3GPP TSG-RAN WG2 Meeting #121-bis electronic R2-2xxxxxx

April 17-26, 2023

Source: RAN2 Chairman (MediaTek)

Title: Chair Notes

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

Discussions with Deadline **Schedule 1**:

A **first round** with **Deadline W1 Friday April 21th 1000 UTC** to settle scope what is agreeable etc (at latest, Rapp may also set an earlier deadline)

A Final round with **Final deadline W2 Wednesday April 26th 1000 UTC (EOM)** 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.

* [AT121bis-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

* [AT121bis-e][001][NR1516] Stage 2 and RRC 0 (Huawei)

Scope: Treat R2-2304108, R2-2304109, R2-2304110, After online: R2-2303465, R2-2303466, R2-2303279, R2-2303280, R2-2303281.   
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][002][NR1516] RRC 1 (Ericsson)

Scope: Treat R2-2303635, R2-2303636, R2-2303282, R2-2303283, R2-2303284, R2-2303285, R2-2302881, R2-2302882, R2-2304093, R2-2304094, R2-2304095, R2-230, R2-230, R2-230, R2-230,  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][003][NR1516] RRC 2 (Samsung)

Scope: Treat R2-2302595, R2-2302596, R2-2302597, R2-2302666, R2-2302667, R2-23083106, R2-2303107, R2-2304096, R2-2304091, R2-2304092, R2-2302771, R2-2304132, R2-2304140, R2-2303871, R2-2303872  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][004][NR1516] UE cap (ZTE)

Scope: Treat R2-2302437 (if needed), R2-2303660, R2-2303877, R2-2303878, R2-2303879, R2-2303880, R2-2303881, R2-2304161, R2-2304162, R2-2304163, R2-2304164, R2-2304165, R2-2304166  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][005][NR17] CP Redcap Corrections (Huawei)

Scope: Treat R2-2302529, R2-2303133, R2-2303134, R2-2303286, R2-2303287, R2-2304012, R2-2303616, R2-2303135,   
Ph1: Determine agreeable parts, and online CB if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][006][NR17] CP PowSav and DCCA Corrections (CATT)

Scope: Treat R2-2302541, R2-2302800, R2-2303617, R2-2303467, R2-2302553, R2-2302554, R2-2302658, R2-2303662  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][007][NR17] RRC UpTo71GHz Corrections (Nokia)

Scope: Treat R2-2302405, R2-2302408, R2-2302691, R2-2302773, R2-2302842, R2-2303057, R2-2303125, R2-2303472, R2-2303557, R2-2303917, R2-2303918, R2-2303942, R2-2304125.  
Ph1: Determine agreeable parts, identify online CB points. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][008][NR17] RRC MUSIM Corrections (vivo)

Scope: Treat R2-2303262, R2-2303661, R2-2303770, R2-2303771, R2-2303831, R2-2303876, R2-2303195  
Ph1: Determine agreeable parts, identify online CB if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][009][NR17] RRC Misc Corrections (ZTE)

Scope: Treat R2-2303021, R2-2303346, R2-2302457, R2-2303679, R2-2303814, R2-2304087  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][010][NR17] UE Caps Misc Corrections (Samsung)

Scope: Treat R2-2303882, R2-2302435, R2-2302941, R2-2302575, R2-2302774, R2-2302887  
Ph1: Determine agreeable parts, prepare online CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][011][NR17] UE Caps BW related Corrections (Qualcomm)

Scope: Treat R2-2302436, R2-2302439, R2-2302440, R2-2302577, R2-2302729, R2-2303398, R2-2304169, R2-2303883  
Ph1: Determine agreeable parts and prepare on-line CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][012][NR17] Slicing Corrections (Nokia)

Scope: Treat R2-2303900, R2-2302861, R2-2302862, R2-2302983, R2-2303637, R2-2303638, R2-2303740, R2-2304039, R2-2304041  
Ph1: Determine agreeable parts and prepare on-line CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

* [AT121bis-e][013][NR17] IAB Corrections (Huawei)

Scope: Treat R2-2303479, R2-2303003, R2-2303480, R2-2304097  
Ph1: Determine agreeable parts and on-line CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

Added W1 Monday

* [AT121bis-e][014][AIML] Model ID (incl meta data) progress (OPPO)

Scope: Take into account relevant input to this meeting. Determine the use cases and usefulness of Model ID, potential additional meta data.   
Collect Comments, Identify easy agreements (if any), potential agreements, and Open Issues (which seem important to address). Pave the way for online Come-Back

Intended outcome: Report

Deadline: Online CB Monday April 24

* [AT121bis-e][015][eIAB] Beam handling RACH-less HO (Intel)

Scope: Continue the discussion based on R2-2304098 (and R2-2302784). Address the potential issue of beam handling in target cell at RACH less handover, determine to what extent a solution could be feasible it in the scope of eIAB Rel-18 WI. Can also document the resolutions to the other issues listed in R2-2304098 if they were found working. Pave the way for online Come-Back.

Intended outcome: Report

Deadline: Online CB Monday April 24

Added W1 Tuesday

* [AT121bis-e][017][eMob] RRC (Ericsson)

Scope: Review of RRC CR in R2-2304101, which doesn’t include this meetings agreements. Identify things that should be corrected and missing things.

Intended outcome: Improved baseline RRC CR (no attempt to formally endorse), including editors Notes indicating Open Issues that should be addressed in the upcoming meetings.

Deadline: EOM (offline only, can is needed extend to W2 Friday).

* [AT121bis-e][018][eMob] Procedure Consolidation (Huawei)

Scope: 1: Identify agreements (easy / tentative), and Open Issues that should be resolved to consolidate and clarify LTM procedures, can also suggest/indicate wanted updates to procedural descriptions (ST-2)

2: Collect comments on R3 LS and propose resolution.

Use R2-2303549, R2-2302829 as inspiration, Can also include proposals from other papers that seem relevant.

Intended outcome: Report

Deadline: CB W2 Wednesday

* [AT121bis-e][019][eMob] L1 Measurements (Qualcomm)

Scope: Based on measurements input to current meeting, identify agreements (easy / tentative) and open issues (to be addressed at next meeting),

Intended outcome: Report

Deadline: CB W2 Wednesday

* [AT121bis-e][020][MCE] LS out UL TX Switching (NTT Docomo)

Scope: LS out to RAN1 according to Agreements. Can add related questions if agreeable,

Intended outcome: Agreeable LS out

Deadline: CB W2 Tuesday

* [AT121bis-e][021][MCE] UL TX Switching (NTT Docomo)

Scope: Attempt progress on P6 from R2-2302730

Intended outcome: Report with agreeable proposal and/or other way forwards.

Deadline: CB W2 Tuesday

Added W1 Wednesday

* [AT121bis-e][022][ATG] Reply LS on applicability of SIB19 for NR ATG (Qualcomm)

Scope: Reply LS to RAN4

Intended outcome: Approved LS out (offline only, no online CB).

