R2-2209767](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209767.zip) Sidelink Positioning Architecture and Protocol Stack Apple discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209979](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209979.zip) Discussion on potential solutions for SL positioning Spreadtrum Communications discussion Rel-18

[R2-2210003](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210003.zip) On SL Positioning Protocol and Architecture Aspects Lenovo discussion Rel-18

[R2-2210042](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210042.zip) Discussion on SL positioning Xiaomi discussion Rel-18

[R2-2210085](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210085.zip) Discussion on sidelink positioning ZTE, Sanechips discussion Rel-18 NR\_pos\_enh-Core

[R2-2210115](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210115.zip) Discussion on Sidelink Positioning LG Electronics Deutschland discussion

[R2-2210167](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210167.zip) Considerations on Sidelink positioning CMCC discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2210210](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210210.zip) Considerations on sidelink positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2210316](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210316.zip) SL positioning Terminology and Protocol Aspects Ericsson discussion Rel-18

[R2-2210363](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210363.zip) Study of Sidelink Positioning Architecture, Signaling and Procedures Qualcomm Incorporated discussion

[R2-2210481](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210481.zip) Discussion on SL positioning Samsung discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2210546](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210546.zip) Discussion on out-of-coverage sidelink positioning Samsung R&D Institute UK discussion

### 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.

[R2-2209403](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209403.zip) Discussion on RAT dependent integrity CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209426](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209426.zip) Discussion on RAT-dependent integrity Huawei, HiSilicon discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209561](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209561.zip) Discussion on RAT-dependent integrity vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209608](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209608.zip) Integrity for RAT dependent positioning methods Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209694](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209694.zip) Discussion on RAT-dependent Integrity InterDigital, Inc. discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209725](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209725.zip) Consideration on RAT-dependent integrity OPPO discussion Rel-17 FS\_NR\_pos\_enh2

[R2-2209961](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209961.zip) Discussion on RAT-dependent positioning integrity Lenovo discussion Rel-18

[R2-2209980](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209980.zip) Discussion on solutions for integrity of RAT-dependent positioning techniques Spreadtrum Communications discussion Rel-18

[R2-2210084](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210084.zip) Discussion on RAT-dependent methods positioning integrity ZTE, Sanechips discussion Rel-18 NR\_pos\_enh-Core

[R2-2210116](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210116.zip) Discussion on RAT-dependent positioning integrity Xiaomi discussion

[R2-2210140](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210140.zip) Discussion on RAT-dependent integrity CMCC discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2210211](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210211.zip) Considerations on solution for integrity of RAT dependent positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2210317](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210317.zip) RAT-dependent integrity and TP for TR Ericsson discussion Rel-18

[R2-2210364](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210364.zip) Integrity of NR Positioning Technologies Qualcomm Incorporated discussion

[R2-2210547](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210547.zip) Discussion on integrity of RAT dependent positioning techniques Samsung R&D Institute UK 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.

[R2-2209401](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209401.zip) Discussion on LPHAP CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209405](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209405.zip) Report of [Post119-e][407][POS] LPHAP upper layer enhancements (CATT) CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209424](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209424.zip) Discussion on the LPHAP Huawei, HiSilicon discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209562](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209562.zip) Discussion on LPHAP vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209609](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209609.zip) Support of LPHAP Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209695](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209695.zip) Discussion on LPHAP InterDigital, Inc. discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209727](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209727.zip) Further consideration on LPHAP OPPO discussion Rel-17 FS\_NR\_pos\_enh2

[R2-2209768](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209768.zip) Potential LPHAP enhancements Apple discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209962](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209962.zip) Discussion on low power high accuracy positioning Lenovo discussion Rel-18

[R2-2210083](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210083.zip) Discussion on LPHAP ZTE, Sanechips discussion Rel-18 NR\_pos\_enh-Core

[R2-2210117](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210117.zip) Discussion on LPHA positioning Xiaomi discussion

[R2-2210168](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210168.zip) Considerations on LPHAP CMCC discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2210212](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210212.zip) Considerations on on solution for Low Power High Accuracy Positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2210318](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210318.zip) LPHAP and Text Proposal for TR Ericsson discussion Rel-18

[R2-2210365](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210365.zip) Enhancements to Positioning in RRC\_INACTIVE State for LPHAP Qualcomm Incorporated discussion

[R2-2210482](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210482.zip) Discussion on LPHAP Samsung 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.

[R2-2209404](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209404.zip) Discussion on RedCap Positioning CATT discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209563](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209563.zip) Discussion on RedCap positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209643](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209643.zip) Discussion on RedCap Positioning Huawei, HiSilicon discussion

[R2-2209696](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209696.zip) Discussion on Redcap Positioning InterDigital, Inc. discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209756](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209756.zip) RedCap positioning Intel Corporation discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2209963](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209963.zip) Discussion on RedCap positioning Lenovo discussion Rel-18

[R2-2210082](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210082.zip) Discussion on RedCap positioning ZTE, Sanechips discussion Rel-18 NR\_pos\_enh-Core

[R2-2210118](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210118.zip) Discussion on RedCap UE positioning Xiaomi discussion

[R2-2210319](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210319.zip) Positioning for RedCap UEs Ericsson discussion Rel-18

## 8.3 Network energy savings for NR

(xx-Core; leading WG: RAN1; REL-18; WID: RP-213554)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.3.1 Organizational

LS, workplan, email discussion etc

[R2-2209365](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209365.zip) LS on skeleton of TR 38.864 for NR network energy savings (R3-225203; contact: Huawei) RAN3 LS in Rel-18 FS\_Netw\_Energy\_NR To:RAN1 Cc:RAN2

[R2-2210415](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210415.zip) Work plan for NR network energy savings Huawei, HiSilicon Work Plan Rel-18 FS\_Netw\_Energy\_NR

[R2-2210416](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210416.zip) TR 38.864 skeleton for study on network energy savings for NR Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210417](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210417.zip) Report of [POST119-e][313][NES] Details of solutions (Huawei) Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

### 8.3.2 gNB and UE supporting techniques

Contributions should focus on how to achieve more efficient operation dynamically and/or semi-statically and finer granularity adaptation of transmissions and/or receptions in one or more of network energy saving techniques in time, frequency, spatial, and power domains, with potential support/feedback from UE, and potential UE assistance information

[R2-2209474](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209474.zip) On solutions aiming at reducing periodic DL transmissions (1-4) CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209475](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209475.zip) Autonomous SCell activation and gNB DTX/DRX CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209476](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209476.zip) Assistance Information from the UE CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209735](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209735.zip) Group signalling for network energy saving techniques Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209736](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209736.zip) Assistance information from UE Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209757](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209757.zip) Further discussion on NW DTX-DRX Apple discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209758](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209758.zip) Discussion on Network energy saving for CONNECTED UE - group CHO and BWP adaptation Apple discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209759](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209759.zip) Discussion on Network energy saving for IDLE and INACTIVE UE - cell (re)selection and SSB-less Apple discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2209809](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209809.zip) Discussions on time domain techniques for network energy saving vivo discussion Rel-18

[R2-2209810](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209810.zip) cell (re)selection and handover considering network energy saving vivo discussion Rel-18

[R2-2209811](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209811.zip) Discussions on frequency domain techniques for network energy saving vivo discussion Rel-18

[R2-2209886](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209886.zip) Aspects on Network energy savings VODAFONE Group Plc discussion Rel-18

[R2-2209964](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209964.zip) Discussion on supporting of network energy savings for NR Lenovo discussion Rel-18

[R2-2209965](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209965.zip) NES impact to RRC\_CONNECTED UE Lenovo discussion Rel-18

[R2-2210019](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210019.zip) Discussion on network energy savings OPPO discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210020](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210020.zip) Discussion on the UE assistance information OPPO, Apple discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210053](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210053.zip) Energy saving for On-demand other SIBs Xiaomi discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210105](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210105.zip) Consideration on network energy saving Fujitsu discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210128](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210128.zip) Common Channel Updates for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210129](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210129.zip) Mobility and Access Control for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210141](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210141.zip) Discussion on time domain NES solutions CMCC discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210142](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210142.zip) Discussion on UE assistance information for NES CMCC discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210143](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210143.zip) Discussion on Mobility issues CMCC discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210185](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210185.zip) Details on time domain solutions for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210225](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210225.zip) Discussion on idle and inactive state UE grouping for NES gNB DTX Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210226](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210226.zip) SIB-less and UE wake up request signal Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210227](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210227.zip) Handover enhancement for NES Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210235](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210235.zip) Aspects on Network Energy Saving Techniques Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210252](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210252.zip) Energy Saving from RRC Idle Operation Lenovo discussion FS\_Netw\_Energy\_NR

[R2-2210253](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210253.zip) Further aspects on NW DTX/DRX Ericsson discussion

[R2-2210254](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210254.zip) Paging Enhancements for Beams Ericsson discussion

[R2-2210255](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210255.zip) Handling of Legacy UEs on a NES Capable Cell Ericsson discussion

[R2-2210282](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210282.zip) Time domain NES aspects InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210283](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210283.zip) Frequency domain NES aspects InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210284](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210284.zip) UE assistance information for NES InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210337](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210337.zip) UE awareness by gNB and coexistence with legacy UEs for NES NEC Telecom MODUS Ltd. discussion

[R2-2210369](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210369.zip) Network energy saving techniques Qualcomm Incorporated discussion Rel-18

[R2-2210370](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210370.zip) NES Proposed Common Signalling Techniques Assessment Qualcomm Incorporated discussion Rel-18

[R2-2210383](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210383.zip) NW DTX/DRX operation for NES ETRI discussion

[R2-2210418](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210418.zip) Discussion on SSB-less and SIB1-less techniques for NES Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210419](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210419.zip) Discussion on cell activation triggered by UL WUS Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210420](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210420.zip) Discussion on network DTX Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210478](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210478.zip) Discussion on network energy saving Sharp discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210556](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210556.zip) Considerations on Energy saving KDDI Corporation discussion

[R2-2210595](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210595.zip) Discussion on resource adaptation for NES LG Electronics Inc. discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2210611](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210611.zip) Assistance Information for NES Samsung discussion Rel-18

[R2-2210612](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210612.zip) Cell Prioritization for NES Samsung discussion Rel-18

[R2-2210613](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210613.zip) Resource Adaptation for NES Samsung discussion Rel-18

[R2-2210653](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210653.zip) SSB/SIB/Paging and Group HO LG Electronics Finland discussion Rel-18

[R2-2210656](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210656.zip) Considerations on Network Energy Saving techniques MediaTek Inc. discussion Rel-18

=> Revised in [R2-2210772](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210772.zip)

[R2-2210772](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210772.zip) Considerations on Network Energy Saving techniques MediaTek Inc. discussion Rel-18

[R2-2210665](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210665.zip) Supporting access via NES cell ZTE corporation, Sanechips discussion Rel-18

[R2-2210666](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210666.zip) Techniques in various domains and UE assistance information for network energy saving ZTE corporation, Sanechips discussion Rel-18

[R2-2210667](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210667.zip) Supporting multiple power states ZTE corporation, Sanechips discussion Rel-18

[R2-2210707](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210707.zip) Discussion on Network Energy Saving in RAN2 study NTT DOCOMO 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: 5 tdocs .

### 8.4.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan). Including input on work splits and tasks for other groups (LS outs), which is expected dependent also on other progress (treated last).

[R2-2210500](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210500.zip) RAN2 Work Plan for Rel-18 Further NR Mobility Enhancements WI MediaTek Inc., Apple Work Plan R2-2206981

- Chair wonder if maybe next meeting is a good meeting to send LS to SA3.

- Ericsson think that running CRs should be started somewhat earlier. MTK think that this was missed in the beginning and think it depends on the progress. HW agrees it would be good to see TPs earlier.

* Noted

### 8.4.2 L1 L2 Mobility

#### 8.4.2.1 Target Performance Enhancements

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.

[R2-2209394](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209394.zip) Open Issues on Target Performance Enhancements CATT discussion Rel-18 NR\_Mob\_enh2-Core

**Proposal 1: No security update support in Rel-18 with L1/L2 based mobility.**

**Proposal 2: For UE processing, ASN.1 decoding and validity/compliance check of candidate cell configuration are performed upon reception of the candidate cells configuration.**

**Proposal 3: For UE processing, the following should be performed after receving the cell switch command,**

* **L2 reconfiguration/reset (only applicable to inter-DU case)**
* **RF retuning (only needed for inter-frequency), baseband retuning**

**Proposal 4: It is supported to perform DL synchronization to candidate/target cell before receiving the cell switch command.**

**Proposal 5: Assuming support of performing TRS tracking and CSI measurement of candidate/target cell before cell switch command. The feasibility is to be checked with RAN1.**

**Proposal 8: L1L2 based mobility supports the following CA scenarios:**

1. **PCell change without SCell change**
2. **PCell change with SCell change**

**Proposal 9: Support NR-DC scenario in L1L2 based mobility, at least for the PSCell change without MN involvement case.**

DISCUSSION

P1

- Lenovo: is the understanding that if network want to change security, then L3 mobility can be used? CATT Yes.

- Apple agrees with the stronger wording to not support security update by LTM.

- MTK agrees as well, and think L3 message is needed.

P2

- Oppo support but think we need to consider if reestablishment shall be used when this check fails. CATT think we can leave this FFS.

- ZTE wonder if this check includes UE caps check? Chair wonder if not the network is responsible for this. ZTE think there may be many cand config and may activate all of them at the same time.

- xiaomi think that cand configuration check may fail at the time of reception, but can succeed at the tome of switch. Can reduce failure possibility. QC agrees, and think indeed there may be a risk for more failures. QC think the time for this is minimal.

- HW think ASN.1 decoding is a significant part of latency and think one model is received at the time, and think it makes sense to check immediately. If there are issues with the configuration then we can handle the failure.

- Ericsson think that P2 comes naturally, and e.g. with model 2 the UE would need to do everything upfront.

- Apple think that anyway the UE will need to do a check, e.g. in case there is another RRC reconfiguration between the candidate prep and the switch command. Think this should be left for UE impl.

Chair: there is quite a lot of support for P2.

P4P5

- Apple think P4 and P5 are dependent on other groups and only possible in some scenarios. But support that they can be pursued when possible,.

- Intel think that for P5 R1 need to confirm. Think it is difficult to make assumptions on this.

- Chair wonder if we need to do anything at all, or whether R2 need to ask.

P3

- Ericsson point out that we already decided on a configuration for L2 reset.

P9

- Ericsson think that there is still impact on MN, e.g. for inter-SN. Think we need to think more about this. CATT intended intra-SN, agrees with Ericsson.

* No security update support in Rel-18 with L1/L2 based mobility.
* FFS whether ASN.1 decoding and validity/compliance check of candidate cell configuration are performed upon reception of the candidate cells configuration. FFS if this need to be specified.
* For UE processing, the following (not exhaustive) is assumed to be performed after receiving the cell switch command:

MAC/RLC reset (when configured)

RF retuning (e.g. needed for inter-frequency), baseband retuning

* R2 assumes that the following items may be discussed by RAN1 and RAN4 (and may be scenario specific):

- Whether to perform DL synchronization to candidate/target cell before receiving the cell switch command. R2 assumes this is feasible at least for the case that the target cell is already an active serving cell.

- Whether to support of performing TRS tracking and CSI measurement of candidate/target cell before/by cell switch command

* L1L2 based mobility supports the following CA scenarios:

PCell change without SCell change

PCell change with SCell change

* Support NR-DC scenario in L1L2 based mobility, at least for the PSCell change without MN involvement case, i.e. intra-SN.

[R2-2209600](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209600.zip) Discussion on latency model of L1 L2 mobility Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209480](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209480.zip) Enhancements to improve performance for L1 L2 mobility vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209625](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209625.zip) Latency reduction for synchronization procedure for L1/L2 mobility OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209722](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209722.zip) Discussion of the major delay components and possible solutions Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209929](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209929.zip) Target Performance Enhancements for L1L2-based Inter-cell Mobility MediaTek Inc. discussion

[R2-2210055](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210055.zip) Latency reduction required for high performance beam Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210065](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210065.zip) Considerations on reducing HO interruption time Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210106](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210106.zip) Consideration on L1/L2 based inter-cell mobility Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210163](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210163.zip) Considerations on target performance enhancements CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210192](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210192.zip) Target enhancements and latency model for L1/2 triggered handover Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210230](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210230.zip) Framework fulfilling WID Objectives Lenovo discussion NR\_Mob\_enh2-Core

[R2-2210330](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210330.zip) Enhancements on delay components for L1/L2 inter-cell mobility Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210349](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210349.zip) On Interruption Time Reduction in LLM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210470](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210470.zip) Consideration for Target Performance Enhancements of L1/L2 mobility Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210590](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210590.zip) Discussion on TA for candidate cell for L1L2 mobility LG Electronics Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210616](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210616.zip) Further Considerations on L1/L2 Signaling Based Mobility ZTE Corporation,Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210722](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210722.zip) Target Performance Enhancements and supported scenarios Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

#### 8.4.2.2 RRC

Including Candidate solutions focused on RRC

WID: Configuration and maintenance for multiple candidate cells to allow fast application of configurations for candidate cells [RAN2, RAN3]. Including the outcome of email discussion [Post119-e][048][feMob] Candidate target configurations for L1/L2 mobility (Ericsson)

[R2-2210329](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210329.zip) [Post119-e][048][feMob] Candidate target configurations for L1/L2 mobility Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P3

- vivo think it is too early to exclude, as R1 progress may warrant a different model, as ICBM structure may be reused. ZTE agrees and think we should first clarify the scenarios.

- IDT think that the models are outlined as very static. Maybe we need a more flexible way. Think that we may need a lot of overlap between configurations if so static.

- Ericsson think model 3 doesn’t work for inter DU. IDT agrees with this.

Message or IE?

- Ericsson understands that IE would mean that multiple cond configs could eb provided in one message.

P5

- Nokia proposes Lower Layer Mobility.

- Chair: Support the Nokia proposal but it seems this is not agreeable. MTK (rap) proposes that we can discuss via email.

- LLM is used already for GPRS.

* A L1/L2 inter-cell mobility candidate (target) configuration is received within an RRC message before the L1/L2 dynamic switch is triggered.
* RAN2 continues the discussion on the RRC models by focusing on Model 1 and Model 2 and stage-3 details.

a. Model 1: One RRCReconfiguration message (or FFS RRCReconfiguration IEs) for each candidate target configuration

b. Model 2: One CellGroupConfig IE (FFS additional IEs) for each candidate target configuration

Chair: FFS if there are strong reasons to go back to discuss other models. If so, we can consider modifications to the decision ab ove, e.g. if R1 preferences gives strong reasons.

Can consider terminology by email.

* [AT119bis-e][023][feMob] Terminology (Nokia)

Scope: continue discussion on a better name for L1L2 centric mobility. Other terminology could also be addressed, e.g. the naming of the part of the procedure when serving cell change happens could be improved, e.g.: cell change, L1L2 cell switch, LLM cell change etc.

Intended outcome: Agreeable proposal(s)

Deadline: CB W2 Monday

CLOSED

R2-2210824 Report of [AT119bis-e][023][feMob] Terminology (Nokia) Nokia

DISCUSSION

P1

- Ericsson would like to avoid LX right now. Ericsson think anyway this is L1L2 triggered mobility as measurmeents are L1, prefer LLTM

- vivo support P1. Think the measurement is up to network impl.

P2

- some objections against the abbreviation on Tohru

P3

- HW think the WID already uses subsequent, can use this. VDF and Samsung agrees. Many companies: no need for four letter abbreviations.

Ericsson think we should define what LTM is. Nokia agrees. HW think this may be in 38300. Chair: next meeting.

* RAN2 to use “LTM” as term for the L1/L2-triggered mobility.
* Use the term “cell switch” for the procedure of triggering change of cells via the LTM feature
* Use the term “Subsequent” LTM for the case when cell switch between L1/L2 mobility candidates is done without RRC reconfiguration in between.

[R2-2209628](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209628.zip) Discussion on configuration related issues for L1/L2 mobility OPPO discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P2-P5: Chair wonder if the intention is that subsequent L1L2 mobiltiy is supported without RRC reconfig. OPPO confirms yes, and think this could be a separate proposal for clarity (Px)/

Px: VDF wonder about the security, is this an issue (e.g. similar to CPAC)? Chair think we can wait, and think later about whether solutions are required, Ericssonn think there is no security issue, PDCP anchor is not changed.

P5

- HW think that release is wrong, it gives the impression that RRC reconfiguration need to be used

P2

- IDT wonder how this works, what if src cell is reconfigured, does all the candidates need reconfiguration. Chair think that there would need to be a restriction e,g, that all deltas reconfigure the same fields ….

- VDF think that we should use a reference config as for sleelctive acticvatoin. OPPO think a separate reference config is not needed, it gives overhead.

- Apple think indeed a ref config can be used and is easy to use. MTK agrees.

P4

- Apple think this is inefficient. IDT think it has to be a candidate config in order to be referenced in the MAC CE. Chair think we can discuss this later

P6

- Chair: Wide support.

* RAN2 assumes that sequential L1L2 cell change between Candidates without RRC reconfiguration can be supported.
* RAN2 assumes that candidate cell configuration can only be modified / released by Network (FFS later whether some optimization should be applied e.g. for release).
* For L1L2 mobility will support that candidate configurations are delta configurations on top of a reference configuration. FFS if the reference configuration is a separate reference configuration or e.g. the current configuration.
* For L1L2 mobility, Target Pcell/SCell can be current SCell/PCell, i.e., current SCell/PCell can be configured as candidates.

[R2-2210333](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210333.zip) RRC aspects of L1/L2 based inter-cell mobility Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

P6 only

- Apple think that solution a is an existing one can be the base. FFS other enhancements. Ericsson would be ok with a as baseline.

- Chair: there is quite a lot of support for considering a: the baseline, leave FFS for now (can think about it).

* FFS how the UE determine the BWPs (for DL and UL) to be used upon the execution of L1/L2 inter-cell mobility

[R2-2210056](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210056.zip) Selection between Model 1 and Model 2 for candidate cell configuration Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209723](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209723.zip) Dynamic RRC pre-configuration for L1L2 mobility Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210351](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210351.zip) On Dynamic Switching in LLM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210350](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210350.zip) On RRC Configuration Options for LLM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209395](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209395.zip) Discussion on RRC Configuration for L1L2 Mobility CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209481](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209481.zip) RRC configurations of candidate target cell for L1/L2 mobility vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209601](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209601.zip) Discussion on configurations for multiple candidate cells of L1 L2 mobility Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209787](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209787.zip) Conditional handover and other critical aspects in L2/L1 mobility Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209869](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209869.zip) RRC Modeling for Candidate Cells in L1/L2 Inter-cell Mobility Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209930](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209930.zip) RRC Configurations for L1L2-based Inter-cell Mobility MediaTek Inc. discussion

[R2-2209941](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209941.zip) RRC configuration for lower layer based mobility Lenovo discussion Rel-18

[R2-2210107](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210107.zip) Configuration and maintenance for multiple candidate target cells Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210164](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210164.zip) Considerations on RRC related issues CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210171](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210171.zip) Discussion on candidate cell configuration and maintenance ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210193](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210193.zip) RRC Support for L1/2 Triggered Handover Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210398](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210398.zip) Considerations on possible restrictions in RRC configuration NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210444](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210444.zip) Discussion on RRC model for L1L2 mobility LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210471](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210471.zip) RRC Configurations of L1/L2 mobility Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210561](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210561.zip) Signaling structure with flexibility and efficiency LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

#### 8.4.2.3 Dynamic Switch

Including Candidate solutions focused on dynamic switch not addressed by the RRC subclause above.

WID: Dynamic switch mechanism among candidate serving cells (including SpCell and SCell) for the potential applicable scenarios based on L1/L2 signalling [RAN2, RAN1]

[R2-2210194](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210194.zip) L1/2 handover trigger Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P1/P2

- Nokia are ok, but think that DCI could also be a possibility. Maybe first RRC details should be progressed first.

- Apple think DCI based trigger should not be precluded.

P3

- Xiaomi think we should use legacy MAC CE for Scell activation Deactivation.

- Ericsson think that we need to consider the scenario, strange that Scells of another DU is activated/deactivated by serving DU.

- MTK agrees with intention.

- Nokia think this ok.

- VDF think that L1L2 switch and Scell activation/deactivation and SPCell activation deactivation is by separate MAC CE.

- Samsung MTK wonder if not L3 measurement should be used for this FFS how to trigger Scell activation.

P4:

- Lenovo wonders how this compares to current RRC cond reconfiguration. IDT think that either each SpCell has a cond config, or a Cand Config has a number of SpCells.

* RAN2 assumes L1/2 mobility trigger information is conveyed in a MAC CE, FFS if the MAC CE or a DCI is used for the actual triggering.
* RAN2 assumes the MAC CE for L1/2 mobility trigger contains at least a candidate configuration index.
* FFS if it should be possible to perform SCell activation/deactivation (amongst SCells associated with the candidate configuration) simultaneously with L1 L2 mobility trigger MAC CE (if so, FFS how this is determined).

[R2-2209854](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209854.zip) Discussion on L1 L2 mobility procedure ASUSTeK discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P1

- MTK think we need R1 input. Nokia agrees that this is not only a R2 decision.

- chair asks if to send LS. Ericsson think R1 is working on this and no LS is needed.

P2

- HW and Nokia think CFRA resource is indicated by RRC

- vivo think we should consider early RACH. HW think this is up to R1.

- Ericsson think that we should not assume anything on TCI state.

* RAN2 assumes that both RACH-based (CFRA, CBRA) and RACH-less procedures for L1 L2 mobility switch may be supported. RACH-less if the UE doesn’t need to acquire TA during the cell switch. RAN2 understands that the feasibility of RACH-less may depend on RAN1, and expect that RAN1 is working on this.
* RAN2 assumes RACH resource for CFRA for L1 L2 dynamic switch may be provided in RRC configuration (or potentially by MAC CE FFS).
* FFS if the MAC CE can indicate TCI state(s) (or other beam info) to activate for the target Cell(s), dep on RAN1 progress.

[R2-2210331](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210331.zip) Execution procedure for L1/L2 based inter-cell mobility Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P6 P7

- Ericsson think also we need to discuss what is the MAC reset, also when MAC is not reset.

- Option 1 RRC, Option 2 MAC CE

- P6-P9: Apple think this behaviour is determined by RRC, no need to have this by MAC CE. IDT agrees.

- MTK agrees with Ericsson that for intra DU MAC will be partially reset,

- Xiaomi think this need to be in MAC CE, otherwise it may not be possible to do several consecutive Switches without RRC reconfiguration, e.g. Inter-DU -> intra-DU .. vivo agrees and whether to reset dep on intra-DU and inter-DU. VDF think we cannot use same configuration for inter-DU as for intra-DU. Ericsson think that we don’t need to support consecutive switches without RRC reconfiguration.

- HW think MAC reset avoidance is not needed.

* R2 assumes that at L1L2 cell switch: Whether the UE performs partial or full MAC reset (FFS what partial reset is, e.g. to avoid data loss), re-establish RLC, perform data recovery with PDCP is explicitly controlled by the network. R2 assumes that this can be configured by RRC. FFS if MAC CE indication(s) is/are needed.

[R2-2209525](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209525.zip) Solutions for dynamic cell switch in L1/L2 mobility Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209701](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209701.zip) L1/L2 Mobility Considerations Qualcomm Incorporated discussion Rel-18

[R2-2209396](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209396.zip) Discussion on Dynamic Switch Mechanism CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209482](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209482.zip) Discussion on dynamic switch for L1 L2 mobility vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209546](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209546.zip) Discussion on scenarios for dynamic switch SHARP Corporation discussion NR\_Mob\_enh2-Core

[R2-2209590](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209590.zip) Discussion on some issues in L1L2 mobility NTT DOCOMO, INC. discussion Rel-18

[R2-2209602](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209602.zip) Discussion on synchronization enhancements for dynamic switch Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209627](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209627.zip) Open issues on dynamic switching for L1/L2 mobility OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209724](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209724.zip) Discussion on L1/L2 Mobility operations Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209786](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209786.zip) Viewing SpCell/SCell dynamic switch as an intra-DU L2/L1 handover Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209870](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209870.zip) L1/L2 signalling for inter-cell mobility Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209931](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209931.zip) Cell Switch for L1L2-based Inter-cell Mobility MediaTek Inc. discussion

[R2-2209942](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209942.zip) Lower layer based dynamic mobility Lenovo discussion Rel-18

[R2-2209977](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209977.zip) Discussion on L1/L2 based inter-cell mobility Spreadtrum Communications discussion Rel-18

[R2-2210165](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210165.zip) Considerations on dynamic switch CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210172](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210172.zip) Discussion on dynamic switch for L1L2 mobility ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210399](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210399.zip) Basic considerations on dynamic switch NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210445](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210445.zip) Discussion on dynamic switch for L1L2 mobility LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210762](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210762.zip) Consideration on L1L2 mobility KDDI Corporation discussion

#### 8.4.2.4 Inter cell BM L1 measurements and beam ind

WID: L1 enhancements for inter-cell beam management, including L1 measurement and reporting, and beam indication [RAN1, RAN2] Note: Early RAN2 involvement is necessary, including the possibility of further clarifying the interaction between this bullet with the previous bullet

[R2-2209932](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209932.zip) RAN2 Aspects of L1 Enhancements for L1L2-based Inter-cell Mobility MediaTek Inc. discussion

DISCUSSION

P1:

L1 measurements processing in the UE.

- Chair wonder if R1 is discussing this? There are lot of proposals in R2. MTK think most can be discussed in R1 and think R1 can send LS to R2. HW agrees.

- Intel think that robustness, ping-pong freq measurements etc can be addressed by RAN2. Think that reporting need to be changed significantly. LG agrees that we should give input to R1.

- Lenovo wonder if measurement evaluation can reasonably be done by R1? It is quite a lot.

- IDT wonder what L1 measurement are considered? The L1 samples that we currently use for L3 measurements, or L1 measurements e.g. as CSI measurement reporting.

- VDF think it is difficult for RAN2 to input, and we can trust RAN1 to do the right job. Ericsson agrees, think that R1 started the discussions in this meeting. Ericsson think that meas eval can be in R1 spec of R2 spec, but R1 need to first decide if this is needed.

Inter-frequency measurements:

- ZTE think other groups are waiting for R2 on support of inter-freq measurements. ZTE propose that this shall be supported. LG has similar views.

- Chair think that currently agreed inter-freq scenarios (we switch roles of cells that are in use already by the UE), doesn’t require any inter-freq measurements.

- Chair: it seems many companies think that we should support inter-freq scenarios in general if possible by R4 and R1. TMO confirm that this is a must. MTK think we should clarify why this is a must, for clarification. TMO think many operators has scattered spectrum with many frequencies, and a mobility mechanism that exclude inter-freq is very limiting.

P2:

- Chair wonder if we need to assume anything. MTK and other companies think this can be left to R1.

- QC wonder if we can assume unified TCI as a baseline. RAN1 need to decide on this.

* RAN2 assumes that RAN1 will drive discussions on L1 measurement enhancements, if any. If RAN1 identifies the need for e.g. event reporting, filtering etc, RAN2 can then be involved if needed.
* Inter-freq L1L2 mobility: R2 Confirms that For L1L2 mobility inter-freq scenarios in general should be supported (including mobility to inter-frequency cell that is not a current serving cell), including the support of inter-frequency L1 measurements, if feasible by R4 and R1.
* RAN2 assumes that whether to use the unified TCI framework as the baseline for beam indication for L1L2 mobility is up to RAN1 (RAN2 observes that L1/L2 mobility need to support inter-freq cases).
* We send an LS to RAN1 and RAN4
* [AT119bis-e][024][feMob] LS to R1 and R4 (MediaTek)

Scope: Inform R1 and R4 about agreements for AI 8.4.2.4 (at least). Can discuss if other or all agreements should be included.

Intended outcome: Agreeable LS

Deadline: CB W2 Monday

[R2-2211000](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2211000.zip) LS on RAN2 agreements about L1/L2-triggered mobility (LTM) RAN2 (MediaTek Inc) LSout

* Add the new agreements from today (last day) to the LS, the final revision is approved unseen, in R2-2211061

[R2-2210173](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210173.zip) Discussion on inter-cell L1 measurements ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210451](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210451.zip) Measurements for L1/L2 mobility InterDigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209397](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209397.zip) Discussion on L1 inter-cell beam measurement and indication CATT discussion NR\_Mob\_enh2-Core

[R2-2209483](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209483.zip) Discussion on L1 measurements and beam indication vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209603](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209603.zip) Discussion on enhancements to L1 measurements Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209626](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209626.zip) Discussion on measurement related issue of L1/L2 mobility OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209871](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209871.zip) Considerations on the L1 Measurement and Report Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209992](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209992.zip) Discussion on the issue of L1 enhancements for ICBM Spreadtrum Communications discussion Rel-18

[R2-2210057](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210057.zip) Discussion on inter-cell beam management Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210166](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210166.zip) Potential solutions for L1 measurements CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210231](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210231.zip) Mobility procedural delegation to lower layers Lenovo discussion NR\_Mob\_enh2-Core

[R2-2210332](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210332.zip) L1 measurements and beam indication for L1/L2 based inter-cell mobility Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210352](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210352.zip) On Configuration of Inter-Cell LLM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210472](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210472.zip) Inter-cell beam management enhancements for L1/L2 mobility Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210723](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210723.zip) L1 measurement and beam indication for L1L2 mobility Huawei, HiSilicon 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.

[R2-2209604](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209604.zip) Discussion on NR-DC with selective activation cell of groups Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P1

- VDF think it is ok as baseline.

- Apple think UE doesn’t release SN candidates with these proposals, should not SNs be released? Intel think we can discuss further, related to P7. Apple think P1 is incomplete.

- Chair: Yes P1 is incomplete, and need to be complemented, we are attempting to agree a baseline.

- HW think that P1 excludes some ways, seems to exclude a configuration in configuration.

- Ericsson think that the network should indicate which configurations to keep. Intel think this can be FFS.

- Nokia think that P1 is ok, nested config can be discussed later.

- Samsung think that it need to be addressed what happens at a PSCell change indicated from the network.

- ZTE wonder if the network can update execution conditions, could this be kept FFS. Chair wonders what is the intention, e.g. to update the execution conditions with some optimized method? (as RRC reconfiguration can be done at any time). Chair: no clarifications, so not possible to capture a useful FFS at this point

P2

- VDF think that both configuration and conditions are different for CPA and CPC, e.g. CPA would use MN config as reference.

- vivo think that A4 can be used for both CPA and CPC, are we excluding this.

- LG agrees with p2, and think the cand can be the same fro CPA and CPC.

- Ericsson think that in legacy the CPA and CPC configurations are different, and should agree first on that

- HW doesn’t agree with VDF and Ericsson, no need to have different configuration.

- Chair: ok so it seems we cannot progress on this.

P3

- Apple think this is going into small details, think R2 should look at the option where UE and network knows the reference config, and the reference config doesn’t need to be signalled every time.

- QC think that the option 1 and 2 are UE impl details. No need to require anything in particular.

- CATT think there are a number of disadvantages with mandating O1, this is not preferred.

P4

- Nokia think there shall not be a need for RRC signalling for security update.

- Ericsson think there may be a need after the second one. Intel point out that the network can any way reconfigure for security change.

- VDF think we need to check with SA3, e.g. whether old keys can be reused if the UE goes back to a previous cell.

- Chair: We can send an LS to SA3 from next meeting.

* Baseline procedure to support subsequent secondary cell group change (FFS if UE keeps all configurations or if those are indicated by the network, FFS support of nested configs):

a. Step 1: when the execution condition of a CPC candidate PScell is met, a UE performs the execution of CPC towards this candidate PScell.

b. Step 2: After finishing the PSCell addition or change, the UE doesn’t release conditional configuration of other candidate PSCells for subsequent CPC, the UE continues evaluating the execution conditions of other candidate PScells.

c. Step 3: When the execution condition of a candidate PScell is met, the UE performs the execution of CPC towards this candidate PSCell.

* Confirm that “CPA” selective activation of cell groups will be supported for this WI objective
* Confirm that we aim to support delta configuration, i.e. that there need to be a known reference.
* RAN2 aim to support selective activation of cell groups without RRC reconfiguration with respect to security (FFS, need to consult with SA3 at some point in time).

[R2-2210308](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210308.zip) NR-DC with selective activation Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209398](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209398.zip) Consideration on Selective Activation of Cell Groups in NR-DC CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210073](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210073.zip) Further analysis on the solution aspects for selective activation Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2210174](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210174.zip) Discussion on NR-DC with selective activation of the cell groups ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210724](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210724.zip) NR-DC with selective activation of cell groups Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210516](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210516.zip) Discussion on selective SCG activation MediaTek Inc. discussion NR\_Mob\_enh2-Core

[R2-2209685](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209685.zip) Selective activation of cell groups in NR-DC Qualcomm Incorporated discussion Rel-18

[R2-2209789](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209789.zip) Security from UE mobility across SNs and limiting SN changes to within a single MN Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209788](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209788.zip) Description of a Reference Config for multi-SN handling Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209484](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209484.zip) Discussion on NR-DC with selective activation cell of groups vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209629](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209629.zip) Discussion on selective activation of SCGs for NR-DC OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209872](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209872.zip) Considerations on Subsequent CPAC after SCG Change Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210581](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210581.zip) Selective Cell Group Activation LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209950](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209950.zip) Discussion on SCG selective activation Lenovo discussion Rel-18

[R2-2210473](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210473.zip) Discussion of selective activation Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210488](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210488.zip) Discussion on NR-DC with selective activation of the cell groups Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209974](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209974.zip) Discussion on NR-DC with selective activation cell of groups Spreadtrum Communications discussion Rel-18

[R2-2210156](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210156.zip) Discussion on NR-DC with selective activation cell of groups CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210617](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210617.zip) Discussion on NR-DC with selective activation of the cell groups China Telecom discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210671](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210671.zip) Discussion on NR-DC with selective activation of the cell groups DENSO CORPORATION discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210400](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210400.zip) Possible flows of selective SCG activation NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210401](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210401.zip) Consideration on selective SCG activation NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2209589](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209589.zip) Discussion on NR-DC with selective activation cell of groups NTT DOCOMO, INC. discussion Rel-18

[R2-2209594](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209594.zip) Further mobility enhancements for NR-DC Vodafone discussion Rel-18

[R2-2210452](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210452.zip) Selective activation of cell groups InterDigital, Inc. 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)

[R2-2209552](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209552.zip) Work Plan for Rel-18 SI on XR Enhancements for NR Nokia, Qualcomm (Rapporteurs) Work Plan Rel-18 FS\_NR\_XR\_enh

[R2-2209553](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209553.zip) SA2 Status for XR Nokia (Rapporteur) discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209554](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209554.zip) SA4 Status for XR Nokia (Rapporteur) discussion Rel-18 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 RAN2 can make use of PDU sets and/or data bursts in UL or DL direction.