Deadline: EOM

* [AT121bis-e][023][MGE] Measurements without gap with interruption (Mediatek)

Scope: Converge on solution. If possible, revise draft CRs to be agreeable. If needed produce a reply LS (intel, Catt).

Intended outcome: Report, endorsed CRs (if possible), approved LS out - if needed

Deadline: EOM (CB online only if needed, otherwise offline only).

* [AT121bis-e][024][AIML] Data Collection Table (Nokia)

Scope: Extend the previously endorsed table with 3 columns (3 LCM purposes): Inference, Monitoring and Training, and explain in free text the applicability of the data collection method to the LCM purpose and the use case(s).

Intended outcome: Report with agreeable (or almost agreeable) table update

Deadline: CB W2 Wednesday.

Added W1 Thursday

* [AT121bis-e][025][NR1516] NeedCode Secondary DRX CRs (Huawei)

Scope: CR approval for Correction on the need code for secondary DRX group (avoid rediscussion next meeting). Chair : Please make a clear interoperability statement.

Intended outcome: In-Principle-Agreed CRs

Deadline: EOM (offline only, no online CB)

* [AT121bis-e][026][NR1516] RefServCellIndicator CRs (ZTE)

Scope: CR approval for refServCellIndicator (avoid rediscussion next meeting). Chair : Please make clear interoperability statement.

Intended outcome: In-Principle-Agreed CRs

Deadline: EOM (offline only, no online CB)

Added W2 Tuesday

* [Post121bis-e][030][MCE] LS out 2 UL TX Switching (NTT Docomo)

Scope: Ask Questions to RAN1 and/or RAN4 on all aspects required to resolve FFS’es related to outcome of and discussion on R2-2304473, and potential additional uncertainty found during this discussion if any. Can also ask to verify the agreement if needed.

Intended outcome: Approved LS out

Deadline: Short (can start before EOM).

# 1 Opening of the meeting

RAN WG2 meeting 121 bis electronic has full decision power, and decisions do not need to be ratified at other RAN WG2 meeting (beyond the usual CR decision coordination between bis-meetings and ordinary meetings).

## 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 meeting server instead. Inbox/Drafts folder is used for meeting offline discussions.

## 1.3 Other

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

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

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

# 2 General

## 2.1 Approval of the agenda

[R2-2302400](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302400.zip) Agenda for RAN2#121bis-e Chairman agenda

* [000] Approved

## 2.2 Approval of the report of the previous meeting

[R2-2302401](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302401.zip) RAN2#121 Meeting Report MCC report

* [000] Approved

## 2.3 Reporting from other meetings

## 2.4 Instructions

Focus for current meeting

- RAN2 121bis-e has a full agenda, as usual limited by the TU planning. It is expected to focus on Rel-18. It will be up to Session chairs to prioritize maintenance topics. In general, parts of Rel-17 that are still somewhat immature, corrections with potential significant impact and incoming email discussions should be treated. It is also recognized that the time between meetings may be short and TS version availability may be an issue for some maintenance topics. At next meeting RAN2 122, maintenance will be prioritized, as usual.

Tdoc limitations

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

- Assigned summary rapporteur input of the summary.

- Email / offline discussions outcomes by discussion rapporteur,

- WI rapporteurs input for WI planning etc,

- TS rapporteur input for TS maintenance

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

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

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

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

[R2-2302402](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302402.zip) RAN2 Handbook MCC discussion Late

* [000] Noted

## 2.5 Others

[R2-2303634](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303634.zip) Recommendations for RAN1 RRC Parameter Preparation Ericsson discussion Rel-18 TEI18

Treated first by email [000]

* [000] Noted

[000] Chair: The document has an attachment that RAN1 uses and plans to use for Rel-18 RRC parameters. This is an invitation from proponent to review and check this, in preparation for Rel-18 late phases. Please provide review comments if you have any,

[000] Chair: It is proposed here to capture the following in Chair notes: RAN2 acknowledges the use “Recommendations for RAN1 RRC Parameter Preparation” ([R1-2202913](http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202913.zip)) in the RAN1 work on Rel-18 RAN1 Parameter lists. Please comment if you would like, whether RAN2 should make such statement.

[000] Nokia: Overall these are very good recommendations/clarifications to RAN1 and we support the initiative - thanks to Ericsson for good proposals!

That said, we do have some small comments to pages 10 and 13:

- Slide 10 (default values): We would prefer to be stricter about “default values”: In general, RAN1 should NOT try to create default values in hopes of reducing RAN2 signalling overhead – default values should only be used if truly necessary. In our understanding the slide 10 already tries to say this, but the message could be even clearer. The reason why this matters is that RAN1 trying to pre-maturely optimize RAN2 signalling can easily create unnecessary complications that can be better resolved in RAN2.

Proposal: Request RAN1 to avoid using default values (unless it is absolutely necessary).

- Slide 13 (use of lists): Here it would perhaps help that RAN1 should only tell RAN2 whether the list is something where the number of entries can often change after being signalled (which would mean it might become AddModRelease-list), and how many entries are envisioned at maximum (as the slide already suggests). We understand the intent to “help” RAN2 by suggesting AddMod-list, but it would often be better if RAN1 focuses on telling **how** the list is used instead of the signalling structure. Then RAN2 can do the rest of the signalling details (this is already part of page 15).

Proposal: Request RAN1 to avoid speculating on use of AddMod-Lists (focus should be on explaining how the lists is used or how often it is expected to be modified).

[000] Lenovo: Basically, we agree with chairman’s proposal to capture the statement in chair notes. In addition we have a comment to slide 7, column E (“RAN2 Parent IE”) and F (“RAN2 ASN. Name”). We don’t recall that we have ever filled them out after ASN.1 code review. Therefore, we suggest to capture in the chair notes that RAN2 does not intend to fill out both columns.

[000] Qualcomm Incorporated: We support the overall direction of those recommendations are trying to achieve. One comment from our side is about the recommendation for column L (page 16 of R1-2202913). It looks like the recommendation text “*cases where the NW has not yet provided a (UE-specific) configurationI*”.is referring to the default configurations as RAN2 captures in section 9 of RRC specification. Our understanding however that RAN1 has been asking for default values assumed when a RRC message configures a feature, but a given UE configuration field is omitted in the RRC message (we agree with Nokia above that in many cases RAN1 is trying to reduce RRC signalling in those cases).

[000] Intel: we are ok with the Chair’s proposal to capture in Chair note. We have some comments as follows.

-     We are ok to reuse Rel-17 template for Rel-18 as well. However, what we struggled is that RAN1 didn’t complete all the items to fill in. We think RAN2 can also take same approach as what RAN2 use for UE capability work i.e. only RRC parameters RAN1 provided all required information should be implemented (except the part RAN1 explicitly ask RAN2 to decide).