Including discussion on how PDU sets can be mapped to DRBs and whether/how SA2 discussion on PDU set mapping to QoS flows or sub-flows impacts RAN2

[R2-2209414](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209414.zip) On mapping PDU Sets for XR Futurewei discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209450](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209450.zip) Discuss on PDU Sets Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209467](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209467.zip) PDU sets characterization and mapping CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209485](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209485.zip) Discussion on PDU sets and data bursts for XR awareness vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209555](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209555.zip) PDU Set Identification Details Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209631](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209631.zip) DRB mapping for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209635](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209635.zip) XR related information for awareness in RAN Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209644](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209644.zip) PDU-set to DRB mapping for XR ZTE Corporation, Sanechips discussion

[R2-2209668](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209668.zip) Discussion on QoS support with PDU Set granularity Xiaomi Communications discussion

[R2-2209686](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209686.zip) Discussion on PDU sets and data bursts InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209698](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209698.zip) Support for XR-aware scheduling AT&T discussion

[R2-2209777](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209777.zip) PDU Sets and Mapping of QoS flows and DRBs for XR Apple discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209846](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209846.zip) Discussion on PDU Set for XR-awareness NEC Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209873](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209873.zip) Number of DRBs for XR VODAFONE Group Plc discussion Rel-18

[R2-2209937](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209937.zip) Discussion on PDU sets and data burst awareness in RAN Lenovo discussion Rel-18

[R2-2209987](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209987.zip) Discussion on XR-awareness info Spreadtrum Communications discussion Rel-18

[R2-2210005](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210005.zip) Discussion on handling and usage of PDU sets and data bursts related information in RAN2 Samsung R&D Institute India discussion Rel-18

[R2-2210008](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210008.zip) Discussion on PDU-Sets handling KT Corp. discussion

[R2-2210021](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210021.zip) Discussion on PDU Set awareness OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210108](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210108.zip) Considerations on PDU Set handling Fujitsu discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210201](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210201.zip) Handling of XR PDU sets in RAN Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210213](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210213.zip) Considerations on XR awarness Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210360](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210360.zip) Discussion on PDU Sets and Data Bursts for XR Google Inc. discussion

[R2-2210381](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210381.zip) Discussion XR-Awareness for XR services Meta discussion Rel-18

[R2-2210508](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210508.zip) Considerations on PDU sets and Data bursts in RAN CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210593](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210593.zip) Discussion on PDU sets and data bursts LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210603](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210603.zip) Discussion on PDU Sets mapping to DRBs TCL Communication discussion Rel-18

[R2-2210619](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210619.zip) Discussion on PDU set parameters for XR-awareness III discussion FS\_NR\_XR\_enh

[R2-2210628](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210628.zip) Discussion on PDU sets and data bursts NTT DOCOMO, INC. discussion Rel-18

[R2-2210689](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210689.zip) Discussion on PDU Set and Data Burst Ericsson discussion Rel-18 FS\_NR\_XR\_enh

#### 8.5.2.2 PDU prioritization

Including discussion on whether the XR awareness impacts traffic prioritization of XR traffic, e.g. whether there are impacts to LCP mechanism

[R2-2209451](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209451.zip) Discussion on PDU prioritization Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209468](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209468.zip) Prioritization of XR traffic CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209486](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209486.zip) Discussion on PDU prioritization for XR awareness vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209556](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209556.zip) LCP Impacts for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209632](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209632.zip) Handling and in-sequence delivery of XR packets with different priorities Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209646](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209646.zip) PDU-set prioritization for XR ZTE Corporation, Sanechips discussion

[R2-2209687](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209687.zip) Discussion on PDU prioritization InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209778](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209778.zip) Enhancements for Traffic Prioritization in XR Apple discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209889](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209889.zip) Discussion on PDU prioritization Lenovo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209990](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209990.zip) Some LCP enhancements based on the traffic awareness Spreadtrum Communications discussion Rel-18

[R2-2210013](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210013.zip) Discussion on LCP impact Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210022](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210022.zip) Discussion on PDU prioritization OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210046](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210046.zip) Discussion on the LCP enhancements for XR ITRI discussion FS\_NR\_XR\_enh

[R2-2210202](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210202.zip) Discussion about XR-awareness impacts on LCP Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210361](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210361.zip) Discussion on PDU prioritization Google Inc. discussion

[R2-2210507](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210507.zip) Impact on PDU Prioritization by XR Awareness CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210536](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210536.zip) Discussion on traffic prioritization of XR traffic Beijing Xiaomi Mobile Software discussion

[R2-2210560](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210560.zip) Discussion on the prioritization for XR LG Electronics Inc. discussion FS\_NR\_XR\_enh

[R2-2210620](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210620.zip) Discussion on PDU prioritization for XR-awareness III discussion FS\_NR\_XR\_enh

[R2-2210649](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210649.zip) On PDU prioritisation MediaTek Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210688](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210688.zip) Discussion on PDU Prioritization Ericsson discussion Rel-18 FS\_NR\_XR\_enh

#### 8.5.2.3 PDU discard

Including discussion on whether the XR awareness impacts PDU discarding of XR traffic, e.g. whether existing PDU discard mechanisms are sufficient

[R2-2209452](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209452.zip) Discussion on PDU discard Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209469](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209469.zip) PDU Discard for XR Services CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209487](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209487.zip) Discussion on PDU discard for XR awareness vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209557](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209557.zip) PDU Discard for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209586](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209586.zip) PDU Set and PDCP Discard for XR Samsung discussion Rel-18

[R2-2209633](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209633.zip) Packet discard optimizations for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209645](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209645.zip) PDU-set discard functionality for XR ZTE Corporation, Sanechips discussion

[R2-2209669](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209669.zip) Discussing on PDU discarding of XR traffic Xiaomi Communications discussion

[R2-2209688](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209688.zip) Discussion on PDU discard InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209779](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209779.zip) Enhancements for PDU Discarding in XR Apple discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209888](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209888.zip) Discussion on PDU discarding Lenovo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209993](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209993.zip) PDU discard of XR traffic Spreadtrum Communications discussion Rel-18

[R2-2210023](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210023.zip) Discussion on PDU discard OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210203](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210203.zip) Discussion on PDU discarding for XR traffic Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210362](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210362.zip) Discussion on PDUs Discarding Google Inc. discussion

[R2-2210371](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210371.zip) Discussion on PDU discard for XR video traffic Futurewei discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210375](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210375.zip) PDU Set Handling Meta discussion Rel-18

[R2-2210506](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210506.zip) Considerations on PDU Discarding of XR Traffic CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210559](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210559.zip) Discussion on the discard and retransmission for XR LG Electronics Inc. discussion FS\_NR\_XR\_enh

[R2-2210627](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210627.zip) Discussion on PDU discard NTT DOCOMO, INC. discussion Rel-18

[R2-2210650](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210650.zip) On the need and impact of PDU discard in the RAN MediaTek Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210687](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210687.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 DRX enhancements for XR, e.g. how to handle XR traffic periodicity, jitter and frame-size variations, how frequent changes does XR traffic require for DRX, etc.

[R2-2209453](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209453.zip) DRX enhancements for XR Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209470](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209470.zip) DRX Enhancements to Address Cycle Mismatch CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209471](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209471.zip) Serving XR traffic with minimum power consumption CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209488](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209488.zip) Discussion on DRX enhancements for XR power saving vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209502](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209502.zip) On DRX enhancements for handling non-integer traffic periodicity Futurewei discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209511](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209511.zip) Discussion on CDRX enhancement for XR based on outputs from RAN1 OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209512](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209512.zip) Discussion on CDRX enhancement for Power saving OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209515](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209515.zip) Analysis on XR traffic characteristics for C-DRX enhancement Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209516](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209516.zip) Further discussion on C-DRX enhancements for XR Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209634](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209634.zip) C-DRX enhancements for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209649](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209649.zip) DRX enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2209670](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209670.zip) Discussing on XR-specific C-DRX enhancements Xiaomi Communications discussion

[R2-2209689](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209689.zip) Discussion on DRX enhancements InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209780](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209780.zip) On C-DRX Enhancement for HARQ Handling in XR Apple discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209938](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209938.zip) Discussion of DRX enhancement Lenovo discussion Rel-18

[R2-2210009](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210009.zip) DRX enhancement for power saving in XR LG Electronics Inc. discussion FS\_NR\_XR\_enh

[R2-2210061](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210061.zip) Discussion on power saving scheme for XR Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210144](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210144.zip) Discussion on DRX enhancements for XR-specific power saving CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210186](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210186.zip) DRX enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210189](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210189.zip) Candidate Solutions on C-DRX Enhancements NEC Telecom MODUS Ltd. discussion Rel-18

[R2-2210214](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210214.zip) Considerations on XR specific C-DRX power saving enhancements Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210359](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210359.zip) DRX Enhancement for XR Google Inc. discussion

[R2-2210501](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210501.zip) C-DRX enhancements for XR-specific power saving DENSO CORPORATION discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210651](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210651.zip) C-DRX enhancements for XR MediaTek Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210690](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210690.zip) Discussion on RAN2-specific CDRX aspects Ericsson discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210692](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210692.zip) Discussion on solutions for DRX cycle mismatch and jitter Ericsson discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210705](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210705.zip) Discussion on DRX enhancements for XR-specific power saving III discussion FS\_NR\_XR\_enh

#### 8.5.3.2 Other enhancements

Including discussion on non-DRX power saving enhancements for XR

[R2-2209454](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209454.zip) Non-DRX power saving enhancements for XR Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209455](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209455.zip) Information to RAN for UE power savings Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209489](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209489.zip) XR specific information for RAN power saving vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209648](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209648.zip) Other Power Saving enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2209690](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209690.zip) Discussion on PDCCH monitoring enhancements InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209781](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209781.zip) XR-Specific Power Saving for Configured Scheduling Apple discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209939](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209939.zip) Discussion of PDCCH monitoring enhancement Lenovo discussion Rel-18

[R2-2209982](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209982.zip) Discussion on power saving in XR Spreadtrum Communications discussion Rel-18

[R2-2210010](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210010.zip) Enhancement in legacy power saving for XR LG Electronics Inc. discussion FS\_NR\_XR\_enh

[R2-2210062](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210062.zip) Discussion on XR-awareness for power saving scheme design Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210145](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210145.zip) Discussion on XR-specific power saving CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2210187](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210187.zip) Multiple CG configurations for XR Nokia, Nokia Shanghai Bell 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

R2-2210764 On XR Capacity Enhancements Dell Technologies discussion Rel-18 Withdrawn

#### 8.5.4.1 Feedback enhancements

Including discussion on UE feedback enhancements for XR capacity, e.g. how BSR can enhance capacity for XR (e.g. new BSR table, how to reflect delay in BSR, etc.)

[R2-2209456](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209456.zip) UE feedback enhancements for capacity improvement Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209472](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209472.zip) BSR enhancement for XR capacity CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209490](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209490.zip) Discussion on feedback enhancements for XR-specific capacity improvements vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209517](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209517.zip) Discussion on buffer status report for XR Google Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209558](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209558.zip) BSR for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209591](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209591.zip) BSR enhancement for XR capacity MediaTek Inc. discussion Rel-18

[R2-2209636](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209636.zip) Enhancements to Buffer Status Reporting for XR Traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209650](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209650.zip) UE feedback enhancements for XR capacity ZTE Corporation, Sanechips discussion

[R2-2209672](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209672.zip) Discussing on UE feedback enhancements for XR capacity Xiaomi Communications discussion

[R2-2209691](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209691.zip) Discussion on XR-specific feedback enhancements InterDigital, Inc. discussion FS\_NR\_XR\_enh

[R2-2209782](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209782.zip) BSR Enhancements for XR Apple discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209828](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209828.zip) Discussion on BSR enhancements for XR Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209890](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209890.zip) Discussion on UE Feedback enhancements Lenovo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209983](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209983.zip) Some feedback enhancements on XR capacity Spreadtrum Communications discussion Rel-18

[R2-2210024](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210024.zip) Discussion on feedback enhancement OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210047](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210047.zip) Discussion on the UE feedback enhancements for XR ITRI discussion FS\_NR\_XR\_enh

[R2-2210150](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210150.zip) Consideration on BSR enhancement for XR CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210191](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210191.zip) Feedback Enhancements for Capacity Improvement NEC Telecom MODUS Ltd. discussion Rel-18

[R2-2210215](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210215.zip) Considerations on BSR Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210502](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210502.zip) Discussion on UE feedback enhancements for XR capacity DENSO CORPORATION discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210537](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210537.zip) Discussion on BSR enhancement for XR-specific capacity improvement Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210599](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210599.zip) Discussion on BSR enahancement for timing information in XR LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210621](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210621.zip) Discussion on Feedback enhancements for XR-specific capacity improvements III discussion FS\_NR\_XR\_enh

[R2-2210686](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210686.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, e.g. on CG, how to jointly consider UL and DL traffic, how to allocate multiple TBS, etc.

Including discussion on whether XR traffic would require enhancements to measurement gaps

[R2-2209457](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209457.zip) Scheduling enhancements for capacity improvement Qualcomm Incorporated discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209473](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209473.zip) Discussion on CG enhancements CATT discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209491](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209491.zip) Discussion on scheduling enhancements XR-specific capacity improvements vivo discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209559](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209559.zip) Capacity Enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209592](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209592.zip) Scheduling enhancement for XR capacity MediaTek Inc. discussion Rel-18

[R2-2209647](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209647.zip) Scheduling enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2209673](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209673.zip) Discussing on XR-specific scheduling enhancements Xiaomi Communications discussion

[R2-2209692](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209692.zip) Discussion on scheduling enhancements InterDigital, Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209783](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209783.zip) Considerations of Scheduling Enhancement for XR Apple discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209907](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209907.zip) Scheduling and measurement gap enhancements for XR traffic Intel Corporation discussion Rel-18 FS\_NR\_XR\_enh

[R2-2209940](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209940.zip) Discussion of scheduling enhancement Lenovo discussion Rel-18

[R2-2209991](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209991.zip) Some enhancements on XR scheduling Spreadtrum Communications discussion Rel-18

[R2-2209994](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209994.zip) Enhancement to measurement gap Spreadtrum Communications discussion Rel-18

[R2-2210025](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210025.zip) Discussion on scheduling enhancement OPPO discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210151](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210151.zip) Consideration on scheduler enhancement for XR CMCC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210216](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210216.zip) Considerations on XR specific capacity improvements Sony discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210358](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210358.zip) Scheduling Enhancement for XR Google Inc. discussion

[R2-2210483](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210483.zip) Discussion on CG enhancement Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210541](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210541.zip) Discussion on scheduling enhancement for XR traffic Huawei, HiSilicon discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210600](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210600.zip) Discussion on Scheduling enahancement for XR LG Electronics Inc. discussion Rel-18 FS\_NR\_XR\_enh

[R2-2210604](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210604.zip) Further discussion on DG for XR uplink traffic transmission TCL Communication discussion Rel-18

[R2-2210691](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210691.zip) Discussion on Scheduling enhancements Ericsson discussion Rel-18 FS\_NR\_XR\_enh

## 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.

[R2-2210368](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210368.zip) List of RAN2 Agreements in IoT-NTN MediaTek Inc. report Rel-18

### 8.6.2 Performance Enhancements

#### 8.6.2.1 HARQ enhancements

[R2-2209410](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209410.zip) Discussion on the HARQ disabling in IoT NTN CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2209442](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209442.zip) Discussion on disabling HARQ Feedback in IoT-NTN MediaTek Inc. discussion

[R2-2209666](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209666.zip) Discussion on disabling DL HARQ feedback Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh

[R2-2209717](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209717.zip) Enhancement for UL and DL HARQ processes Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2209750](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209750.zip) Discussion on performance enhancement for IoT NTN Transsion Holdings discussion Rel-18

[R2-2209834](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209834.zip) Further discussion on HARQ enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2210036](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210036.zip) Discussion on disabling of HARQ feedback Xiaomi discussion Rel-18

[R2-2210088](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210088.zip) Discussion on HARQ enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2210152](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210152.zip) Discussion on the HARQ enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh

[R2-2210195](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210195.zip) Disabling HARQ feedback for IoT-NTN Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2210643](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210643.zip) On HARQ enhancements for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh

[R2-2210702](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210702.zip) On HARQ enhancements for IoT NTN Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

[R2-2210761](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210761.zip) R18 IoT NTN performance enhancement Ericsson discussion Rel-18 IoT\_NTN\_enh

#### 8.6.2.2 GNSS operation enhancements

[R2-2209409](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209409.zip) Discussion on the issues of GNSS operation in connected mode CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2209835](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209835.zip) Further discussion on GNSS enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2209966](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209966.zip) Considerations on reducing UE GNSS operations in long connection time Lenovo discussion Rel-18

[R2-2210097](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210097.zip) Discussion on GNSS operation in connected mode OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2210153](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210153.zip) Discussion on the GNSS enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh

[R2-2210406](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210406.zip) Discussion on GNSS operation Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh

[R2-2210440](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210440.zip) GNSS acquisition and reporting for IoT NTN InterDigital discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2210644](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210644.zip) Regarding GNSS operation enhancements for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh

[R2-2210703](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210703.zip) On improved GNSS operation for IoT NTN Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

### 8.6.3 Mobility Enhancements

[R2-2209411](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209411.zip) Discussion on IoT NTN Mobility Enhancements CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2209443](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209443.zip) On Mobility Enhancements in IoT-NTN MediaTek Inc. discussion

[R2-2209580](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209580.zip) Discussion on neighbour cell measurements in IoT NTN Intel Corporation discussion Rel-18 IoT\_NTN\_enh

[R2-2209718](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209718.zip) Connected mode mobility enhancements Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2209719](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209719.zip) RLF detection in earth fixed cell Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2209751](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209751.zip) Discussion on mobility enhancement for IoT NTN Transsion Holdings discussion Rel-18

[R2-2209794](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209794.zip) Neighbour cell measurements before RLF Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2209836](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209836.zip) Further discussion on mobility enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2209967](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209967.zip) NTN-specific CONNECTED neighbour cell measurement for NB-IoT Lenovo discussion Rel-18

[R2-2209968](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209968.zip) On IDLE mobility for IoT NTN Lenovo discussion Rel-18

[R2-2209978](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209978.zip) Discussion on triggering neighbour cell measurement before RLF Spreadtrum Communications discussion Rel-18

[R2-2210074](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210074.zip) On the applicability of mobility enhancements features for IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2210089](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210089.zip) Discussion on mobility enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2210122](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210122.zip) Enhancements on the neighbour cell measurement Xiaomi discussion

[R2-2210154](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210154.zip) Discussion on the mobility enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh

[R2-2210196](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210196.zip) IoT-NTN mobility enhancements Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2210321](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210321.zip) Mobility Enhancement for IoT NTN Samsung R&D Institute UK discussion

[R2-2210372](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210372.zip) Use of Elevation Angle Threshold for IoT NTN Neighbour Cell Measurements SHARP Corporation discussion R2-2208518

[R2-2210407](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210407.zip) Discussion on mobility enhancements Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh

[R2-2210597](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210597.zip) Discussion on Mobility Enhancements of IoT NTN TURKCELL discussion Rel-18

[R2-2210733](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210733.zip) Discussion on Conditional Handover in IoT NTN Ericsson discussion Rel-18 IoT\_NTN\_enh

[R2-2210735](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210735.zip) Discussion on connected mode measurements Ericsson discussion Rel-18 IoT\_NTN\_enh

### 8.6.4 Enhancements to discontinuous coverage

Not treated at this meeting. No contributions expected

## 8.7 NR NTN enhancements

(xx-Core; leading WG: RAN1; REL-18; WID: RP-222654)

Time budget: 1 TU

Tdoc Limitation: 3 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.