-     Regarding “up to RAN2”, RAN2 struggled a lot especially in Rel-17 feMIMO. One of reasons why RAN1 left to RAN2 is because there is no consensus which option to choose. In order to work effectively, RAN1 and RAN2 should assume that RAN1 leaves it to RAN2 because it is purely signaling issue i.e. there is no critical issues from physical layer operation point of view. In addition, if RAN1 were to leave it to RAN2, further explanation with the explicit LS should be prepared with the potential options.

-     We agree with Lenovo that Column E and F  are not necessary. Instead, we see more value to parent IE that RAN1 expects as Ericsson proposed for column M in R1-2202913. We would prefer to have a separate column for it (e.g. “potential parent/high level IE”) than merging with column M.

-     slide 12, we agree with the intention, i.e. xxxCommon is used only if the parameter is already required during initial access or in IDLE/INACTIVE. It would be good to change the name to “Required for initial access or IDLE/INACTIVE” in order to avoid confusion.

-     We also agree with Tero’s comment that we should strongly discourage use of the default configuration (especially as RAN1 tends to use them as signalling optimization) and the corresponding Tero’s proposal.

[000] Apple: We agree with Lenovo and others on the intention to NOT fill columns E/F in RAN2. And strongly support the direction proposed so far in RAN2 in avoiding using the default values unless absolutely necessary.

- The additional comment we have is on Slide 9: We do not think the column J is a copy/paste of a field description as RAN1 seem to think. We feel RAN2 needs to evaluate the wording of column J and should be ready to make changes to align with the way field descriptions are written in RAN2 specs. RAN2 is the expert on drafting the field description, and while RAN1 may provide an aligned text, it is not always the case, and RAN2 is a better judge of understanding (and if needed resolving an ambiguity) before adding the content from column J into the field description. Might need to consider info from column P, or even take the wording from column P to draft the correct field description text.

[000] Nokia2: For the point raised by Apple on column J: Agree that RAN2 is the ultimate authority and can still decide what goes into the field description (i.e. it need not be only column J), but we thoughts it would be good if RAN1 tried to provide a meaningful field description. It need not be perfect and RAN2 can still modify it, but steering RAN1 towards the direction of trying to explain their intent more is beneficial for all. So RAN1 should attempt to make column J as a “field description”, with the understanding that RAN2 can still modify it if seen necessary. To be concrete, this is one example of how the slide 9 text could be amended (in red – naturally we are open on the exact wording): “The text in Column J should be such that RAN2 could copy it into the specification as a starting point for the RRC field description.”

[000] vivo: For default value, we are fine to have  it from signalling saving point of view, however  we should restrict in RAN1 excel that  the default value only be used when the IE was not configured before by network, i.e.( no first configuration). If the IE is absent in next configuration, RAN2 can discuss the “need code” for the IE by RAN2, i.e., “need M”, “need N”, “need R” or using the default value.

- For UE specific and cell specific column, we think that it is also better to have group specific type.  RAN1 should also tell us.

[000] CATT:  We support Chairman’s proposal to capture the statement in Chair notes. Besides that, we have the following comments.

- Regarding the procedure of RAN1 LS on RRC parameter list, we recommend RAN1 should put all the RRC parameters of all WIs in one LS in each meeting. In previous releases, sometimes RAN1 provide separate LS for certain WI besides the RRC parameter list, which may cause conflict on some parameters when RAN2 implementation. Thus, it’s better to capture the recommendation that RAN1 put all the RRC parameters of all WIs in one LS in each meeting, so that RAN2 can make the implementation on a whole picture to avoid some confliction and missing some parameters.

- For Columns M/N, we think there has some confusion. In Column N, "cell-specific" is set only if the parameter is already required during initial access or in IDLE/INACTIVE. For example, if a parameter is per cell/TRP in Column M, but it is not a “common” IE. Thus should Column N be set “UE-specific”? which is a little bit strange. Maybe we need to find some way to solve this confusion, e.g., change the name of Column N as “Whether Required for initial access or IDLE/INACTIVE” or use either Column M or Column N as baseline if some confusion may cause between Column M and Column N.

- For Column J, we agree with Nokia that the description in Column J can be a starting point. RAN2 can evaluate the wording and make change if possible.

- For Columns E/F, we share the same view as RAN1 that leave E&F columns empty. We think it’s better RAN2 to fill them after ASN.1 frozen and send to other WGs. It helps other WGs to track the implementation of RRC parameters and further coordination on RRC parameters.

ONLINE DISCUSSION W2

- Ericsson think that it is sufficient to collect the agreeable comments as agreements into Chair notes. Think no LS is needed.

- Lenovo has a comment on last point from CATT (E/F), we should not overload ourselves. Ericsson think that indeed we did such work in the past, but not for Rel-17. CATT think this is really helpful and we need the coordination.

- CATT think we should send an LS.

- Nokia think it is ok to not send LS and think we can also decide details case by case when needed.

- Chair: will continue offline, consolidate the comments.

OFFLINE Consolidated Comments

[000] RAN 2 review: 8 interested companies provided comments to R1-2202913/R2-2303634:

[000] In addition to comments on the contents, the following two comments were recorded:

1: Procedure: One Company expressed appreciation for the procedure of gathering all RRC parameters in a common multi-WI Spreadsheet, and pointed out that it contributes to high quality.

2: RAN1 vs RAN2: One Company pointed out that for some WIs in the previous release, Incomplete specification and extensive use of “up to RAN2” in the parameter’s spreadsheet caused a lot of work in RAN2, and RAN2 delegates first had to reconstruct RAN1 decision status, exchange LSes etc, in order to create a baseline for decisions. If RAN1 leaves decision to RAN2 because RAN1 couldn’t decide, it would be helpful to provide a description of the status in RAN1. If RAN1 leaves decision to RAN2 because it is purely signaling with no critical issues from physical layer operation point of view, such information is also helpful. One such WI was Rel-17 MIMO.

Comments to R1-2202913/R2-2303634:

Slide 7, To what extent the columns E/F are used/populated in the end, may be decided case-by-case in RAN2.

Slide 9, The text in Column J should be such that RAN2 could copy it into the specification as a starting point for the RRC field description.

Slide 10, Column L: Default values are in practice less important and may cause some work. RAN1 should not spend time to specify default values for the purpose of signaling overhead optimization.

Slide 11, Column M: One company pointed out that RAN1 suggested parent IE provides a lot of information to RAN2 on the RAN1 intention, is thus important, and could be put in a separate column.

Slide 12, To avoid ambiguity, it is suggested to rename column N to “Required for initial access or IDLE/INACTIVE”

Slide 13, on Lists, it would be helpful to RAN2 that RAN1 provides explanations how a list is used, e.g. how / how often it is expected to be modified, rather than just suggesting ASN1 implementation, which RAN2 likely anyway would re-analyze (e.g. using AddMod-List or similar).