[R2-2210766](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210766.zip) R18 WI NR-NTN-enh work plan at RAN1, 2 and 3 THALES Work Plan Rel-18 NR\_NTN\_enh

### 8.7.2 Coverage Enhancements

[R2-2209389](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209389.zip) Discussion on coverage enhancement in NR NTN CAICT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2209406](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209406.zip) Discussion on NTN Coverage Enhancement CATT discussion Rel-18 NR\_NTN\_enh

[R2-2209508](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209508.zip) Discussion on RAN overhead reduction for VoNR support in NTN vivo discussion

[R2-2209709](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209709.zip) Frame aggregation for coverage enhancement Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2209710](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209710.zip) Protocol overhead reduction for coverage enhancement Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2209804](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209804.zip) Consideration on NTN Coverage Enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2209969](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209969.zip) Potential issues for Msg3 repetition in NTN Lenovo discussion Rel-18

[R2-2210033](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210033.zip) Discussion on coverage enhancement for NR NTN Xiaomi discussion Rel-18

[R2-2210285](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210285.zip) Consideration on coverage enhancements ZTE Corporation, Sanechips discussion Rel-18

R2-2210460 Discussion on Coverage Enhancements for NR NTN Hyundai Motor Company discussion Late

[R2-2210566](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210566.zip) Discussion on the L2 header reduction in NTN LG Electronics Inc. discussion NR\_NTN\_enh-Core

[R2-2210645](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210645.zip) Discussion on Coverage Enhancements for NR NTN Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh

[R2-2210685](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210685.zip) Discussion on RAN protocol overhead reduction Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh

[R2-2210758](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210758.zip) R18 NR NTN Coverage enhancements Ericsson discussion Rel-18 NR\_NTN\_enh

### 8.7.3 Network verified UE location

Including the report of [Post119-e][108]

[R2-2209407](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209407.zip) Discussion on UE Location Verification CATT discussion Rel-18 NR\_NTN\_enh

[R2-2209444](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209444.zip) On Network Verified UE Location in NR NTN MediaTek Inc. discussion

[R2-2209509](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209509.zip) Discussion on Network verification of UE location in Rel-18 NR NTN vivo discussion

[R2-2209579](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209579.zip) Discussion on the technical issues of positioning methods in single-satellite NTN Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2209597](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209597.zip) Summary of POST119-e [108] NW verified UE location (Thales) THALES discussion Rel-18

[R2-2209665](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209665.zip) Discussion on the network verfied UE location Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh

[R2-2209793](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209793.zip) Discussion on network verified UE location Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2209984](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209984.zip) Discussion on UE location verify procedure Spreadtrum Communications discussion Rel-18

[R2-2210004](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210004.zip) On NTN NW verified UE location aspects Lenovo discussion Rel-18

[R2-2210096](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210096.zip) Discussion on network verified UE location OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210120](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210120.zip) Discussion on network verified UE location Xiaomi, CAICT discussion

[R2-2210242](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210242.zip) Network Verified UE Location Samsung R&D Institute UK discussion Rel-18

[R2-2210286](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210286.zip) Consideration on NW verified UE location ZTE Corporation, Sanechips discussion Rel-18

[R2-2210336](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210336.zip) On network verified position Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210443](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210443.zip) Discussion on Network Verified UE Location NTT DOCOMO INC. discussion Rel-18

[R2-2210509](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210509.zip) Considerations on UE Location Verification via Network CMCC discussion Rel-18 NR\_NTN\_enh

[R2-2210709](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210709.zip) UE location verification in NTN Deutsche Telekom, Huawei, HiSilicon discussion Rel-18

[R2-2210757](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210757.zip) R18 NR NTN Network verified UE location Ericsson discussion Rel-18 NR\_NTN\_enh

### 8.7.4 NTN-TN and NTN-NTN mobility and service continuity enhancements

[R2-2209390](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209390.zip) Discussion on NTN-NTN mobility CAICT discussion Rel-16 NR\_NTN\_enh-Core

[R2-2209408](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209408.zip) Discussion on NTN Mobility Enhancements CATT discussion Rel-18 NR\_NTN\_enh

[R2-2209445](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209445.zip) Handover Enhancement in LEO NTN with Earth-moving Cells MediaTek Inc. discussion

[R2-2209510](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209510.zip) Discussion on mobility and service continuity enhancement vivo discussion

[R2-2209577](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209577.zip) Discussion on NTN handover enhancements Intel Corporation discussion Rel-18 NR\_NTN\_enh R2-2207272

[R2-2209578](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209578.zip) Discussion on NTN cell reselection enhancements Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2209711](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209711.zip) Signaling and congestion reduction in satellite switch Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2209733](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209733.zip) Discussion of NTN-TN and NTN-NTN mobility China Telecom discussion Rel-18

[R2-2209752](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209752.zip) Discussion on NTN-NTN CONNECTED mobility and service continuity enhancements Transsion Holdings discussion Rel-18

[R2-2209753](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209753.zip) Discussion on NTN-TN IDLE and INACTIVATE mobility and service continuity enhancements Transsion Holdings discussion Rel-18

[R2-2209805](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209805.zip) NTN Mobility Enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2209855](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209855.zip) Discussion on RACH-less handover ASUSTeK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2209921](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209921.zip) NTN handover enhancements LG Electronics Inc. discussion Rel-18

[R2-2209970](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209970.zip) Further considerations on IDLE/INACTIVE mobility Lenovo discussion Rel-18

[R2-2209985](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209985.zip) Some enhancements in NTN handover Spreadtrum Communications discussion Rel-18

[R2-2210045](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210045.zip) Discussion on assistance information of cell reselection for NTN-TN mobility ITRI discussion NR\_NTN\_enh

[R2-2210090](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210090.zip) Discussion on mobility enhancements for idle and inactive Ues OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210095](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210095.zip) Discussion on NTN handover enhancements OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210121](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210121.zip) Cell reselection enhancements and handover signaling overhead reduction Xiaomi, CAICT discussion

[R2-2210159](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210159.zip) Cell reselection enhancements CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210160](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210160.zip) Mobility enhancements for connected mode CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210198](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210198.zip) NR NTN connected mode mobility enhancement NEC Telecom MODUS Ltd. discussion Rel-18

[R2-2210217](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210217.zip) NTN-TN mobility enhancements Sony discussion Rel-18 NR\_NTN\_enh

[R2-2210218](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210218.zip) Signaling overhead reduction during NTN-NTN HOs Sony discussion Rel-18 NR\_NTN\_enh

[R2-2210338](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210338.zip) NTN-NTN handover enhancement for RRC\_CONNECTED UEs NEC Telecom MODUS Ltd. discussion R2-2207297

[R2-2210353](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210353.zip) Further view on Idle- and Connected-mode NTN mobility in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210405](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210405.zip) Discussion on NTN mobility enhancements Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh

[R2-2210438](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210438.zip) RRC Idle/Inactive mobility enhancements InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210439](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210439.zip) RRC Connected mobility enhancements InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210467](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210467.zip) NTN mobility enhancements in connected mode Samsung Research America discussion Rel-18 NR\_NTN\_solutions-Core

[R2-2210468](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210468.zip) NTN cell reselection enhancements Samsung Research America discussion Rel-18 NR\_NTN\_solutions-Core

[R2-2210479](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210479.zip) Discussion on NTN mobility Sharp discussion Rel-18 NR\_NTN\_enh-Core

[R2-2210589](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210589.zip) Discussion on NTN-TN mobility and NTN-NTN mobility ITL discussion Rel-18

[R2-2210598](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210598.zip) Discussion on mobility and service continuity enhancements for NR NTN Turkcell, Deutsche Telekom discussion Rel-18

[R2-2210629](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210629.zip) Further discussion on NTN-TN and NTN-NTN mobility NTT DOCOMO, INC. discussion Rel-18

[R2-2210668](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210668.zip) Discussion on NTN-NTN and NTN-TN mobility ZTE corporation, Sanechips discussion Rel-18

[R2-2210732](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210732.zip) R18 NR NTN Mobility enhancements Ericsson discussion Rel-18 NR\_NTN\_enh

[R2-2210737](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210737.zip) Discussion on idle mode aspects for NTN LG Electronics Inc. discussion Rel-18

R2-2210767 Discussion on cell reselection enhancements for RRC\_IDLE/INACTIVE UEs to reduce UE power consumption PANASONIC discussion Withdrawn

[R2-2210769](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210769.zip) Network-driven NTN-NTN Mobility Considerations Lockheed Martin discussion Rel-18

## 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

[R2-2209307](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209307.zip) LS response to 3GPP RAN on Location Services for Drones (LI(21)P61035r1; contact: ETSI) ETSI TC LI LS in To:RAN, RAN2 Cc:SA3LI

[R2-2210354](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210354.zip) Uncrewed Aerial Vehicles in Rel-18 - updated workplan Nokia, Nokia Shanghai Bell Work Plan 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.

[R2-2209368](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209368.zip) Conditional HO in NR UAV CATT discussion Rel-18 NR\_UAV-Core

[R2-2209418](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209418.zip) Measurement Enhancement for UAV OPPO discussion Rel-18

[R2-2209446](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209446.zip) Measurement and reporting enhancements Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2209532](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209532.zip) Measurement reports Ericsson discussion Rel-18

[R2-2209582](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209582.zip) UAV support for NR Intel Corporation discussion Rel-18 NR\_UAV-Core

[R2-2209754](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209754.zip) Considerations on Measurement Reports Enhancements NEC Europe Ltd discussion Rel-18 NR\_UAV-Core

[R2-2209795](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209795.zip) User consent on UAV location reporting Apple discussion Rel-18 NR\_UAV

[R2-2209934](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209934.zip) Measurement enhancement for NR UAV Lenovo discussion Rel-18

[R2-2210161](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210161.zip) Measurement Reporting for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2210175](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210175.zip) On measurement reporting enhancements for NR UAV ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2210219](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210219.zip) Considerations about UAV mobility and user consent Sony discussion Rel-18 NR\_UAV

[R2-2210355](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210355.zip) On measurements and measurement reporting enhancements for Rel-18 UAVs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2210356](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210356.zip) On measurement reporting based on a configured number of cells triggering – evaluation results Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2210435](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210435.zip) Discussion on measurement reporting for NR UAV Sharp discussion

[R2-2210441](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210441.zip) Measurement reporting for UAV InterDigital discussion Rel-18 NR\_UAV-Core

[R2-2210489](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210489.zip) Discussion on measurement reporting for NR UAV Xiaomi discussion Rel-18 NR\_UAV-Core

[R2-2210504](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210504.zip) Potential issues and enhancements for UAV measurements Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2210535](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210535.zip) Consideration on flight path reporting of UAV for NR DENSO CORPORATION discussion NR\_UAV-Core

[R2-2210601](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210601.zip) Discussion on measurement reporting enhancement for NR UAV vivo discussion Rel-18 NR\_UAV

[R2-2210602](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210602.zip) Discussion on flight path reporting for NR UAV vivo discussion Rel-18 NR\_UAV

[R2-2210623](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210623.zip) Further discussion on NR support for UAV NTT DOCOMO, INC. discussion Rel-18

[R2-2210648](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210648.zip) Measurement Report Enhancement LG Electronics Finland discussion Rel-18

[R2-2210652](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210652.zip) Flight path information report enhancement LG Electronics Finland discussion Rel-18

[R2-2210675](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210675.zip) Draft LS on Scaling the RRM Parameters for UAV UE CMCC LS out Rel-18 NR\_UAV-Core To:RAN4,RAN1

[R2-2210753](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210753.zip) Discussion on flight path reporting and user consent for location reporting Samsung discussion Rel-18 NR\_UAV-Core

### 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.

[R2-2209369](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209369.zip) Subscription-based Aerial-UE Identification for NR CATT discussion Rel-18 NR\_UAV-Core

[R2-2209419](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209419.zip) Subscription-based aerial-UE identification OPPO discussion Rel-18 R2-2207234

[R2-2209447](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209447.zip) Enhancements for subscription-based aerial-UE identification Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2209755](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209755.zip) Considerations on Subscription-based Identification for NR UAV NEC Europe Ltd discussion Rel-18 NR\_UAV-Core

[R2-2210162](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210162.zip) Subscription-based aerial-UE identification for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2210176](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210176.zip) Discussion on subscription based identification for NR UAV ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2210505](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210505.zip) Consideration on subscription-based UAV identification Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2210739](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210739.zip) Discussion on subscription-based aerial-UE identification for NR UAV Samsung Electronics Co., Ltd discussion Rel-18 NR\_UAV-Core R2-2208630

### 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

[R2-2210781](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210781.zip) OG0022\_LS-MITRE-Engenuity Open Generation DAA input\_PC5\_DAA\_RID\_PRS OG0022 (contact: vivo)                MITRE Engenuity Open Generation 5G Consortium

[R2-2209531](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209531.zip) On broadcasting UAV identification Ericsson discussion Rel-18

[R2-2209923](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209923.zip) UAV Identity broadcast and Identification Beijing Xiaomi Mobile Software discussion Rel-18 NR\_UAV-Core

[R2-2209935](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209935.zip) Discussion on broadcasting remote id for UAV Lenovo discussion Rel-18

[R2-2210220](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210220.zip) UAV identification broadcast Sony discussion Rel-18 NR\_UAV

## 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.

[R2-2209357](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209357.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.

[R2-2209370](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209370.zip) Discussion on U2U Relay Discovery and (Re)selection CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209499](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209499.zip) Discussion on NR sidelink UE to UE relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209518](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209518.zip) Relay discovery and (re)selection for UE-to-UE relay MediaTek Inc. discussion NR\_SL\_relay\_enh-Core

[R2-2209519](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209519.zip) Connection management and procedures for L2 UE-to-UE relay MediaTek Inc. discussion NR\_SL\_relay\_enh-Core

[R2-2209583](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209583.zip) Discovery and reselection with UE-to-UE relaying Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2209619](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209619.zip) Discussion on U2U relay communication ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209731](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209731.zip) Discussion on UE-to-UE relay China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209769](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209769.zip) Discussion on U2U Relay Discovery and Relay (Re)-selection Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209819](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209819.zip) Discussion on the common L2/L3 parts for U2U relaying vivo discussion

[R2-2209839](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209839.zip) Discovery and Relay (re-)selection for UE-to-UE relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2209922](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209922.zip) Further considerations on U2U relay discovery and relay selection Beijing Xiaomi Mobile Software discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209972](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209972.zip) Discussion on relay discovery and (re)selection for U2U relay Spreadtrum Communications discussion Rel-18

[R2-2210048](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210048.zip) U2U sidelink relay Samsung R&D Institute UK discussion R2-2207729

[R2-2210136](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210136.zip) Discussion on U2U relay CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210221](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210221.zip) UE-to-UE relay (re)selection Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210232](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210232.zip) Basic aspects for U2U Relay work Lenovo discussion NR\_SL\_relay\_enh-Core R2-2207336

[R2-2210247](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210247.zip) Design aspects of relay selection and reselection for U2U relay Ericsson discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210248](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210248.zip) Discussion on U2U coverage scenarios and RRC states Ericsson, vivo, InterDigital Inc discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210251](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210251.zip) Discussion on SL UE-to-UE Relay Discovery and (Re-)Selection Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210263](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210263.zip) Discovery and Relay Selection for UE-to-UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210276](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210276.zip) Initial considerations for U2U relay discovery and (re)selection Kyocera discussion

[R2-2210277](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210277.zip) Initial considerations for U2U L2 relay CP operations Kyocera discussion

[R2-2210339](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210339.zip) On L2 and L3 U2U relays Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay\_enh-Core

[R2-2210475](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210475.zip) UE-to-UE relay discovery and (re)selection Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210498](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210498.zip) Discussion on UE-to-UE relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210580](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210580.zip) Relay selection and connection establishment LG Electronics France discussion Rel-18

### 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.

[R2-2209371](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209371.zip) Consideration on Service Continuity Enhancements for L2 U2N Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209460](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209460.zip) Considerations on Service Continuity Enhancement NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209498](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209498.zip) Discussion on further enhancement of service continuity OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209520](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209520.zip) Inter-gNB path switch to Relay UE in RRC\_Idle, RRC\_Inactive MediaTek Inc. discussion NR\_SL\_relay\_enh-Core

[R2-2209584](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209584.zip) Service continuity enhancements for L2 U2N relay Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2209642](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209642.zip) Inter-gNB Aspects of Service Continuity for Layer-2 UE-to-Network Relays Ericsson España S.A. discussion Rel-18

[R2-2209730](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209730.zip) Service continuity enhancements for L2 U2N relay China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209770](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209770.zip) Discussion on Service continuity enhancement of L2 U2N relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209820](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209820.zip) On service continuity enhancement for L2 U2N relay vivo discussion

[R2-2209841](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209841.zip) Service continuity for UE-to-Network relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2209882](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209882.zip) Discussion on service continuity enhancement Xiaomi discussion

[R2-2209901](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209901.zip) Service continuity enhancement for L2 U2N relay ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209943](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209943.zip) Service continuity in L2 U2N relay case Lenovo discussion Rel-18