* [000] With comments for consideration, RAN2 acknowledges the use “Recommendations for RAN1 RRC Parameter Preparation” (R1-2202913/R2-2303634) in the RAN1 work on Rel-18 RAN1 Parameter lists.

# 3 Incoming liaisons

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

# 4 EUTRA Rel-17 and earlier

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

## 4.1 EUTRA corrections Rel-17 and earlier

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: RP-211340)

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

(LTE TEI17)

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

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP-200293); REL-15 and Earlier NB-IoT WIs are in scope but not listed explicitly (long list).

(LTE\_eMTC5-Core; LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP192875;), REL-15 and Earlier eMTC WIs are in scope but not listed explicitly (long list).

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed: June 20; WID: RP-190921);

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

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

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

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

This Agenda Item is treated in the EUTRA Breakout session

[R2-2303818](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303818.zip) Correction on QoE configuration release Google CR Rel-15 36.331 15.20.0 4925 - F LTE\_QMC\_Streaming-Core

[R2-2303821](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303821.zip) Correction on QoE configuration release Google Inc. CR Rel-16 36.331 16.12.0 4926 - A LTE\_QMC\_Streaming-Core

[R2-2303822](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303822.zip) Correction on QoE configuration release Google CR Rel-17 36.331 17.4.0 4927 - A LTE\_QMC\_Streaming-Core

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

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

Tdoc Limitation: 2 tdocs

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

[R2-2303040](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303040.zip) Indication of GSO-NGSO cell type in SIB1 Qualcomm Incorporated CR Rel-17 36.331 17.4.0 4922 - F LTE\_NBIOT\_eMTC\_NTN

### 4.2.1 General and Stage 2 corrections

LSs and Stage 2 corrections.

[R2-2302422](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302422.zip) LS on UE capability signalling for IoT-NTN (R3-230951; contact: Vodafone) RAN3 LS in Rel-17 LTE\_NBIOT\_eMTC\_NTN To:SA2, RAN2 Cc:CT1

[R2-2302677](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302677.zip) Stage-2 Corrections for Supporting Emergency Calls in IoT NTN MediaTek Inc CR Rel-17 36.300 17.4.0 1382 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2303832](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303832.zip) Correction for R17 IoT NTN Ericsson CR Rel-17 36.300 17.4.0 1383 - F LTE\_NBIOT\_eMTC\_NTN

### 4.2.2 UP corrections

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

[R2-2302530](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302530.zip) MAC correction on TDD support for IoT NTN OPPO CR Rel-17 36.321 17.4.0 1560 2 F LTE\_NBIOT\_eMTC\_NTN R2-2300358

[R2-2303665](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303665.zip) Clarification on Kmac definition ZTE Corporation, Sanechips discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2303980](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303980.zip) Corrections on MAC procedure upon validity timer expiry for IoT NTN Nokia, Nokia Shanghai Bell CR Rel-17 36.321 17.4.0 1565 - F LTE\_NBIOT\_eMTC\_NTN

### 4.2.3 CP corrections

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

[R2-2302676](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302676.zip) Corrections in TS 36.331 for Supporting Emergency Calls in IoT NTN MediaTek Inc. CR Rel-17 36.331 17.4.0 4921 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2303194](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303194.zip) Alignment of NPRACH preamble descriptions with RAN1 specification for IoT-NTN parameters Nokia, Nokia Shanghai Bell discussion

[R2-2303667](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303667.zip) User consent for location info in RLF-Report ZTE Corporation, Sanechips discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2303961](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303961.zip) UE location information in NB-IoT RLF report Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2303981](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303981.zip) CR to 36.331 on T317 and T318 Huawei, HiSilicon CR Rel-17 36.331 17.4.0 4928 - F LTE\_NBIOT\_eMTC\_NTN Revised

[R2-2304082](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304082.zip) CR to 36.331 on T317 and T318 Huawei, HiSilicon CR Rel-17 36.331 17.4.0 4928 1 F LTE\_NBIOT\_eMTC\_NTN [R2-2303981](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303981.zip)

[R2-2304136](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304136.zip) On reporting location in NB-IoT RLF Report Samsung R&D Institute UK discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

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

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

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

## 4.4 Positioning corrections Rel-16 and earlier

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

This Agenda Item will be handled by email.

[R2-2302625](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302625.zip) Miscellaneous Corrections on Section 4 Functionality of Protocol in TS 37.355 CATT CR Rel-15 37.355 15.3.0 0419 - F LCS\_LTE\_acc\_enh

[R2-2302626](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302626.zip) Miscellaneous Corrections on Section 4 Functionality of Protocol in TS 37.355 CATT CR Rel-16 37.355 16.10.0 0420 - A LCS\_LTE\_acc\_enh

[R2-2302627](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302627.zip) Miscellaneous Corrections on Section 4 Functionality of Protocol in TS 37.355 CATT CR Rel-17 37.355 17.4.0 0421 - A LCS\_LTE\_acc\_enh

[R2-2302628](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302628.zip) Miscellaneous Corrections on Section 5 LPP Procedures in TS 37.355 CATT CR Rel-15 37.355 15.3.0 0422 - F LCS\_LTE\_acc\_enh

[R2-2302629](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302629.zip) Miscellaneous Corrections on Section 5 LPP Procedures in TS 37.355 CATT CR Rel-16 37.355 16.10.0 0423 - A LCS\_LTE\_acc\_enh

[R2-2302630](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302630.zip) Miscellaneous Corrections on Section 5 LPP Procedures in TS 37.355 CATT CR Rel-17 37.355 17.4.0 0424 - A LCS\_LTE\_acc\_enh

[R2-2302631](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302631.zip) Corrections on the descriptions in Positioning methods IEs CATT CR Rel-15 37.355 15.3.0 0425 - F LCS\_LTE\_acc\_enh

[R2-2302632](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302632.zip) Corrections on the descriptions in Positioning methods IEs CATT CR Rel-16 37.355 16.10.0 0426 - A LCS\_LTE\_acc\_enh

[R2-2302633](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302633.zip) Corrections on the descriptions in Positioning methods IEs CATT CR Rel-17 37.355 17.4.0 0427 - A LCS\_LTE\_acc\_enh

[R2-2302634](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302634.zip) Corrections on positioning assistance data transfer CATT CR Rel-15 37.355 15.3.0 0428 - F LCS\_LTE\_acc\_enh

[R2-2302635](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302635.zip) Corrections on positioning assistance data transfer CATT CR Rel-16 37.355 16.10.0 0429 - A LCS\_LTE\_acc\_enh

[R2-2302636](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302636.zip) Corrections on positioning assistance data transfer CATT CR Rel-17 37.355 17.4.0 0430 - A LCS\_LTE\_acc\_enh

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 8 tdocs in total for all sub agenda items.

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

## 5.1 Common

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(NR TEI16).

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

### 5.1.1 Stage 2 and Organisational

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

* [AT121bis-e][001][NR1516] Stage 2 and RRC 0 (Huawei)

Scope: Treat R2-2304108, R2-2304109, R2-2304110, After online: R2-2303465, R2-2303466, R2-2303279, R2-2303280, R2-2303281.   
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

*Chair: Note due to collision in offline allocations, this offline only considered the Stage-2 parts in the end.*

* [001] The change from SIB1 to SIB1 information is agreeable, CRs are provided for next meeting with considering more stage 2 correction merged if any

[R2-2304108](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304108.zip) Correction to information delivered in Handover Request message Huawei, HiSilicon CR Rel-15 38.300 15.14.0 0662 - F NR\_newRAT-Core

[R2-2304109](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304109.zip) Correction to information delivered in Handover Request message Huawei, HiSilicon CR Rel-16 38.300 16.12.0 0663 - A NR\_newRAT-Core

[R2-2304110](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304110.zip) Correction to information delivered in Handover Request message Huawei, HiSilicon CR Rel-17 38.300 17.4.0 0664 - A NR\_newRAT-Core

3 tdocs moved from 3.1.2

* [001] 3 CRs Postponed

### 5.1.2 User Plane corrections

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

#### 5.1.2.1 MAC

[R2-2303854](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303854.zip) Clarification on handling of DCI for the deactivated configured grant Samsung CR Rel-15 38.321 15.13.0 1599 - F NR\_newRAT-Core

[R2-2303855](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303855.zip) Clarification on handling of DCI for the deactivated configured grant Samsung CR Rel-16 38.321 16.11.0 1600 - A NR\_newRAT-Core

[R2-2303856](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303856.zip) Clarification on handling of DCI for the deactivated configured grant Samsung CR Rel-17 38.321 17.4.0 1601 - A NR\_newRAT-Core

#### 5.1.2.2 RLC PDCP SDAP BAP

#### 5.1.2.3 Other

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

### 5.1.3 Control Plane corrections

#### 5.1.3.1 NR RRC

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

Online first

[Post121][041][NR1617] need code for secondary DRX group – treat online first

[R2-2303464](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303464.zip) Summary of need code for secondary DRX group Huawei, HiSilicon discussion Rel-16 TEI16

* To support option 3 in Rel-16 and also later releases, that is, change the need code of the field *secondaryDRX-GroupConfig-r16* to “Need S” with clarification for NW behavior in field description.

[R2-2303465](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303465.zip) Correction on the need code for secondary DRX group Huawei, HiSilicon CR Rel-16 38.331 16.12.0 4012 - F TEI16

[R2-2303466](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303466.zip) Correction on the need code for secondary DRX group Huawei, HiSilicon CR Rel-17 38.331 17.4.0 4013 - A TEI16

- HW indicate that comments were received offline, CRs need update

Offline CR approval (HW)

* [AT121bis-e][025][NR1516] NeedCode Secondary DRX CRs (Huawei)

Scope: CR approval for Correction on the need code for secondary DRX group (avoid rediscussion next meeting). Chair : Please make a clear interoperability statement.

Intended outcome: In-Principle-Agreed CRs

Deadline: EOM (offline only, no online CB)

refServCellIndicator – treat online first

[R2-2303278](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303278.zip) Further consideration on refSerCellIndicator ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

Postponed last meeting to allow further checking, correction may have compatiblity consequences.

DISCUSSION

- QC are ok with the proposal.

- Apple are ok to go for Need M, option 1 . Think a slight rewording is needed.

- MTK are also ok with need M, but think the CR need rewording.

- HW has concerns .. prefer the other option (O2). Prefer to not allow delta configuration, as this allows all in-field implementations.

- Samsung think we should not change Rel-15.

- ZTE would be ok with O2 if UEs require this,

- MTK/Apple/QC are ok with O2.

- Nokia support O2

- Ericsson think we should have same solution for all reelases for need code issues. Intel agrees.

* Go with Option 2, from Rel-15

[R2-2303279](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303279.zip) Corrections on refServCellIndicator ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.21.0 3999 - F NR\_newRAT-Core

[R2-2303280](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303280.zip) Corrections on refServCellIndicator ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.12.0 4000 - A NR\_newRAT-Core

[R2-2303281](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303281.zip) Corrections on refServCellIndicator ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 4001 - A NR\_newRAT-Core

Revise CRs offline (ZTE)

* [AT121bis-e][026][NR1516] RefServCellIndicator CRs (ZTE)

Scope: CR approval for refServCellIndicator (avoid rediscussion next meeting). Chair : Please make clear interoperability statement.

Intended outcome: In-Principle-Agreed CRs

Deadline: EOM (offline only, no online CB)

Offline first

* [AT121bis-e][002][NR1516] RRC 1 (Ericsson)

Scope: Treat R2-2303635, R2-2303636, R2-2303282, R2-2303283, R2-2303284, R2-2303285, R2-2302881, R2-2302882, R2-2304093, R2-2304094, R2-2304095, R2-230, R2-230, R2-230, R2-230,  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

SIB and PosSIB mappings to SI message – high level decision done at previous meeting – Discussion on CRs was postponed

[R2-2303635](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303635.zip) SIB and PosSIB mappings to SI message Ericsson, MediaTek Inc. CR Rel-16 38.331 16.12.0 3895 1 F NR\_newRAT-Core, NR\_pos-Core R2-2301452

[R2-2303636](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303636.zip) SIB and PosSIB mappings to SI message Ericsson, MediaTek Inc. CR Rel-17 38.331 17.4.0 3894 1 F NR\_newRAT-Core, NR\_pos-Core R2-2301451

* [002] both revised

Drb-ContinueROHC

[R2-2303282](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303282.zip) Clarification on drb-ContinueROHC ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

* [002] noted
* [002] RAN2 confirms that during PDCP re-establishment, when pdcp-Config is not included and Need M works, the child Need N field drb-ContinueROHC is treated as “not present” and the UE shall reset ROHC protocol (i.e. the UE does not store the drb-ContinueROHC field for future use).
* [002] 38331 Rapporteur to provide text proposal for 38331 Annex A (Guidelines) on absence of “parent fields” to cover also Need N fields in a 38331 Rapp CR to next meeting.