[R2-2209975](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209975.zip) Service continuity enhancements support for L2 U2N relay Spreadtrum Communications discussion Rel-18

[R2-2210014](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210014.zip) Service continuity enhancements for L2 U2N relay Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210101](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210101.zip) Discussion on service continuity enhancement for Inter-gNB path switching of L2 U2N relay Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210102](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210102.zip) Discussion on service continuity enhancement for Inter-gNB path switching via relay UE in RRC\_IDLE/INACTIVE state Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210112](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210112.zip) Discussion on Service Continuity Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210137](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210137.zip) Service continuity on U2N relay CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210223](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210223.zip) Service continuity enhancements for UE sidelink relay Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210264](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210264.zip) Open Issues on Service Continuity for Rel18 InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core Withdrawn

[R2-2210278](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210278.zip) L2 U2N inter-gNB service continuity Kyocera discussion

[R2-2210442](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210442.zip) Open Issues on Service Continuity for Rel18 InterDigital France R&D, SAS discussion

[R2-2210474](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210474.zip) Service Continuity Enhancements for Layer-2 U2N Relay Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210578](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210578.zip) Service continuity enhancements for L2 U2N relay LG Electronics France discussion Rel-18

### 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).

[R2-2209372](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209372.zip) Discussion on Multi-path for Scenario 1 CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209373](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209373.zip) Discussion on the Details of Scenario 2 CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209375](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209375.zip) Discussion on multi-path Relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209461](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209461.zip) Considerations on Multipath of Sidelink Relay NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209585](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209585.zip) Discussion on Multi-path Relaying Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2209617](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209617.zip) Further discussion on the multi-path relaying ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209618](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209618.zip) Design consideration on the UE aggregation ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209681](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209681.zip) Multipath support for remote UE MediaTek Inc. discussion Rel-18

[R2-2209682](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209682.zip) Multipath Relaying for Scenario-1 and Scenario-2 Ericsson España S.A. discussion Rel-18

[R2-2209732](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209732.zip) Discussion on RLF handling for multi-path relaying China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209749](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209749.zip) Support of Multi-path Relaying Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay\_enh-Core

[R2-2209771](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209771.zip) Discussion on multi-path relaying support Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209821](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209821.zip) Multi-path UE aggregation on PC5 and Ideal-link vivo discussion

[R2-2209840](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209840.zip) Discussion on multi-path relay for Scenario 1 and Scenario 2 Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Perf

[R2-2209881](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209881.zip) Discussion on multi-path Xiaomi discussion

[R2-2209944](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209944.zip) Discussion on Multi-path relaying Lenovo discussion Rel-18

[R2-2209945](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209945.zip) Second path establishment for Multi-Path Lenovo discussion Rel-18

[R2-2209976](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209976.zip) Discussion on multi-path relaying Spreadtrum Communications discussion Rel-18

[R2-2210027](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210027.zip) Report of [Post119-e][408][Relay] Path operations in multi-path relaying LG Electronics France report Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210031](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210031.zip) Multi-path relaying for NR sidelink relay enhancements LG Electronics France discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210063](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210063.zip) Discussion on primary path for CP in sidelink relay enhancement Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210064](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210064.zip) Discussion on key issues for multipath in sidelink relay enhancement Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210138](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210138.zip) Primary path for CP in multi-path CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210139](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210139.zip) Consideration on UE aggregation CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210224](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210224.zip) Multi-path relaying discussion Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210265](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210265.zip) Architecture Assumptions for Multi-path InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210266](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210266.zip) SRB and DRB Configurations for Multi-path InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core Withdrawn

[R2-2210425](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210425.zip) SRB and DRB Configurations for Multi-path InterDigital France R&D, SAS discussion

[R2-2210476](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210476.zip) discussion on multi-path bearer Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210477](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210477.zip) resource allocation for multi-path relaying Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210497](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210497.zip) Discussion on Rel-18 multi-path via SL relay and UE aggregation Huawei, HiSilicon discussion Rel-18 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.

[R2-2209376](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209376.zip) Discussion on SL-DRX for Relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209774](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209774.zip) Discussion on SL DRX for L2 Relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2209822](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209822.zip) Discussion on SL DRX for L2 U2N Remote UE vivo discussion

[R2-2209842](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209842.zip) SL DRX for L2 U2N relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2209883](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209883.zip) Discussion on SL DRX in U2N relay Xiaomi discussion

[R2-2210222](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210222.zip) Discussions on Sidelink Relay DRX Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2210499](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210499.zip) On sidelink DRX for L2 U2N relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2210579](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210579.zip) SL DRX for L2 U2N relay LG Electronics France discussion Rel-18

## 8.10 IDC enhancements for NR and MR-DC

(NR\_IDC\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221281)

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

No Treatment at R2 119bis

## 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.

[R2-2209356](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209356.zip) LS on FS\_5MBS\_Ph2 progress (S2-2207470; contact: Huawei) SA2 LS in Rel-18 FS\_5MBS\_Ph2, NR\_MBS\_enh To:RAN2, RAN3 Cc:RAN1

[R2-2209664](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209664.zip) Consideration on replying to the SA2 LS on MBS progress Huawei, HiSilicon discussion Rel-18 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:

- how is PTM configuration delivered to the UE, how is the configuration updated (e.g. due to UE mobility), what does the configuration contain (e.g. compared to Rel-17 PTM configuration), mobility of the UE etc.

- service continuity during RRC states changes, how does the network indicate the UE to switch RRC state for multicast reception, notifications/group paging enhancements due to session activation/deactivation or due to Inactive mutlicast reception enable/disable by the network etc.

Report of [Post119-e][610][eMBS] PTM configuration for INACTIVE (CATT). The aspects covered by [Post119-e][610] e-mail discussion should not be repeated in the Tdocs

[R2-2209412](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209412.zip) Supporting Multicast Reception in RRC\_INACTIVE vivo discussion Rel-18 NR\_MBS\_enh-Core R2-2207227

[R2-2209449](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209449.zip) Multicast reception by UEs in RRC\_INACTIVE state Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209458](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209458.zip) Discussion on multicast reception in RRC\_INACTIVE state TD Tech Ltd, Chengdu TD Tech discussion Rel-18

[R2-2209513](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209513.zip) Discussion on multicast reception in RRC\_INACTIVE state OPPO discussion Rel-18 NR\_MBS\_enh

[R2-2209514](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209514.zip) LS on multicast reception in RRC\_INACTIVE OPPO LS out Rel-18 NR\_MBS\_enh To:RAN1

[R2-2209533](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209533.zip) MBS pre-configuration and PTM configuration in RRC\_INACTIVE state CANON Research Centre France discussion Rel-18

[R2-2209587](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209587.zip) Multicast Reception in RRC\_INACTIVE Samsung discussion Rel-18

[R2-2209613](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209613.zip) Session state change for UEs receiving Multicast in RRC\_INACTIVE state TCL Communication Ltd. discussion

[R2-2209614](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209614.zip) PTM configuration for UEs receiving Multicast in RRC\_INACTIVE state TCL Communication Ltd. discussion

[R2-2209623](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209623.zip) Discussion on multicast reception in RRC\_INACTIVE NEC Europe Ltd discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209662](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209662.zip) Multicast reception for RRC\_INACTIVE Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209744](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209744.zip) Multicast reception in RRC\_INACTIVE ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209806](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209806.zip) Multicast Reception in INACTIVE State Apple discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209876](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209876.zip) Discussion on multicast reception in RRC INACTIVE MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209919](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209919.zip) Multicast reception in RRC\_INACTIVE LG Electronics Inc. discussion Rel-18

[R2-2209946](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209946.zip) PTM configuration for multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2209947](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209947.zip) Mobility and state transition for multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2209988](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209988.zip) Discussion on Multicast Reception in RRC\_INACTIVE Spreadtrum Communications discussion Rel-18

[R2-2210026](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210026.zip) Considerations on security issues for multicast MCCH Beijing Xiaomi Software Tech discussion Rel-18

[R2-2210066](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210066.zip) Discussion on multicast reception in RRC\_INACTIVE CATT, CBN discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210068](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210068.zip) Report of [Post119-e][610][eMBS] PTM configuration for INACTIVE (CATT) CATT discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210114](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210114.zip) Discussion on supporting group scheduling for RRC\_INACTIVE UEs FGI discussion

[R2-2210132](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210132.zip) Multicast reception in RRC\_INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210146](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210146.zip) Discussion on multicast reception in RRC\_INACTIVE CMCC discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210384](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210384.zip) Multicast reception in RRC\_INACTIVE Intel Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210423](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210423.zip) PTM Configuration for RRC\_INACTIVE Sharp discussion

[R2-2210424](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210424.zip) Paging message for Multicast session received in RRC\_INACTIVE Sharp discussion

[R2-2210428](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210428.zip) Details of multicast reception in RRC INACTIVE Kyocera discussion Rel-18

[R2-2210453](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210453.zip) Discussion on Mobility during Multicast Reception in RRC Inactive State TCL Communication Ltd. discussion Rel-18

[R2-2210458](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210458.zip) Discussion on RAN based Notification Area for Multicast Mobility in Inactive State TCL Communication Ltd. discussion Rel-18 R2-2207191

[R2-2210557](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210557.zip) Provision of reliable MBS in RRC\_INACTIVE InterDigital, Inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210715](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210715.zip) Service availability for mission critical UEs during RAN congestion Ericsson 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]

[R2-2209413](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209413.zip) Supporting Shared Processing for MBS Broadcast and Unicast vivo discussion Rel-18 NR\_MBS\_enh-Core R2-2207228

[R2-2209448](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209448.zip) Shared processing for MBS broadcast and unicast reception Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core R2-2208097

[R2-2209459](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209459.zip) CFR configuration for multicast reception in RRC\_INACTIVE state TD Tech Ltd, Chengdu TD Tech discussion Rel-18

[R2-2209624](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209624.zip) Discussion on shared process for unicast and broadcast reception NEC Europe Ltd discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209663](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209663.zip) Discussion on shared processing for MBS broadcast and Unicast reception Huawei, CBN, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209745](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209745.zip) On signaling framework for shared processing ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209807](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209807.zip) Sharing processing of MBS broadcast and unicast reception Apple discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209867](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209867.zip) Shared Processing for MBS broadcast and unicast reception Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2209877](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209877.zip) Discussion on broadcast coexistence and signaling enhancement MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core R2-2207567

[R2-2209920](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209920.zip) Shared processing for broadcast and unicast LG Electronics Inc. discussion Rel-18

[R2-2209989](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209989.zip) Discussion on shared processing for MBS broadcast and Unicast Reception Spreadtrum Communications discussion Rel-18

[R2-2210054](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210054.zip) Discussion on shared processing for MBS broadcast and unicast reception Xiaomi discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210067](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210067.zip) Discussions on shared processing for MBS broadcast and unicast reception CATT, CBN discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210147](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210147.zip) Discussion on shared processing for broadcast and unicast reception CMCC discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210385](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210385.zip) Shared processing for simultaneous MBS broadcast and Unicast reception Intel Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210427](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210427.zip) Shared processing for inter-PLMN MBS broadcast reception Kyocera discussion Rel-18 R2-2208290

[R2-2210610](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210610.zip) Uu Signalling Enhancements for MBS Samsung discussion Rel-18 NR\_MBS\_enh-Core

[R2-2210716](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210716.zip) MBS broadcast and unicast reception with shared resources Ericsson discussion Rel-18 NR\_MBS\_enh-Core R2-2208092

## 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

LS in

[R2-2209350](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209350.zip) LS on FS\_VMR solutions review (S2-2207070; contact: Qualcomm) SA2 LS in Rel-18 FS\_VMR To:RAN3, RAN2 Cc:RAN4, RAN Late

Moved from 8.18

Online first: What should RAN2 attempt to reply to, if anything? TA handling?

- Ericsson think maybe TA related questions could be R2 related fand think we should avoid conflict with R3.

- HW wonder if we need to reply from this meeting.

- QC think we can attempt reply now.

* Noted
* We attempt to reply to RAN2 topics (if any), go offline.
* [AT119bis-e][020][eIAB] Reply LS on FS\_VMR solutions review (Qualcomm)

Scope: We attempt to reply to RAN2 topics (if any).

Intended outcome: Report if needed, Agreeable LS out.

Deadline: CB W2 Wed

R2-2211056 [AT119bis-e][020][eIAB] Reply LS on FS\_VMR solutions review Qualcomm

* Noted

R2-2211022 [DRAFT] Reply LS on FS\_VMR solutions review Qualcomm LS out

- Chair think that the following is RAN2 understanding, but is not really required by RAN2 TS (but should be ok to list): The mobile IAB-node’s NCGI is changed during inter-donor migration of the IAB-DU.

* LS out is approved, final version in R2-2211062

[R2-2209615](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209615.zip) Discussion on LS on VMR solutions from SA2 ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

* [020] noted

Workplan

[R2-2209702](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209702.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]

[R2-2209522](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209522.zip) Mobile IAB mobility enhancement Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

DISCUSSION 1 (mobile-IAB-node to network indication)

- LG think 1b is baseline, and think regarding 1c indeed existing mobility state can be reused. Nothing new is needed.

- Ericsson has similar view as LG but think existing signalling could need to be complemented, for the purpose of predictive mobility.

- Xiaomi agrees, think not much new is needed.

- IDT think type could be part of capability, think mobility state need more discussion. Think that the mobility state is more dynamic than indicated in these proposals, think resume complete and setup complete is not sufficient. Chair think that for simple mechanism like mobility state, the network is assumed to be counting cell-changes in connected.

- ZTE think type is needed, think location speed can be send with legacy signalling.

- HW think that whether we need early indication or not depend on SA2 conclusion whether mobile IAB has specific CN.

* UE capability signalling is the baseline to let CU know that the MT is a “mobile-IAB” type. FFS early mobile-IAB indication, e.g. in Msg5.
* Regarding moving status/mode indication, R2 observes that legacy reporting of mobility state (e.g. *mobilityState-r16*) could be reused, and maybe also current location reporting from the UE. FFS whether any of this need to be enhanced or complemented, e.g. for the potential purpose of predictive mobility.

DISCUSSION 2 (network to mobile-IAB-node indication)

- Multiple comments: Whether a network to mobile IAB node indication is needed could depend on whether a Mobile IAB node could/should camp on / connect to a normal IAB-capable cell.

* FFS if to Introduce that stationary network broadcasts indication of “supporting mobile-IAB” (into intended for the Mobile IAB MT)

DISCUSSION 3 & 4 (mobile-IAB-Node to UE indications and UE mobility enhancements).

- Nokia think legacy users need to be able to access, so this contradicts WI statement. HW indicate that this is for UE to prioritize, not access control.

- AT&T think it is useful that UE can know more quickly whether it is on-board.

- IDT think it is useful to optimize measurements, ping-pong, etc.

- NEC think that speed and location may change dynamically and think such info may be out of date when transmitted and think such solution should not be considered. Support proposal 3b.

- ZTE think a bcast indication is needed, to reduce measurement etc, think subscription info etc is needed as onboard indication.

- Apple also think this indication is useful, e.g. for cell reselection.

- QC think that 4c can determine that it is on-board only if there is an indication.

- Chair: a number of comments on Torhu on “on-board”.

- Terminology: Chair think that we can use the “on-board” notation for the sake of discussion, with the loose meaning that a UE is “on-board” when it is suitable for the UE to use a mobile IAB cell. Likely we will not define a state etc with this name, maybe it doesn’t exactly mean on-board.

- TMO don’t want to support any enhancements, as the most important case is for existing UEs, and those UEs shall be IAB-capable. AT&T think there are cases when this is useful and think that at some point in time there will be a majority of UEs Rel-18 and later, and it would also useful for public safety UEs. TMO think only public safety UEs then would IAB capable.

- Chair: The TMO objection to impact UEs and the related assumption that legacy UEs is the most important case is noted and can be taken into account when we decide. There is significant support to make enhancements for better performance for new UEs. On the details there seems to be a number of diverging opinions. In order to make decisions, we need to explore the proposals, to see it there are any enhancements that could be agreeable.

* RAN2 confirms that Mobile IAB need to work with legacy UEs.
* RAN2 observes that a UE could potentially consider itself on-board of a mobile-IAB cell, if the UE camps on/connects to a mobile IAB cell during a long period (i.e. the UE then need to know that this is such a cell). FFS the time. FFS if this is needed.

Offline: Outline what would/could be a typical configuration and cell reselection behaviour for legacy UEs. Clarify the potential enhancements on the table for enhanced UEs.

* [AT119bis-e][021][eIAB] Enhancements for Idle Inactive UE (Huawei)

Scope: Idle Inactive UEs. Make some assumptions on typical configuration and cell reselection behaviour for legacy UEs, and potential performance issues, reasonable configurations / scenarios with issues etc. List the potential enhancements proposals on the table for enhanced UEs and for such proposals clarify what is the target performance characteristic to enhance and target scenario (if any). Proponents assumed to be initially active. In a second round, Collect evaluation comments (e.g. importance, feasibility, complexity, pros-cons) for the different proposals, and whether some proposal seems unacceptable.

Intended outcome: Report, for online CB, for discussion on exclusion / keep on the table / agreement (if possible) for either issues or solution proposals or both.

Deadline: CB W2 Wed

CLOSED

R2-2211021 Report of [AT119bis-e][021][eIAB] Enhancements for Idle Inactive UE Huawei, HiSilicon

DISCUSSION

P2, 3, 5

- Ericsson think that enhancements can be done but also current funcitonallity may work. If we enhance, how can we determine that the UE is on-board, can we leave this to UE impl completely?

- AT&T wonder if P5 can be part of migration.

- Huawei think the UE need to know this is a mobile cell in any case, i.e. need to bcast an indication, even if details left to UE implementation. Intel agrees that indication is needed, but think it is very hard to specify UE behaviours to determine if the UE is onboard.

- Intel think that P5 is useful for other scenarios as well.

- LG is fine with P2 as is. Think details can be left to UE impl.

- P3: Ericsson think that moving status indication can be used for predictive mobility. Chair wonder if predictive mobility is not mainly for the IAB MT mobility?

- P3: Xiaomi think moving status is not needed. Vivo QC ZTE agrees, HW reports support is 50/50

- Chair: don’t capture moving status indication for now, can still discuss it.

- Xiaomi think most is UE impl, and we need to keep this simple, there are many scenarios. Nokia agrees.

- Samsung and Kyocera think we shouldn’t have any enahnceemnt, legacy mechanisms work fine. Not much justification.

- Chair: there is quite strong support to have at least something. Lets make an assumption, work on that and if it seems to not be needed in the end we can revert.

P4

- Ericsson think that SA2 are discussing a solution, may need to wait for SA2. AT&T agrees with Ericsson, and with a there might be a case for DU that is shutdown to prevent UEs to use it.

* RAN2 assume below for the UEs working in the mobile IAB cell (may be obvious):

Assumption 1: From the NW perspective of mobile-IAB cell, the principle of setting the legacy parameters (including cell (re)selection, cell reservations and access restrictions) does not change, compared to the legacy IAB cell.