[R2-2303283](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303283.zip) Clarification on handling of Need N fields ZTE Corporation, Sanechips CR Rel-15 38.331 15.21.0 4002 - F NR\_newRAT-Core

[R2-2303284](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303284.zip) Clarification on handling of Need N fields ZTE Corporation, Sanechips CR Rel-16 38.331 16.12.0 4003 - A NR\_newRAT-Core

[R2-2303285](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303285.zip) Clarification on handling of Need N fields ZTE Corporation, Sanechips CR Rel-17 38.331 17.4.0 4004 - A NR\_newRAT-Core

* [002] 3 CRs not pursued

RLC-Config

[R2-2302881](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302881.zip) Correction on Need code of IE RLC-Config Intel Corporation CR Rel-16 38.331 16.12.0 3969 - F NR\_IIOT-Core

[R2-2302882](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302882.zip) Correction on Need code of IE RLC-Config Intel Corporation CR Rel-17 38.331 17.4.0 3970 - F NR\_IIOT-Core, NR\_NTN\_solutions-Core

* [002] both revised

Coreset0 for PSCell

[R2-2304093](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304093.zip) Clarification on presence of Coreset0 for PSCell Ericsson CR Rel-15 38.331 15.21.0 4054 - F NR\_newRAT-Core

[R2-2304094](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304094.zip) Clarification on presence of Coreset0 for PSCell Ericsson CR Rel-16 38.331 16.12.0 4055 - A NR\_newRAT-Core

[R2-2304095](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2304095.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2304095.zip) Clarification on presence of Coreset0 for PSCell Ericsson CR Rel-17 38.331 17.4.0 4056 - A NR\_newRAT-Core

- [002] Rap Ph1: Continue discussion in ph2

* [AT121bis-e][003][NR1516] RRC 2 (Samsung)

Scope: Treat R2-2302595, R2-2302596, R2-2302597, R2-2302666, R2-2302667, R2-23083106, R2-2303107, R2-2304096, R2-2304091, R2-2304092, R2-2302771, R2-2304132, R2-2304140, R2-2303871, R2-2303872  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

[R2-2304438](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2304438.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304438.zip) Report of [AT121bis-e][003][NR1516] RRC 2 (Samsung) Samsung

* [003] Noted, agreements reflected below

Recommended bitrate query

[R2-2302595](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302595.zip) 38.331\_R15\_CR (Cat F)\_Corrections to recommended bit rate query Samsung Electronics Co., Ltd CR Rel-15 38.331 15.21.0 3950 - F NR\_newRAT-Core

[R2-2302596](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302596.zip) 38.331\_R16\_CR (Cat A)\_Corrections to recommended bit rate query Samsung Electronics Co., Ltd CR Rel-16 38.331 16.12.0 3951 - A NR\_newRAT-Core

[R2-2302597](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302597.zip) 38.331\_R17\_CR (Cat A)\_Corrections to recommended bit rate query Samsung Electronics Co., Ltd CR Rel-17 38.331 17.4.0 3952 - A NR\_newRAT-Core

* [003] 3 CRs not pursued

NR-U

[R2-2302666](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302666.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302666.zip) Clarifications on CG Parameters in NR-U vivo CR Rel-16 38.331 16.12.0 3958 - F NR\_unlic-Core

[R2-2302667](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302667.zip) Clarifications on CG Parameters in NR-U vivo CR Rel-17 38.331 17.4.0 3959 - A NR\_unlic-Core

* [003] revised

R2-2304535 Clarifications on CG Parameters in NR-U vivo CR Rel-16 38.331 16.12.0 3958 1 F NR\_unlic-Core

R2-2304536 Clarifications on CG Parameters in NR-U vivo CR Rel-17 38.331 17.4.0 3959 1 A NR\_unlic-Core

* [003] Contents is agreeable, Both merged with RRC Rapporteur CRs (Rel-16, Rel-17)

[R2-2303106](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2303106.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2303106.zip) Clarification on RSSI measurement frequency Samsung R&D Institute India CR Rel-16 38.331 16.12.0 3983 - F NR\_unlic-Core

[R2-2303107](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303107.zip) Clarification on RSSI measurement frequency Samsung R&D Institute India CR Rel-17 38.331 17.4.0 3984 - A NR\_unlic-Core

* [003] both revised

R2-2304504 Clarification on RSSI measurement frequency Samsung R&D Institute India CR Rel-16 38.331 16.12.0 3983 1 F NR\_unlic-Core

R2-2304505 Clarification on RSSI measurement frequency Samsung R&D Institute India CR Rel-17 38.331 17.4.0 3984 1 A NR\_unlic-Core

* [003] both in-principle-agreed

Security

[R2-2304096](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304096.zip) Clarification on the update of security algorithms Ericsson discussion Rel-15 NR\_newRAT-Core

* [003] noted
* [003] RAN2 confirms that the security algorithms at the UE can only be changed with reconfiguration with sync (for both SRBs and DRBs).

R2-2304090 Clarification on nas-SecurityParamFromNR field description Ericsson CR Rel-15 38.331 15.21.0 4051 - F NR\_newRAT-Core

[R2-2304091](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304091.zip) Clarification on nas-SecurityParamFromNR field description Ericsson CR Rel-16 38.331 16.12.0 4052 - A NR\_newRAT-Core

[R2-2304092](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2304092.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2304092.zip) Clarification on nas-SecurityParamFromNR field description Ericsson CR Rel-17 38.331 17.4.0 4053 - A NR\_newRAT-Core

* [003] 3 CRs revised

R2-2304440 Clarification on nas-SecurityParamFromNR field description Ericsson, Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.21.0 4051 1 F NR\_newRAT-Core

R2-2304441 Clarification on nas-SecurityParamFromNR field description Ericsson, Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.12.0 4052 1 A NR\_newRAT-Core

R2-2304442 Clarification on nas-SecurityParamFromNR field description Ericsson, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 4053 1 A NR\_newRAT-Core

* [003] 3 CRs Agreed in principle

DCCA misc

[R2-2302771](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302771.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

* [003] Noted, topic is postponed

[R2-2304138](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304138.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.12.0 3990 2 F NR\_newRAT-Core, TEI16 [R2-2304133](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304133.zip)

[R2-2304140](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304140.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3991 2 A NR\_newRAT-Core, TEI16 [R2-2304135](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304135.zip)

* [003] both postponed

[R2-2303871](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303871.zip) Correction on reconfiguration including T316 Lenovo CR Rel-16 38.331 16.12.0 4029 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2303872](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303872.zip) Correction on reconfiguration including T316 Lenovo CR Rel-17 38.331 17.4.0 4030 - F LTE\_NR\_DC\_CA\_enh-Core

* [003] both not pursued

Withdrawn or revised

[R2-2303150](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303150.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.12.0 3990 - F NR\_newRAT-Core, TEI16 Revised

[R2-2303151](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303151.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3991 - A NR\_newRAT-Core, TEI16 Revised

[R2-2304133](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304133.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.12.0 3990 1 F NR\_newRAT-Core, TEI16 [R2-2303150](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303150.zip) Revised

[R2-2304135](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304135.zip) CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3991 1 A NR\_newRAT-Core, TEI16 [R2-2303151](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303151.zip) Revised

R2-2302772 CSI-RS resource coordination in NR-DC Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3963 - F NR\_newRAT-Core, TEI17 Withdrawn

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

* [AT121bis-e][004][NR1516] UE cap (ZTE)

Scope: Treat R2-2302437 (if needed), R2-2303660, R2-2303877, R2-2303878, R2-2303879, R2-2303880, R2-2303881, R2-2304161, R2-2304162, R2-2304163, R2-2304164, R2-2304165, R2-2304166  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

R2-2304448 Summary of offline [AT121bis-e][004][NR1516] UE cap (ZTE) ZTE, Sanechips

W2 Monday ON-LINE DISCUSSION on P7 only

- HW think there is a prerequisite in the current TS the UE is not allowed to support intra-FR NR-DC only (UE need to support also inter-FR .. ). Ericsson agrees.

- Nokia agrees on the intention, but the TS is already clear. Apple agrees. HW think the prerequisite was added earlier for backwards compatibility.

* RAN2 confirms that the ca-parametersNRDC and asyncNRDC-r16 can also be used for the intra-FR NR-DC BC only case (without supporting any FR1+FR2 NR-DC BC). FFS whether there should be TS change, this aspect is postponed.
* [004] Other agreements reflected below

[R2-2302437](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302437.zip) LS on clarification on impact of SRS antenna switching for TDD-FDD band combinations (R4-2303633; contact: Huawei) RAN4 LS in Rel-15 NR\_newRAT-Core To:RAN1 Cc:RAN2

RAN2 is CCed. Proposed Noted

* [004] Noted

[R2-2303660](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303660.zip) Handling of SRS Tx switching capability Ericsson discussion

* [004] RAN2 confirms the following behaviour for the parameters txSwitchImpactToRx and txSwitchWithAnotherBand in srs-TxSwitch:

- Bands with UL that impact each other define a group (i.e. SRS TX switching on any of the cells will impact UL on all the cells in the group). All the band entries in the group will signal the same group identifier in txSwitchWithAnotherBand. The first-listed band entry number in the group shall be used as identifier for the group. An UL group with only one band entry is not signaled in txSwitchWithAnotherBand.

- For bands where the DL is impacted by an UL group with a single band entry, txSwitchImpactToRx shall indicate the band entry number of that UL band. For bands where the DL is impacted by an UL group with more than one band entry, txSwitchImpactToRx shall point to the UL group using the group identifier number (as defined by txSwitchWithAnotherBand).

* [004] Can discuss whether (and how) the spec change is needed in the next meeting.

[R2-2303877](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303877.zip) Miscellaneous Correction on UE capability-R15 ZTE Corporation, Sanechips CR Rel-15 38.306 15.20.0 0895 - F NR\_newRAT-Core

[R2-2303878](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303878.zip) Miscellaneous Correction on UE capability-R16 ZTE Corporation, Sanechips CR Rel-16 38.306 16.12.0 0896 - A NR\_newRAT-Core

[R2-2303879](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303879.zip) Miscellaneous Correction on UE capability-R17 ZTE Corporation, Sanechips CR Rel-17 38.306 17.4.0 0897 - A NR\_newRAT-Core

* [004] revised

[R2-2303880](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303880.zip) Correction on PDCCH Blind Detection-R16 ZTE Corporation, Sanechips CR Rel-16 38.306 16.12.0 0898 - F NR\_L1enh\_URLLC

[R2-2303881](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303881.zip) Correction on PDCCH Blind Detection-R17 ZTE Corporation, Sanechips CR Rel-17 38.306 17.4.0 0899 - A NR\_L1enh\_URLLC

* [004] both in-principle-agreed

[R2-2304161](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2304161.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304161.zip) Correction on pusch-RepetitionTypeB capability Huawei, HiSilicon CR Rel-16 38.306 16.12.0 0901 - F NR\_L1enh\_URLLC-Core

[R2-2304162](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304162.zip) Correction on pusch-RepetitionTypeB capability Huawei, HiSilicon CR Rel-17 38.306 17.4.0 0902 - A NR\_L1enh\_URLLC-Core

[R2-2304163](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304163.zip) Correction on pusch-RepetitionTypeB capability Huawei, HiSilicon CR Rel-16 38.331 16.12.0 4059 - F NR\_L1enh\_URLLC-Core

[R2-2304164](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304164.zip) Correction on pusch-RepetitionTypeB capability Huawei, HiSilicon CR Rel-17 38.331 17.4.0 4060 - A NR\_L1enh\_URLLC-Core

* [004] 4 CRs revised

[R2-2304165](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304165.zip) Corrections on NR-DC capabilities Huawei, HiSilicon CR Rel-16 38.306 16.12.0 0903 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2304166](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304166.zip) Corrections on NR-DC capabilities Huawei, HiSilicon CR Rel-17 38.306 17.4.0 0904 - A LTE\_NR\_DC\_CA\_enh-Core

* Both postponed (see online discussion above)

#### 5.1.3.3 Other

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

## 5.2 NR V2X

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

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

[R2-2302415](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302415.zip) Reply LS to RAN4 on PSFCH configured power with multiple resource pools (R1-2302231; contac: LGE) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN4 Cc:RAN2

[R2-2302574](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302574.zip) Left issue on SL CG clear during MAC-reset OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2302799](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302799.zip) Correction to sl-MaxTransPower Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3965 - F NR\_SL\_enh-Core

*Moved from 6.10.2*

[R2-2303157](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303157.zip) Correction on PSFCH configured power for NR sidelink CATT CR Rel-16 38.331 16.12.0 3993 - F 5G\_V2X\_NRSL-Core

[R2-2303158](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303158.zip) Correction on PSFCH configured power for NR sidelink CATT CR Rel-17 38.331 17.4.0 3994 - A 5G\_V2X\_NRSL-Core

[R2-2303210](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303210.zip) Discussion on clear of SL CG upon MAC reset Xiaomi discussion

[R2-2303211](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303211.zip) Correction on PSFCH reception for NR sidelink Xiaomi CR Rel-16 38.321 16.11.0 1585 - F 5G\_V2X\_NRSL-Core

[R2-2303212](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303212.zip) Correction on PSFCH reception for NR sidelink Xiaomi CR Rel-17 38.321 17.4.0 1586 - A 5G\_V2X\_NRSL-Core

[R2-2303632](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303632.zip) TS 38.331 correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-16 38.331 16.12.0 4018 - F 5G\_V2X\_NRSL-Core Revised

[R2-2303633](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303633.zip) TS 38.331 correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-17 38.331 17.4.0 4019 - A 5G\_V2X\_NRSL-Core Revised

R2-2303742 Summary on user plane corrections for NR V2X LG Electronics France discussion 5G\_V2X\_NRSL-Core Late

[R2-2303906](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303906.zip) Correction on field description for transmission power ZTE Corporation, Sanechips CR Rel-16 38.331 16.12.0 4031 - F 5G\_V2X\_NRSL-Core Late