Assumption 2: No spec impact to legacy UEs behaviors.

Assumption 3: Any R18 newly broadcasted info of mobile-IAB cell (if agreed) does not forbid/control the access of legacy UEs.

Assumption 4: Non-enhanced UEs (including legacy UEs and R18 UEs not supporting the enhancement) just ignore the R18 newly broadcasted info of mobile-IAB cell (if agreed).

* RAN2 assumption: For the mobile IAB cell broadcasting info:

1 bit mobile-IAB cell type indication is introduced, to assist mobility in Idle/Inactive mode for Rel-18 UEs (FFS if to assist UE to know it is onboard, if this need to be known)

FFS how this is used (might be implementation specific).

* RAN2 has from the Mobile IAB WI perspective not identified any modifications to prevent the surrounding UE from accessing the mobile IAB-node, but believes that SA2 may be working on Rel-18 solutions that may be applicable (wait for SA2)

Group Handover

[R2-2209703](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209703.zip) Enhancements for IAB-node mobility Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

* Noted

From the HW tdoc above, P6a is considered, proposing: To support the UE’s CHO for full migration, RAN2 to first ask RAN3 on the supporting of target F1AP setup before MT switching to target CU.

From the QC tdoc, The following options O1 O2 O3 are considered:

*1) message withholding by the logical source IAB-DU with conditional delivery, e.g., upon on MT migration,*

*2) conditional execution by the UE based on, e.g., a broadcast indication such as SIB indication of service time or DCI indication of MT-migration, (includes CHO with new trigger).*

*3) legacy CHO (with implementation specific behaviour, e.g. using source-cell power down or target cell power up triggering the actual HO)*

DISCUSSION

- AT&T wonder for QC option 3 if this is possible. QC think that some options creates signalling storm, but any of the 3 options could work. O3 can apply to R16 and R17 UEs, but not R15 UEs.

- LG think that support of legacy is important, and think O3 could work well, and think measurement configuration could be optimized for a fast UE reaction.

- Ericsson think this may be for MT or UE. Think that for the Huawei proposal think that F1 relocation and MT HO doesn’t need to be simultaneous. Ericsson think R3 need to clarify whether F1 relocation is always needed for MT HO. Legacy CHO seems applicable.

- QC think that R3 already decided that F1AP is setup beforehand (at least for dual DU approach) as they has determined that Dual DU is applicable. HW think that R3 didn’t agree yet, but likely they may, so maybe no need to send LS.

- Intel agrees with HW that DU need to be setup first, as CHO requires early preparation.

- Apple has same view about QC due to R3 decision, think we can discuss CHO enhancements, not sure that O3 can work.

- Samsung think we need more info about the full migration, e.g. if they can coexist or if they will be turned on/off with hard switch. QC think we should assume that they co-exist for some time, but think we can later look at the case when they don’t co-exist. Huawei agrees.

- Nokia think that O3 would cause signalling storm. Think CHO is not important, and think O2 shall not be considered, is not needed. Nokia think we should stick with only O1.

- HW wonder if O3 is really legacy, with the requirement to e.g. power down a cell.

* RAN2 assumes that O1 and O3 above could work, and FFS if O2 above (new trigger etc) is needed.

Chair: No need found to ask R3 about details for now.

Chair Comment on Rach-less: think this is more RAN2 internal and is also an optimization not possible for legacy UEs, so we don’t need to prioritize this right now (can wait).

[R2-2209763](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209763.zip) Mobility enhancement in mobile IAB Apple discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2209616](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209616.zip) Discussion on mobility enhancement for mobile IAB ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2209640](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209640.zip) Mobility Enhancement of mobile IAB-node and served UEs Intel Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2209699](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209699.zip) Mobility enhancements for group mobility AT&T discussion

[R2-2209953](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209953.zip) Mobility enhancements for mobile IAB-node and its served UE Lenovo discussion Rel-18

[R2-2209997](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209997.zip) Discussion on mobility enhancements for mobile IAB CANON Research Centre France discussion Rel-18 NR\_mobile\_IAB

[R2-2210208](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210208.zip) Mobility enhancement for mobile IAB Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2210272](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210272.zip) RAN impacts due to IAB-node mobility Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

=> Revised in [R2-2210778](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210778.zip)

[R2-2210778](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210778.zip) RAN impacts due to IAB-node mobility Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2210327](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210327.zip) Mobility enhancements for mIAB node Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2210387](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210387.zip) Discussion on mobile IAB open issues vivo discussion Rel-18

[R2-2210429](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210429.zip) Mobility enhancements for mobile IAB Kyocera discussion Rel-18

[R2-2210447](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210447.zip) Scenarios for consideration in mIAB cell selection and reselection Beijing Xiaomi Mobile Software discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2210522](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210522.zip) Discussion on the enhancement of IAB node mobility Samsung R&D Institute UK discussion

[R2-2210548](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210548.zip) IAB node mobility state and UE measurements InterDigital, Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2210562](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210562.zip) Handover and cell reselection enhancements for on-board UE mobility LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2210577](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210577.zip) Dynamic PCI change for mobile IAB InterDigital, Inc. discussion Rel-18 NR\_mobile\_IAB-Core

### 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].

[R2-2210109](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210109.zip) Discussion on UE handover during IAB-node mobility Fujitsu discussion Rel-18 NR\_mobile\_IAB-Core

DISCUSSION

- Chair: Can we agree P3 first part, or P3 later part.

- Ericsson think we can only agree two physical cells, with two PCIs. Think there will otherwise be a collision, or there will be impacts to CU specification in RAN3, currently CU have different PCI ranges.

- Fujitsu confirm that with one PCI, this is intended to be ONE physical cell, NOT two cells with same PCI.

- Intel think that different NCGI should mean different physical resource.

- QC think we don’t need to limit, and think that different NCGI need different PCI, and we shall assume minimal impact to R3 and R2.

- Chair: Many comments on Torhu going in the direction that One physical cell is not feasible from RAN3 point of view.

- Chair wonder if we need to send LS to RAN1, different cells with same freq and same coverage may have issues? AT&T support sending an LS

- HW think for R17 R3 already sent an LS to R1, and we got clear replies. LG agrees. AT&T think the LS in Rel-17 was for slow topology change.

- Chair: We continue offline, on sending an LS to RAN1, assuming reuse of inter-cell handover for UEs where src and target are different physical cells, to allow CU relocation for the UEs with no impacts in R2 or R3, confirm allowing same freq use, where the two cells source and target have the same coverage, same antennas.

- RAN2 Chair additional Observation (not for LS): Solution as indicated by Fujitsu: intra-cell handover (no RAN2 impact, is possible today) + NCGI change + support for multi-CU/DU to use same single physical cell during overlap time (expected to have RAN3 impact), avoided the requirement to support multiple physical cells with different PCIs on the same frequency with same antennas. This proposal had many objection comments relating to RAN3 (on Torhu, not captured here). It not clear to Chair whether the reason for objections is bec companies have not considered such approach except Fujitsu, or that impacts (in RAN3 or in impl) are considered prohibitively large.

* Assume we send LS to RAN1 (continue offline)

Chair: Offline, first determine if old LSes cover already what should be asked. If LS need to be sent, could ask R1 to confirm feasibility for the new scenarios in R18, and could ask on a high level whether there may be restrictions etc, e.g. to avoid interference.

* [AT119bis-e][022][eIAB] Dual Cells LS (AT&T)

Scope: Determine if old LSes cover already what should be asked or if new LS is needed. If new LS is needed, can consider to ask R1 to confirm feasibility for the scenarios in R18, and could ask on a high level whether there may be configuration restrictions whether some optional UE L1 features would be required, e.g. to avoid or handle interference between the two different cells that uses the same frequency / coverage / antennas, or whether there could be other restrictions.

Intended outcome: Report if needed, Agreeable LS out (if agreeable)

Deadline: CB W2 Wed

R2-2211054 Report of [AT119bis-e][022][eIAB] Dual Cells LS (AT&T) AT&T

DISCUSSION

- QC wonder if orthogonal time/freq resources on the same carrier is supported by current L1? AT&T think R1 replied already that this can be done. QC ask whether they need to do something. Ericsson understands that this is supported and we don’t need to do anything.

- Fujitsu think that phy resource refers to frequency, but still think that the same physical cell can support two DUs, and should be preclude this case.

- HW think we should not do any enhancement that precludes legacy UEs. Vivo agrees.

- Chair: essentially the following is proposed: *RAN2 focuses on the scenario where, during full migration, the UE sees the two logical DU cells as different physical cells, and where the two logical DU cells use separate physical resources (i.e., different carriers, or orthogonal time and frequency resources of the same carrier).*The reason is that RAN2 believes that with this proposal/assumption there is no impact in RAN1, RAN2 or RAN3 to support such configuration.

* RAN2 focuses on the scenario where, during full migration, the UE sees the two logical DU cells as different physical cells (e.g. with different PCI if same carrier), and where the two logical DU cells use separate physical resources (i.e., different carriers, or orthogonal time and frequency resources of the same carrier, as supported by legacy L1).
* No LS is needed

[R2-2210273](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210273.zip) Interference mitigation Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2209764](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209764.zip) Inter-donor full migration and mitigation of interference in mobile IAB Apple discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2209523](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209523.zip) Full migration, interference mitigation and SA2 LS related issues Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2209641](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209641.zip) Discussion on Migration and PCI handling of mobile IAB-node Intel Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2209704](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209704.zip) Other enhancements for mobile IAB Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

[R2-2209954](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209954.zip) Discussion on inter-donor full migration of mobile IAB Lenovo discussion Rel-18

[R2-2210049](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210049.zip) mIAB - other key issues Samsung R&D Institute UK discussion

[R2-2210209](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210209.zip) PCI collision in mobile IAB Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2210328](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210328.zip) General aspects on mobile IAB support Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2210404](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210404.zip) Consideration on PCI collisions for Mobile IAB Sharp discussion Rel-18 R2-2208251

[R2-2210430](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210430.zip) PCI and RACH collisions on mobile IAB Kyocera discussion Rel-18

[R2-2210591](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210591.zip) Consideration on full migration, PCI and RACH configuration collision LG Electronics 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: 6 tdocs

### 8.13.1 Organizational

Ls in Rapporteur input.

[R2-2209324](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209324.zip) LS on the scope for the support of SON/MDT enhancements (R3-225238; contact: Nokia) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2209325](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209325.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

### 8.13.2 MRO for inter-system handover for voice fallback

Focus on UE impact

[R2-2209569](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209569.zip) Data Collection for MRO Related Enhancements CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209728](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209728.zip) Further discussion on MRO of inter-system HO voice fallback OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209827](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209827.zip) MRO for inter-system handover for voice fallback Samsung R&D Institute India discussion

[R2-2209864](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209864.zip) Discussion on the inter-system handover for voice fallback Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209955](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209955.zip) MRO for inter-system handover for voice fallback Lenovo discussion Rel-18

[R2-2210037](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210037.zip) Discussion on inter-system handover voice fallback Xiaomi discussion Rel-18

[R2-2210183](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210183.zip) MRO for inter-system handover for voice fallback Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210287](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210287.zip) Consideration on MRO for inter-system handover for voice fallback ZTE Corporation, Sanechips discussion Rel-18

[R2-2210300](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210300.zip) Data collection for MRO for inter-system handover for voice fallback Qualcomm Incorporated discussion Rel-18

[R2-2210510](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210510.zip) MRO for inter-system handover for voice fallback CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210632](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210632.zip) Further discussion on MRO enhancement for inter-system handover for voice fallback NTT DOCOMO, INC. discussion Rel-18

### 8.13.3 MDT override

Focus on UE impact. RAN3 progress pending on RAN2

[R2-2209570](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209570.zip) Discussion on Inter-RAT Signaling Based Logged MDT Override Protection CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209808](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209808.zip) Inter-RAT signalling based logged MDT override protection Samsung R&D Institute India discussion

[R2-2209896](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209896.zip) Discussion on the inter-system signalling based MDT override protection Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210028](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210028.zip) Considerations on the signaling based logged MDT override protection for E-UTRAN Beijing Xiaomi Software Tech discussion Rel-18

[R2-2210182](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210182.zip) MDT enhancements Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210267](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210267.zip) Signalling based Logged MDT override protection Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210288](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210288.zip) Consideration on MDT override issues ZTE Corporation, Sanechips discussion Rel-18

[R2-2210301](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210301.zip) Signalling based logged MDT override protection Qualcomm Incorporated discussion Rel-18

### 8.13.4 SHR and SPCR

Focus on UE impacts. RAN2/RAN3 progress (including the RAN3 LS R2-2209104) should be considered.

[R2-2209566](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209566.zip) Discussion on SON enhancement for SPCR vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209571](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209571.zip) Discussion on Miscellaneous MRO Enhancements CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209826](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209826.zip) SON/MDT enhancements for SHR and SPCR Samsung R&D Institute India discussion

[R2-2209865](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209865.zip) Discussion on SHR and SPCR Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209956](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209956.zip) Successful Handover Report for inter-RAT HO Lenovo discussion Rel-18

[R2-2209957](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209957.zip) SON enhancements for successful PSCell change report Lenovo discussion Rel-18

[R2-2209998](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209998.zip) Discussion on successful PSCell change report NEC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210038](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210038.zip) Discussion on SHR and SPCR Xiaomi discussion Rel-18

[R2-2210184](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210184.zip) SPR and SHR enhancements Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210268](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210268.zip) Successful PSCell Change report Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210289](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210289.zip) Consideration on SHR and SPCR ZTE Corporation, Sanechips discussion Rel-18

[R2-2210302](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210302.zip) Discussion on SHR for inter-RAT handover and successful PSCell change reporting Qualcomm Incorporated discussion Rel-18

[R2-2210521](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210521.zip) Discussion on successful PSCell change report SHARP Corporation discussion

[R2-2210624](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210624.zip) Discussion on SPCR NTT DOCOMO, INC. 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.

[R2-2209573](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209573.zip) NR-U enhancements for SON CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209765](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209765.zip) SON enhancements for NR-U Apple discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209824](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209824.zip) SON/MDT enhancements for NR-U Samsung R&D Institute India discussion

[R2-2209897](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209897.zip) Discussion on SON for NR-U Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209958](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209958.zip) Discussion on MRO for NR-U Lenovo discussion Rel-18

[R2-2210039](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210039.zip) Discussion on SON for NR-U Xiaomi discussion Rel-18

[R2-2210148](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210148.zip) SONMDT enhancement for NR-U CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210180](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210180.zip) Enhancements of SON reports for NR-U Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210270](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210270.zip) MRO and MDT enhancements for NR-U Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core R2-2208246

[R2-2210290](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210290.zip) Consideration on NR-U related SON ZTE Corporation, Sanechips discussion Rel-18

### 8.13.6 RACH enhancement

[R2-2209567](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209567.zip) Discussion on RACH report enhancement for RACH partitioning vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209572](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209572.zip) RACH enhancement for SON CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209766](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209766.zip) SON enhancements for RACH partitioning Apple discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209825](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209825.zip) SON/MDT Enhancements for RACH Samsung R&D Institute India discussion

[R2-2209898](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209898.zip) Discussion on RACH enhancement Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209986](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209986.zip) RACH report enhancements for RACH partition Spreadtrum Communications discussion Rel-18

[R2-2209999](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209999.zip) Discussion on RACH enhancements NEC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210030](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210030.zip) Discussion on the SON/MDT enhancement for RACH report Beijing Xiaomi Software Tech discussion Rel-18

[R2-2210179](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210179.zip) RACH report enhancements Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210271](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210271.zip) RACH report related enhancements Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210291](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210291.zip) Consideration on RACH enhancements ZTE Corporation, Sanechips discussion Rel-18

[R2-2210511](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210511.zip) SONMDT enhancement for RACH Enhancement. CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210574](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210574.zip) Discussion on RACH partitioning China Telecom Corporation Ltd. discussion

### 8.13.7 SON/MDT enhancements for Non-Public Networks

[R2-2209568](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209568.zip) Discussion on SON enhancement for NPN vivo discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209574](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209574.zip) SON and MDT Enhancement for NPN CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209823](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209823.zip) SON/MDT enhancements for NPN Samsung R&D Institute India discussion

[R2-2209899](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209899.zip) Discussion on SON and MDT enhancements for NPN Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210032](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210032.zip) Discussion on the SON/MDT enhancement for NPN Beijing Xiaomi Software Tech discussion Rel-18

[R2-2210104](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210104.zip) Impact of SNPN on MDT and MRO Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210149](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210149.zip) SONMDT enhancement for NPN CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210181](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210181.zip) SON support for NPN Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210292](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210292.zip) Consideration on SON-MDT support for NPN ZTE Corporation, Sanechips discussion Rel-18

[R2-2210303](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210303.zip) Discussion on SON/MDT enhancements for Non-Public Networks Qualcomm Incorporated discussion Rel-18

### 8.13.8 Other

[R2-2209726](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209726.zip) Discussion of SON on MR-DC CPAC OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2209959](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209959.zip) MRO for fast MCG link recovery and SCG failure Lenovo discussion Rel-18

[R2-2209960](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209960.zip) SON enhancements for CPAC Lenovo discussion Rel-18

[R2-2210269](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210269.zip) MRO for Fast MCG Recovery and MR-DC CPAC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210304](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210304.zip) Discussion on SONMDT enhancements for MR-DC CPAC and fast MCG Recovery Qualcomm Incorporated discussion Rel-18

[R2-2210426](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210426.zip) SON on fast MCG recovery OPPO discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210512](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210512.zip) SON/MDT enhancement for fast MCG recovery CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210513](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210513.zip) SON MDT enhancement for MR-DC CPAC CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210517](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210517.zip) Discussion on failure information for CPAC SHARP Corporation discussion

[R2-2210523](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210523.zip) Discussion on RLF report in fast MCG recovery SHARP Corporation discussion

[R2-2210626](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210626.zip) Discussion on CPAC failure report NTT DOCOMO, INC. discussion Rel-18

[R2-2210630](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210630.zip) Discussion on MRO for MR-DC SCG failure scenario and fast MCG recovery failure NTT DOCOMO, INC. discussion Rel-18

## 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

[R2-2209323](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209323.zip) LS to SA4 on Rel-18 enhancement of NR QoE (R3-225227; contact: Huawei) RAN3 LS in Rel-18 NR\_QoE\_enh To:SA4 Cc:RAN2

[R2-2209330](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209330.zip) LS to RAN2 on RAN3 agreement of QoE reporting in NR-DC (R3-225256; contact: China Unicom) RAN3 LS in Rel-18 NR\_QoE\_enh-Core To:RAN2

[R2-2210748](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210748.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 QoE measurements for RRC\_IDLE/INACTIVE for MBS broadcast services.

This agenda item will not be treated in this meeting.

[R2-2209843](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209843.zip) QoE collection for IDLE and Inactive state Qualcomm Incorporated discussion NR\_QoE\_enh-Core Withdrawn

[R2-2210754](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210754.zip) Discussion on QoE measurements in RRC\_IDLE and INACTIVE states China Unicom discussion Rel-18 NR\_QoE-Core

### 8.14.3 Rel-17 leftover topics for QoE

Including discussion on Rel-17 leftover topics: Whether/how RRC should support per-slice QoE measurement configuration, RAN-visible QoE aspects, or QoE reporting for overload scenario?

[R2-2209784](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209784.zip) Views on QoE Reporting for Overload Scenarios Apple discussion Rel-18 NR\_QoE\_enh-Core

[R2-2209830](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209830.zip) Discussion on Rel-17 leftover features for QoE Lenovo discussion Rel-18 NR\_QoE\_enh-Core

[R2-2209833](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209833.zip) Discussion on Rel-17 leftover issues for QoE ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2209837](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209837.zip) Event-based RAN visible QoE report Samsung discussion Rel-18

[R2-2209845](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209845.zip) Discussion on RAN visible QoE trigger event Qualcomm Incorporated discussion NR\_QoE\_enh-Core

[R2-2210015](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210015.zip) Discussion on Rel-17 leftover issues for QoE CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2210204](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210204.zip) Support of R17 left-over features Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2210275](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210275.zip) QMC enhancements for RAN overload Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2210306](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210306.zip) Discussion on rel-17 leftovers Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2210573](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210573.zip) Discussion on QoE Rel-17 leftover issues China Telecom Corporation Ltd. discussion

### 8.14.4 Support of QoE measurements for NR-DC

Including discussion on support of QoE measurements for NR-DC.

[R2-2209785](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209785.zip) Support of QoE in NR-DC Apple discussion Rel-18 NR\_QoE\_enh-Core

[R2-2209831](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209831.zip) Discussion on support of QoE measurements for NR-DC Lenovo discussion Rel-18 NR\_QoE\_enh-Core

[R2-2209832](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209832.zip) Discussion on Rel-18 QoE measurement for NR-DC ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2209838](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209838.zip) Support of QoE measurements for NR-DC Samsung discussion Rel-18

[R2-2209844](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209844.zip) RAN2 issues to support QoE collection in NR-DC Qualcomm Incorporated discussion NR\_QoE\_enh-Core

[R2-2210016](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210016.zip) Discussion on QoE measurement in NR-DC CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2210205](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210205.zip) Discussion on QoE measurements in NR-DC Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2210274](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210274.zip) QMC support on NR-DC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core Late

[R2-2210307](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210307.zip) Support of QoE in NR-DC Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2210752](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210752.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 not be treated in this meeting.

## 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.

[R2-2209374](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209374.zip) Work plan of R18 SL-Evo OPPO Work Plan Rel-18 NR\_SL\_enh2

### 8.15.2 SL-U: RAN2 scope

CAPC definition (e.g. relation to SL priority or PQI, fixed or configurable, etc.), LBT impact to MAC (LBT failure, resource allocation, DRX operation, etc.), and any other RAN2 scopes.

[R2-2209385](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209385.zip) Discussion on CAPC definition in SL-U OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2209386](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209386.zip) Discussion on LBT impact in SL-U OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2209464](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209464.zip) Discussion on RAN2 aspects for SL-U vivo discussion

[R2-2209465](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209465.zip) On CAPC in SL-U vivo discussion

[R2-2209521](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209521.zip) Channel Access Priority Classes for SL-U MediaTek Inc. discussion NR\_SL\_enh2

[R2-2209535](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209535.zip) Discussion on LBT for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2209598](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209598.zip) Discussion on CAPC for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2209612](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209612.zip) Discussion on RAN2 aspects in SL-U LG Electronics France discussion Rel-18 NR\_SL\_enh2

[R2-2209678](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209678.zip) Discussion on RAN2 scope of SL-U ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2209679](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209679.zip) Discussion on CAPC definition and consistent sidelink LBT failure handling ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2209737](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209737.zip) On CAPC for SL-U Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2209738](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209738.zip) MAC related aspects for SL-U Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2209742](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209742.zip) Consideration on CAPC for SL-U CATT discussion Rel-18 NR\_SL\_enh2

[R2-2209743](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209743.zip) Discussion on the SL-U Scenarios and LBT CATT discussion Rel-18 NR\_SL\_enh2

[R2-2209761](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209761.zip) Control plane aspects of sidelink on unlicensed spectrum (SL-U) Apple discussion Rel-18 NR\_SL\_enh2

[R2-2209762](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209762.zip) User plane aspects of sidelink on unlicensed spectrum (SL-U) Apple discussion Rel-18 NR\_SL\_enh2

[R2-2209891](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209891.zip) Discussion on channel access priority for NR SL-U Lenovo discussion Rel-18 NR\_SL\_enh2-Core

[R2-2209936](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209936.zip) Discussion on LBT impact to MAC for NR SL-U Lenovo discussion Rel-18

[R2-2209973](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209973.zip) Consideration on channel access priority in SL-U Spreadtrum Communications discussion Rel-18

[R2-2209996](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209996.zip) LBT failure handling for SL-U Spreadtrum Communications discussion Rel-18

[R2-2210002](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210002.zip) Discussion on consistent LBT failure for SL-U NEC discussion Rel-18 NR\_SL\_enh2

[R2-2210249](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210249.zip) Aspects of channel access mechanisms Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2210250](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210250.zip) CAPC table and MAC multiplex rules Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2210256](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210256.zip) CAPC and COT sharing for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2210257](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210257.zip) LBT Impacts to the MAC Layer InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2210280](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210280.zip) Discussion on sidelink CAPC Qualcomm India Pvt Ltd discussion

[R2-2210281](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210281.zip) Discussion on sidelink LBT impact Qualcomm India Pvt Ltd discussion

[R2-2210342](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210342.zip) Considerations on resource allocation for SL-U Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2

[R2-2210357](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210357.zip) On channel access priority class and HARQ feedback Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2

[R2-2210366](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210366.zip) Discussion on RAN2 Aspects in SL-U Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_enh2

[R2-2210379](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210379.zip) Discussion on channel access for sidelink operation on unlicensed spectrum Xiaomi discussion NR\_SL\_enh2

[R2-2210380](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210380.zip) Discussion on LBT for sidelink operation on unlicensed spectrum Xiaomi discussion NR\_SL\_enh2

[R2-2210486](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210486.zip) HARQ-based Sidelink RLF due to LBT failure MediaTek Inc. discussion Rel-18

[R2-2210552](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210552.zip) SL CAPC Samsung Research America discussion Rel-18 NR\_SL\_enh2

[R2-2210553](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210553.zip) SL resource allocation Samsung Research America discussion Rel-18 NR\_SL\_enh2

[R2-2210588](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210588.zip) Discussion on sidelink un-licensed ITL discussion Rel-18

## 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

### 8.16.1 Organizational

Rapporteur input. Rapporteur is asked to elaborate on expected work split between WGs (will be discussed).

[R2-2210677](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210677.zip) RAN2 Work Plan for Rel-18 SI on AI/ML for NR air interface Ericsson, Qualcomm Inc. Work Plan Rel-18 FS\_NR\_AIML\_air

P1

- B: Huawei think it may be possible to find common aspects but they should be motivated by use cases first, and then later look for commonalities. Ericsson think this could be an umbrella and we should try to get commonalities. Chair agrees that in the end all agreed functionality should be motivated by the use cases, but unless we just wait for long time, we need to work somewhat speculatively and maybe less efficient. Apple agrees with Huawei, that we don’t need to define a common framework, just capture changes, suggests to skip the word General.

- A: Intel think configuration signalling and control can also be general mgmt.

P2

- OPPO wonders ow to select topics in RAN2. Ericsson think this is not crystal clear. May need to adapt during the work.

GENERAL

- ZTE wonder about RAN3 impact? Ericsson are not sure. RAN3 are working on another WI. Chair think R3 may be involved in WI.

- LG wonder how to handle UC-specific issues? Strong dependency to RAN1. Can we really start in Q2? Ericsson think RAN2 shouldn’t go into details until RAN1 has progressed. Chair think this may become a key issue. Think we anyway will try.

- MTK agrees that some things are common some are use case specific. MTK think we should focus initially on topics with less R1 dependency. Lenovo agrees.

- Lenovo think it is not harmful to do analysis in RAN2 as well, as we anyway need to learn what are the cases.

- vivo agrees w MTK, hope we don’t need to wait for R1 for all. RAN2 can have some overlap if needed to make progress in RAN2. Q: in P1P2 Data is mentioned, what data is intended? Ericsson think that this work is just taken from the SID, we will need to determine the details later.

- Apple agrees with MTK that we can start with the less-dep topics.

- Samsung think we could work on UE capability. Ericsson wonder what is meant by UE cap. Should be later? SS think it is just an example. QC believe UE cap may be used in the procedures .. right now it seems only what models are supported.

- Xiaomi observe that there are proposals to involve CN, but see no SI in SA2, wonder what is the intention. Chair think we can allow such discussion in principle, as this is a SI.

- QC think there are some topics with RAN2 clear scope, can start with those, model delivery, identification of the model etc.

- CATT think RAN2 can discuss common framework based on contributions, can also work on use cases with good progress in R1 e.g. CSI.

- Nokia think we need to determine whether awareness is required or not.

- TMO think that privacy and security need to be considered. Chair think this would need to be considered, but maybe not at first. Privacy is mentioned in the SID.

- CMCC think privacy / security can be considered when we have a better view. CATT agrees. IDT agrees.

- Spreadtrum think 2 need to be updated.

Some initial Assumptions on the work:

- Assume that RAN2’s work can be somewhat split: A) use-case-centric configuration, signalling and control procedures, B) management of data and AI/ML models (where part of discussion may overlap between use cases).

- Assume that e.g. for the management of data and AI/ML models, RAN2 could start by focusing on data collection, model transfer, model update, model monitoring and model selection/(de)activation/switching/fallback (to the extent needed), whether UE capabilities has a role in this.

- Chair assumes that we will input on various aspects when the time is right, and e.g. postpone things that obviously need R1 decisions, but there could be some rare exception.

* 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), other framework aspects, impact on RAN2 and in general.

[R2-2210157](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210157.zip) Discussion on AIML methods for NR air interface CMCC discussion Rel-18 FS\_NR\_AIML\_air

DISCUSSION O1 P1

- Chair asks if there are any comments on the Terminology defined by RAN1.

- OPPO wonder if RAN2 can add/modify? Chair confirms that yes this is possible, but if we want to modify think there need to be a motivation and need to expalain to R1 why. HW agrees that RAN2 may need to add.

- Samsung think R1 are confirming things now.

* Assume that R2 will reuse terminology defined by R1 to the extent possible/reasonable

[R2-2209700](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209700.zip) Protocol aspects of AI/ML framework for NR air interface AT&T discussion

DISCUSSION

- P1: Chair: lots of desire to modify the details, think this is more like an observation: Observation: two typical architecture categories seems to apply to AIML: Type 1: Near-Real Time / Centralized training and inference at UE, gNB and/or OAM system,Type 2: Real-Time / Distributed training and inference at UE, gNB and/or OAM system.

- P2: AT&T think that collaboration levels need to be clarified from RAN perspective, especially y and z.

- VDF wonder if these have R2 impacts. AT&T think levels y and z has impact. Intel think that even for level x there may be impact, e.g. data collection. CATT think the main difference x y is whether the model delivery is transparent to 3GPP or not, think it is more helpful to focus on the details. ZTE agrees and think that this concept is not so useful for RAN2. Several companies support.

- A number of companies indicate that R1 is working on this.

* Observation: the collaboration levels definitions doesn’t really clarify what is required, more work is needed

[R2-2209605](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209605.zip) General framework of AI/ML over air interface Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

DISCUSSION

- Chair wonder about the Ran3 model. Is it general?

- ZTE think this is a network side model, think the air interface need to be indicated,

- Ericsson think this could be taken as reference, but it is intended for RAN3. Should wait for RAN1. Can be a basis but expect RAN1 to make a diagram for this SI at current meeting. QC agrees it can be a reference, but not sure. It is time consuming, think we better focus on the procedure.

- Chair think that it would b e good to have some models (simplified) that could be shared among the groups.

- VDF wonder if inference input and output are different. Intel think they are different and think that inference input can be the same as training input.

- Chair think many interesting questions are raised but think we cannot really reply/decide.

- Ericsson think we shouldn’t go into inference or training details ..

- Chair think we can postpone discussions on training altogether for a cpl of meetings. QC agrees

* Noted

[R2-2210293](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210293.zip) Discussion on AI/ML methods Qualcomm Incorporated discussion Rel-18

DISCUSSION

P5

- Nokia wonder what is the impact of RAN2

P6

- AT&T think we sholdnt preclude something open. Too strong wording.

- Nokia wonder if proprietary model means that we deliver by user plane. QC think there is no 1-to-1 dependency

- CATT think R2 can just consider the model to be a e.g. transparent container, for which the contents is not know by Ran2.

- QC think open formats cannot bs supported, eg. due to testing etc.

- LG wonder what open means. Chair think it just means specified.

P7

- Nokia think R1 hasn’t agreed a model ID.

O9

- ZTE think we can keep both options on the table. Think UP signalling from OAM system can also be applied, can be discussed ind for each use case.

- Apple think UP/CP need clearer specification, can discuss case by case.

- QC think we may not need to decide, but the CP is not a good solution due to capability etc for SRB. These can be large containers.

* R2 assumes that for the existing (under discussion) AI/ML use cases, proprietary models may be supported and/or open format may be supported (and maybe RAN2 doesn’t have to further elaborate on this assumption).
* R2 assumes that from Management or Control point of view mainly some meta info about a model may need to be known, details FFS.
* R2 assumes that a model is identified by a model ID. Its usage is FFS.
* General FFS: AIML Model delivery to the UE may have different options, Control-plane (multiple subvariants), User Plane, can be discussed case by case.

[R2-2209760](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209760.zip) Discussion on RAN2 aspects of AI/ML for air interface Apple discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210233](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210233.zip) On the impact of AI/ML methods Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209720](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209720.zip) Consideration on General Aspects of AIML for NR Air-interface CATT discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209595](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209595.zip) Discussion on RAN2 Aspects of AI/ML over Air Interface MediaTek Inc. discussion FS\_NR\_AIML\_air

[R2-2209420](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209420.zip) Work Split Consideration for Air Interface AIML OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209421](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209421.zip) Life Cycle Management for Air Interface AIML OPPO discussion Rel-18 FS\_NR\_AIML\_air

=> Revised in [R2-2210774](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210774.zip)

[R2-2210774](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210774.zip) Life Cycle Management for Air Interface AIML OPPO discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209564](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209564.zip) Discussion on general aspects of AIML methods vivo discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209884](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209884.zip) Discussion on AIML for NR air interface Xiaomi discussion

[R2-2209905](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209905.zip) AI/ML Model Management Samsung R&D Institute UK discussion Rel-18

[R2-2209906](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209906.zip) AI/ML Capability Indication Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209951](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209951.zip) General issues on AI for air interface Lenovo discussion Rel-18

[R2-2209995](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209995.zip) Discussion on AMML methods Spreadtrum Communications discussion Rel-18

[R2-2210228](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210228.zip) Considerations about AI/ML framework Sony discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210340](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210340.zip) Discussion on common framework and RAN2 impacts Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210402](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210402.zip) Framework of AI/ML for air interface NEC discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210436](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210436.zip) Discussion on AIML methods InterDigital, Inc. discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210461](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210461.zip) Discussion on AI/ML Model Management Framework for Positioning Enhancement Use-case TCL Communication Ltd. discussion Rel-18

[R2-2210520](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210520.zip) Discussion on AIML Methods Rakuten Mobile, Inc discussion Rel-18

[R2-2210564](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210564.zip) Aspect of ML model provisioning between UE and network LG Electronics discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210614](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210614.zip) Initial Discussion on General Aspect of AI/ML study ZTE Corporation,Sanechips discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210678](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210678.zip) General aspects for AI/ML for NR air interface Ericsson 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.

Positioning

[R2-2209952](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209952.zip) Discussion on AI for air interface use cases Lenovo discussion Rel-18

[R2-2210123](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210123.zip) Discussion on AI/ML for positioning accuracy enhancement Xiaomi discussion

[R2-2210487](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210487.zip) Discussion on AI/ML Based Positioning Methods Selection TCL Communication Ltd. discussion Rel-18

CSI feedback enhancements

[R2-2210299](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210299.zip) Discussion on use case specific aspects Qualcomm Incorporated discussion Rel-18

ALL use cases but with concrete proposal for CSI

[R2-2210341](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210341.zip) Discussion on use case specific aspects Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

Beam Mgmt

[R2-2210234](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210234.zip) Potential impacts for use case specific aspects Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

[R2-2210615](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210615.zip) Initial Discussion on Use Cases for AI/ML Study ZTE Corporation,Sanechips discussion Rel-18 FS\_NR\_AIML\_air

General

[R2-2210158](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210158.zip) Discussion on use case specific aspects for AIML for NR air interface CMCC discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209721](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209721.zip) Consideration on the Use Case Specific AIML for NR Air-interface CATT discussion Rel-18 FS\_NR\_AIML\_air

[R2-2209565](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209565.zip) Consideration of use case specific aspects vivo discussion Rel-18 FS\_NR\_AIML\_air

Other

[R2-2210654](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210654.zip) Use case specific RAN2 impact LG Electronics Finland discussion Rel-18

RRM measurement Prediction

[R2-2210679](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210679.zip) Use cases for AI/ML for NR air interface Ericsson 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: 1 TU

Tdoc Limitation: 3 tdocs

### 8.17.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan)

[R2-2210388](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210388.zip) Work planning of R18 MUSIM vivo discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

### 8.17.2 Temporary capability restriction for MUSIM

No documents should be submitted to 8.16.2. Please submit to.8.16.2.x

#### 8.17.2.1 Scenarios

Including discussion on scenarios to address in this WI: What are the prioritized scenarios? What is assumed from UE and network? Is it assumed that UE supporting dual RRC connection also supports Rel-17 MUSIM?

[R2-2209391](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209391.zip) Consideration on the Dual (Tx/Rx) MUSIM Scenarios ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2209422](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209422.zip) Scenarios Clarification for R18 MUSIM OPPO discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2209576](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209576.zip) Scenarios for Dual-Active MUSIM Qualcomm Incorporated discussion

[R2-2209637](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209637.zip) Considerations on Rel-18 MUSIM Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2209734](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209734.zip) Discussion of temporary UE capability switching for MUSIM China Telecom discussion Rel-18

[R2-2210000](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210000.zip) Scenarios of Temporary capability restriction for MUSIM NEC discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210017](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210017.zip) Applicable scenarios for R18 MUSIM WI Huawei, HiSilicon discussion

[R2-2210059](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210059.zip) Discussion on prioritized scenarios for temporary UE capability restriction Xiaomi discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210070](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210070.zip) UE Architecture, assumptions and Primary scenarios for Dual TX/RX MUSIM operation Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2210389](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210389.zip) Scenarios for Rel-18 Multi-SIM vivo discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210392](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210392.zip) Scenarios and assumptions for Dual-RX/Dual-TX MUSIM UE Ericsson discussion NR\_DualTxRx\_MUSIM-Core

[R2-2210421](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210421.zip) eMUSIM Scenarios Sharp discussion

[R2-2210503](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210503.zip) Discussion on R18 MUSIM Scenarios MediaTek Inc. discussion NR\_DualTxRx\_MUSIM-Core

[R2-2210533](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210533.zip) Applicable scenarios for dual Tx/Rx MUSIM devices DENSO CORPORATION discussion NR\_DualTxRx\_MUSIM-Core

[R2-2210582](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210582.zip) Scenarios for Rel-18 MUSIM LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210728](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210728.zip) General considerations on potential scenarios for MUSIM Samsung discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210738](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210738.zip) Discussion on MN-SN MUSIM gaps coordination in INM Samsung discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

#### 8.17.2.2 Solutions

Including discussion on mechanism to indicate preference on temporary UE capability restriction and removal of restriction: How is this accomplished: e.g. capability update, release of cells, (de)activation of configured resources? What are the cases when this can occur for MUSIM, i.e. what does "start/stop connection to NW B) for MUSIM purpose" mean?

[R2-2209392](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209392.zip) Consideration on the Temporary UE Capability Restriction for the Dual (Tx/Rx) MUSIM ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2209423](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209423.zip) Potential Solutions on temporary UE capability restriction and removal of restriction OPPO discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2209575](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209575.zip) UE Capability Update for Dual-Active MUSIM Qualcomm Incorporated discussion

[R2-2209596](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209596.zip) Discussion on Dual Tx/Rx Multi-SIM for NR Vodafone discussion Rel-18

[R2-2209638](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209638.zip) Possible solutions to indicate temporary capability reduction for Rel-18 MUSIM Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2209856](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209856.zip) Discussion on Dual Tx/Rx Multi-SIM ASUSTeK discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210001](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210001.zip) Solutions of Temporary capability restriction for MUSIM NEC discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210007](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210007.zip) Discussion on UE capability update for MUSIM Huawei, HiSilicon discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210018](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210018.zip) Discussion on UE-initiated SCell deactivation and activation Huawei, HiSilicon discussion

[R2-2210060](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210060.zip) Capability sharing issue for SRS Tx switching capability Xiaomi discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210071](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210071.zip) Candidate solutions for Dual TX/RX MUSIM operation Nokia, Nokia Shanghai Bell discussion Rel-18 Late

[R2-2210072](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210072.zip) Additional scenarios for Dual TX/RX MUSIM UE Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2210390](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210390.zip) Potential solutions for Rel-18 Multi-SIM vivo discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210393](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210393.zip) Support of Dual-RX/Dual-TX MUSIM UE Ericsson discussion NR\_DualTxRx\_MUSIM-Core

[R2-2210422](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210422.zip) eMUSIM Solutions Sharp discussion

[R2-2210446](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210446.zip) [Draft] LS on DLUL interruption due to capability switching vivo LS out NR\_DualTxRx\_MUSIM-Core To:RAN4

[R2-2210514](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210514.zip) Discussion on R18 MUSIM Solutions MediaTek Inc. discussion NR\_DualTxRx\_MUSIM-Core

[R2-2210534](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210534.zip) Possible solution for dual Rx/Tx MUSIM devices DENSO CORPORATION discussion NR\_DualTxRx\_MUSIM-Core

[R2-2210583](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210583.zip) General soluion for Rel-18 MUSIM LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210596](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210596.zip) Analysis on dual Tx/Rx Multi-SIM Lenovo Information Technology discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210730](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210730.zip) Discussion on capability coordination for MUSIM Samsung discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

### 8.17.3 Other

Including any other aspects of dual Tx/Rx Multi-SIM.

[R2-2209393](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209393.zip) Considering on the Scheduling Gap Enhancement for the MR-DC ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210391](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210391.zip) Discussion on MUSIM gap collision handling vivo discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2210394](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210394.zip) Discussion on MUSIM gaps for a Dual-RX/Dual-TX UE Ericsson discussion NR\_DualTxRx\_MUSIM-Core

[R2-2210485](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210485.zip) Band Conflict Issue and Mitigation for MUSIM Apple discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

## 8.18 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

[R2-2209303](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2209303.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_119bis-eDocsR2-2209303.zip) LS on starting a timer in RRC-inactive state (C1-225319; contact: Huawei) CT1 LS in Rel-18 5GProtoc18 To:SA2 Cc:RAN2

Chair: R2 is CCed, no action

* [000] Noted

[R2-2209322](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209322.zip) Reply LS on FS\_REDCAP\_Ph2 option feasibility (R3-225119; contact: ZTE) RAN3 LS in Rel-18 FS\_REDCAP\_Ph2 To:SA2 Cc:RAN2, CT1, CT4

Chair: R2 replied last meeting, is CCed, no action

* [000] Noted

NS Value extension

Offline

* [AT119bis-e][013][NR18] NS Value Extension (Apple)

Scope: Treat R2-2209344, R2-2209790, R2-2209791, R2-2210395. Ph1 Determine agreeable parts, Based on agreeable parts, progress TP/Draft CR,.   
Ph2: Reply LS out

Intended outcome: Report, Endorsed TP/Draft CR, Ph2: Approved LS out.

Deadline: Ph2 W2 Wed (offline, CB only if needed)

[R2-2210988](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210988.zip) Summary of email discussion [AT119bis-e][013][NR17] NS Value Extension (Apple) Apple

DISCUSSION

General

- AT&T think this change may be NBC. Chair think it is protocol-wise BC and whether functionally BC or not would depend on RAN4. Apple think that as we inform RAN4 about the reserved value, RAN4 can ensure this is BC.

- TMO think that the reserved bit would be an added burden for the other bands, so we should ask this. There are spare bits left for all bands. Could also have a smaller extension for lic bands.

P3

- MTK think the restriction should be in RRC so non-NRU UEs don’t need to impl the extension. HW OPPO agrees.

- Apple understands that this is not only for unlicenced. TMO think this is only for unlicensed.

P6

- Nokia think R4 request is strange as NRU was introduced in Rel-16. Think the rel-ind simplifies R4 discussions a lot. Would prefer to introduce this as early as reasonable, Rel-16.

- HW think R4 just asks if feasible. HW think we should ask for reasons, otherwise we would have such request for many issues. MTK agrees it is not clear why R4 need this, agrees we can ask R4 about reasons. Intel also agrees.

- QC think that if we wait for Rel-18 it means that the signalling is available very very late. Would like to take the R4 request if feasible. ZTE agrees with this, think that from signalling perspective we should make the spare a spare in an even earlier release, as early as possible.

- MTK: R16 is not acceptable, as it in reality impacts legacy UEs. OPPO agrees.

- Ericsson think that there is no impact on legacy UEs and this is really release independent, should be done from Rel-16, think this is purely band related. LGE agrees. Apple support this as well.

- Chair: It seems not possible to decide in R2 now, there are some diverging opinions. Chair note that Normally R2 would honour R4 requests for rel-independence and expect that we would continue to do that. We can ask R4 some questions, and companies can think some more.

* On the Support from Rel-17, R2 concludes that it is technically feasible, but a number of companies are asking about R4 reasons/intentions, can ask about this.
* Ask R4 about whether the intention is to extend only for unlic band or in general.
* R2 is considering a solution along these lines

Extended NS values are signalled using extension IE and the value ‘7’ from the existing NS values can be considered as reserved (to indicate that extended NS values are signalled in the extension IE). Inform RAN4 about the signalling using ‘7’ as reserved value.

The extended range of NS values will be signalled with a 5-bit extension IE.

Extended NS values can be signalled in broadcast (SIB1) and UE dedicated messages.

Chair: Continue offline in the same discussion for Reply LS, can approve offline, or if needed CB online W2 Wed.

[R2-2209344](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209344.zip) LS on extending the maximum range for NS values (R4-2214953; contact: Apple) RAN4 LS in Rel-18 NR\_unlic\_enh To:RAN2

- [013] no comments on the LS

* Noted

[R2-2209790](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209790.zip) On extending the maximum range of NS values Apple discussion Rel-18 NR\_unlic\_enh

[R2-2209791](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209791.zip) [Draft] LS reply on extending the maximum range for NS values Apple discussion Rel-18 NR\_unlic\_enh

[R2-2210395](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210395.zip) Increasing NS value range Ericsson discussion TEI17

*Moved from 6.24.1*

* [013] 3 tdocs Noted

SENSE

Offline first

* [AT119bis-e][014][NR18] SENSE (Huawei)

Scope: Treat R2-2209304, R2-2209917, R2-2209918, R2-2210098, R2-2210099, R2-2210100, R2-2210515, R2-2210532, R2-2210529, R2-2210618, R2-2210631. Determine agreeable parts, Open points etc, Based on agreeable parts, progress LS out. If applicable progress TP / Draft CRs.

Intended outcome: Report, Agreeable LS out, agreeable TP/Draft CR if applicable.

Deadline: For CB W1 Fri

CLOSED

R2-2210985 [AT119bis-e][014][NR18] SENSE Huawei, HiSilicon

DISCUSSION

- HW report that one company opinion is not in the report due to lateness.

- Chair wonder if this is not just the same as PLMN selection with High Quality Criterion which we have today?

- QC think legacy PLMN selection may support this, as RSRP is forward to NAS for the highQ criterion.

- Ericsson understands that indeed this is PLMN selection, so no R2 impact, some companies think this is cell selection. QC agrees. DT agrees as well and think that this is particularly for stationary IOT UEs in an always roaming situation .. VF LG Samsung agrees.

- HW think this is also about cell selection. Chair think this is as todays PLMN selection with high Q criteron then but this has never been specified. QC think HW describes is a very bad impl.

- Chair: can postpone this as proposed

* The topic is Postponed (expect to continue next meeting)

[R2-2209304](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209304.zip) LS on SENSE feature (C1-225338; contact: Huawei) CT1 LS in Rel-18 SENSE To:RAN2 Cc:SA1

[R2-2209917](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209917.zip) Reply LS on SENSE feature vivo LS out Rel-18 SENSE To:CT1 Cc:SA1

[R2-2209918](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209918.zip) Discussion on SENSE feature vivo discussion Rel-18 SENSE

[R2-2210098](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210098.zip) Discussion on RAN2’s impact of SENSE OPPO discussion Rel-18

[R2-2210532](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210532.zip) Reply LS on SENSE feature Huawei, HiSilicon LS out Rel-18 To:CT1 Cc:SA1

[R2-2210529](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210529.zip) Discussion on RAN Aspects of Signal Level Enhanced Network Selection Huawei, HiSilicon discussion Rel-18 R2-2208490

[R2-2210618](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210618.zip) Discussion on SENSE feature Deutsche Telekom, Thales, Ericsson, Telecom Italia discussion Rel-18 SENSE

[R2-2210631](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210631.zip) Draft Reply LS on SENSE feature Deutsche Telekom discussion Rel-18

* [014] 8 tdocs are noted

CRs and draft CRs were not treated

[R2-2210099](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210099.zip) 36.304 CR on SENSE OPPO CR Rel-18 36.304 17.2.0 0855 - B NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2210100](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210100.zip) 38.304 CR on SENSE OPPO CR Rel-18 38.304 17.2.0 0286 - B NR\_newRAT-Core

[R2-2210515](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210515.zip) 38.304 CR on SENSE feature vivo draftCR Rel-18 38.304 17.2.0 F SENSE

Slicing

Handled by Parallel Session (Tero)

[R2-2209355](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209355.zip) LS Out on RAN dependency of FS\_eNS\_Ph3 (S2-2207435; contact: ZTE) SA2 LS in Rel-18 FS\_eNS\_Ph3 To:RAN2, RAN3

[R2-2209900](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209900.zip) Discussion on RAN dependency of FS\_eNS\_Ph3 Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2210103](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210103.zip) Proposed answers to SA2 LS on RAN dependency of FS\_eNS\_Ph3 ([R2-2209355](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209355.zip)/SA2-2207435) Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_eNS\_Ph3

[R2-2210206](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210206.zip) Discussion on LS on RAN dependency of FS\_eNS\_Ph3 Lenovo discussion NR\_slice-Core

[R2-2210229](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210229.zip) Draft reply LS to SA2 on FS\_eNS\_Ph3 Lenovo LS out NR\_slice-Core To:SA2 Cc:RAN3

[R2-2210397](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210397.zip) On FS\_eNS\_Ph3 Ericsson discussion FS\_eNS\_Ph3

[R2-2210403](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210403.zip) Considerations on SA2 Key issue #3 NEC discussion Rel-18 FS\_eNS\_Ph3

[R2-2210622](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210622.zip) Draft Reply LS Out on RAN dependency of FS\_eNS\_Ph3 Ericsson discussion FS\_eNS\_Ph3

[R2-2210647](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210647.zip) Discussion on the LS on RAN dependency of FS\_eNS-Ph3 CATT discussion Rel-18 FS\_eNS\_Ph3

[R2-2210669](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210669.zip) Consideration on RAN dependency of FS\_eNS\_Ph3 ZTE corporation, Sanechips discussion Rel-18

[R2-2210670](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210670.zip) [Draft] Reply LS on RAN dependency of FS\_eNS\_Ph3 ZTE corporation, Sanechips LS out Rel-18 To:SA2 Cc:RAN3

DSS enhancements

Offline first

* [AT119bis-e][016][NR18] DSS enhancement (ZTE)

Scope: Treat R2-2209314, R2-2210636, R2-2210133, R2-2210297, R2-2210586, R2-2210587, Determine agreeable parts, Open points etc

Intended outcome: Report, Agreeable CRs if applicable.

Deadline: For CB W1 Fri

CLOSED

R2-2210992 Report of [AT119bis-e][016][NR18] DSS enhancement (ZTE) ZTE

DISCUSSION

- Chair wonder how long time we will wait for RAN1, e.g. for UE caps

- Chair: We confirm that R2 will do as usual, when running CRs have good status we still just endorse or agree-in-principle, and then postpone final agreement until TSes for Rel-18 are scheduled to be created.

* Endorse the Rel-18 TS 38.331 CR, the modification is the same as the TS 38.331 TP in R2-2210297.
* Endorse the Rel-18 TS 38.306 CR, the modification is same as in R2-2210586, no need to update Rel-16/17 specs with the assumption that the same condition is already applicable to Rel-16/17 UEs based on RAN1 spec.
* RAN2 waits for RAN1 regarding the RRC configuration and UE capability for PDCCH on CRS

R2-2210993 Running 38.331 CR for R18 DSS Ericsson, ZTE Cporporation DraftCR Rel-18 38.331 NR\_DSS\_enh

* Running CR is endorsed

R2-2210994 Running 38.306 CR for R18 DSS Ericsson, ZTE Cporporation DraftCR Rel-18 38.306 NR\_DSS\_enh

* Running CR is endorsed

[R2-2209314](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209314.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

* [016] Noted

[R2-2210636](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210636.zip) Work plan for Rel18 WI on Enhancement of NR Dynamic spectrum sharing (DSS) Ericsson discussion

* [016] Noted

[R2-2210133](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210133.zip) RRC configuration and UE capability for PDCCH on CRS Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_DSS\_enh

* [016] Noted

[R2-2210297](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210297.zip) Discussion on two overlapping LTE-CRS patterns in Rel-18 DSS ZTE Corporation, Sanechips, Ericsson discussion Rel-18 NR\_DSS\_enh-Core

* [016] Noted, TP is agreeable

[R2-2210586](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210586.zip) Clarification on the DSS UE capability Xiaomi CR Rel-16 38.306 16.10.0 0818 - F TEI16

* [016] TP is used for running CR (for Rel-18), but this CR is not pursued.

[R2-2210587](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210587.zip) Clarification on the DSS UE capability Xiaomi CR Rel-17 38.306 17.2.0 0819 - A TEI16

* [016] not pursued

MC enhancements

Wait for RAN1/4

[R2-2209336](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_119bis-e\\Docs\\R2-2209336.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_119bis-eDocsR2-2209336.zip) Reply LS on UL Tx switching across 3 or 4 bands (R4-2214464; contact: China Telecom) RAN4 LS in Rel-18 NR\_MC\_enh-Core To:RAN1 Cc:RAN2

Chair: RAN2 is CCed, no action

* [000] Noted

[R2-2210298](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210298.zip) Consideration on Rel-18 UL Tx switching capability and configuration ZTE Corporation, Sanechips discussion Rel-18 NR\_MC\_enh-Core

[R2-2210437](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210437.zip) Current status of Rel-18 UL Tx switching in RAN2 NTT DOCOMO INC. discussion Rel-18

[R2-2210490](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210490.zip) RAN2 impact to support Rel-18 UL Tx switching enhancements Huawei, HiSilicon discussion Rel-18 NR\_MC\_enh-Core

[R2-2210637](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210637.zip) On RAN2 aspects for UL TX switching Rel-18 Ericsson discussion

Protection of SI

Wait for SA3

[R2-2210680](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210680.zip) Protection of system information Ericsson discussion Rel-18

Low Latency

Assigned to UP session (Diana), postponed at current meeting.

[R2-2209364](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209364.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

Relaying of pos SIBs

Assigned to parallel session (Nathan), postponed at current meeting

[R2-2210320](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210320.zip) Relaying of posSIBs Ericsson discussion Rel-18

[R2-2210367](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210367.zip) On Positioning Support for L2 UE-to-Network Remote UEs Qualcomm Incorporated discussion

TEI16

Not treated at current meeting

[R2-2210710](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210710.zip) Enhancements of Public Warning System Ericsson discussion Rel-18

# 9Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

Breakout session reports will be approved by email.

## 9.1 Session on NTN, IoT NTN, RedCap and CE

R2-2210801 Report from Break-Out Session on NTN, IoT NTN, RedCap and CE Vice Chairman (ZTE) Report

## 9.2 Session on LTE legacy, 71 GHz, DCCA, Multi-SIM, RAN slicing, QoE and XR

R2-2210802 Report from session on LTE legacy, 71 GHz, DCCA, Multi-SIM, RAN slicing, QoE and XR Vice Chairman (Nokia) Report

## 9.3 Session on UP, Small data, URLLC/IIoT, RACH indication, NWES and UAV

R2-2210803 Report from UP, Small data, URLLC/IIoT, RACH indication, NWES and UAV Session chair (InterDigital) Report

## 9.4 Session on positioning and sidelink relay

R2-2210804 Report from session on positioning and sidelink relay Session chair (MediaTek) Report

## 9.5 Session on LTE V2X and NR SL

R2-2210805 Report from session on LTE V2X and NR SL Session chair (Samsung) Report

## 9.6 Session on SON/MDT

R2-2210806 Report from SON/MDT session Session chair (CMCC) Report

## 9.7 Session on MBS

R2-2210807 Report from MBS breakout session Session chair (Huawei) Report

## 9.8 Session on NC Repeater

R2-2210808 Report from NC Repeater breakout session Session chair (Apple) Report