[R2-2303909](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303909.zip) Correction on field description for transmission power ZTE Corporation, Sanechips CR Rel-17 38.331 17.4.0 4034 - F NR\_SL\_enh-Core

*Moved from 6.10.2*

[R2-2303912](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303912.zip) Clarification on sl-MaxTransPower vivo CR Rel-16 38.331 16.12.0 4047 - F 5G\_V2X\_NRSL-Core

[R2-2303913](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303913.zip) Clarification on sl-MaxTransPower vivo CR Rel-17 38.331 17.4.0 4046 - A 5G\_V2X\_NRSL-Core

[R2-2303915](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303915.zip) Corrections on MAC reset regarding configured sidelink grant ASUSTeK, Huawei, HiSilicon, Samsung, vivo CR Rel-16 38.321 16.11.0 1602 - F 5G\_V2X\_NRSL-Core

[R2-2303928](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303928.zip) Corrections on MAC reset regarding configured sidelink grant ASUSTeK, Huawei, HiSilicon, Samsung, vivo CR Rel-17 38.321 17.4.0 1605 - A 5G\_V2X\_NRSL-Core

[R2-2304078](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304078.zip) Correction for Measurement Event Triggering Criteria Sharp CR Rel-16 38.331 16.12.0 4049 - F 5G\_V2X\_NRSL-Core

*Moved from 5.1.3.1*

[R2-2304144](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304144.zip) TS 38.331 correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-16 38.331 16.12.0 4018 1 F 5G\_V2X\_NRSL-Core [R2-2303632](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303632.zip)

[R2-2304145](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304145.zip) TS 38.331 correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-17 38.331 17.4.0 4019 1 A 5G\_V2X\_NRSL-Core [R2-2303633](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303633.zip)

[R2-2304148](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304148.zip) Summary on control plan corrections for NR V2X Huawei, HiSilicon discussion Rel-16 5G\_V2X\_NRSL-Core Late

## 5.3 NR Positioning Support

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

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

(NR TEI16 Positioning)

This agenda item will be handled by email.

### 5.3.1 General and Stage 2 corrections

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

[R2-2303030](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303030.zip) Yaw and APC clarifications for SSR positioning Swift Navigation, Ericsson discussion Rel-16 NR\_pos-Core

R2-2303032 Zero Yaw and APC clarifications for SSR positioning Swift Navigation draftCR Rel-16 38.305 16.8.0 F NR\_pos-Core Withdrawn

[R2-2303658](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303658.zip) GNSS PCO and PCV error analysis u-blox AG discussion Rel-16 38.305

[R2-2304044](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304044.zip) LS on SSR orbit and clock correction reference for BDS in 3GPP LPP Ericsson LS out Rel-16 To:RTCM SC 104

[R2-2304045](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304045.zip) Report from [Post121][401][POS] LS to RTCM on SSR orbit and clock correction reference for BDS (Ericsson) Ericsson report Rel-16

### 5.3.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

[R2-2302985](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302985.zip) Correction on SI update for posSIB-r16 Huawei, HiSilicon CR Rel-16 38.331 16.12.0 3974 - F NR\_pos-Core

[R2-2302986](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302986.zip) Correction on SI update for posSIB-r17 Huawei, HiSilicon CR Rel-17 38.331 17.4.0 3975 - F NR\_pos-Core, NR\_redcap\_enh-Core

### 5.3.3 LPP corrections

[R2-2302989](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302989.zip) Correction to nr-DL-TDOA-AdditionalMeasurements-r16 Huawei, HiSilicon CR Rel-16 37.355 16.10.0 0434 - F NR\_pos-Core

[R2-2302990](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302990.zip) Correction to nr-DL-TDOA-AdditionalMeasurements-r17 Huawei, HiSilicon CR Rel-17 37.355 17.4.0 0435 - A NR\_pos-Core

[R2-2304046](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304046.zip) Correction of Location Server behaviour Ericsson CR Rel-15 37.355 15.3.0 0438 - F NR\_newRAT-Core

[R2-2304047](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304047.zip) Correction of Location Server behaviour Ericsson CR Rel-16 37.355 16.10.0 0439 - A NR\_newRAT-Core

[R2-2304048](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304048.zip) Correction of Location Server behaviour Ericsson CR Rel-17 37.355 17.4.0 0440 - A NR\_newRAT-Core

### 5.3.4 MAC corrections

[R2-2303501](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303501.zip) Correction on DL MAC CE for SP Positioning SRS ZTE Corporation CR Rel-16 38.321 16.11.0 1590 - F NR\_pos-Core

[R2-2303502](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303502.zip) Correction on DL MAC CE for SP Positioning SRS ZTE Corporation CR Rel-17 38.321 17.4.0 1591 - A NR\_pos-Core

## 5.4 SON MDT support for NR

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

### 5.4.1 General and stage-2 corrections

Including incoming LSs, TS 37.320 corrections

### 5.4.2 TS 38.314 corrections

### 5.4.3 RRC corrections

[R2-2302942](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302942.zip) Clarification on RLF Cause Samsung discussion NR\_SON\_MDT-Core

[R2-2302943](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302943.zip) Clarification on RLF cause (Option 1) Samsung CR Rel-16 38.331 16.12.0 3972 - F NR\_SON\_MDT-Core

[R2-2302952](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302952.zip) Clarification on RLF cause (Option 2) Samsung CR Rel-16 38.331 16.12.0 3973 - F NR\_SON\_MDT-Core

[R2-2303447](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303447.zip) Correction on logging RLM resources in the RLF report Ericsson, Qualcomm discussion Rel-16 38.331 NR\_SON\_MDT-Core

[R2-2303448](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303448.zip) Correction on logging RLM resources in the RLF report Ericsson, Qualcomm discussion Rel-17 38.331 NR\_SON\_MDT-Core

[R2-2303449](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303449.zip) Correction to the setting of locationInfo in MeasResultSCG-Failure Ericsson discussion Rel-16 38.331 NR\_SON\_MDT-Core

[R2-2303450](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303450.zip) Correction to the setting of locationInfo in MeasResultSCG-Failure Ericsson discussion Rel-17 38.331 NR\_SON\_MDT-Core

[R2-2303897](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303897.zip) Discussion on location configuration for SON and MDT features Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

# 6 NR Rel-17

## 6.1 Common

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Tdoc Limitation: 10 tdocs

### 6.1.1 Stage 2 and Organisational

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

No Action

[R2-2302453](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302453.zip) LS on Mapping of F1-C IP addresses in the IAB inter-CU topology adaptation and backhaul RLF recovery procedures (S3-231603; contact: Qualcomm) SA3 LS in Rel-17 TEI17 To:RAN3 Cc:RAN2

* [000] Noted

[R2-2302454](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302454.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302454.zip) LS on updated Rel-17 RAN1 UE features lists for NR after RAN1#112 (R1-2302026; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-17 NR\_feMIMO, NR\_ext\_to\_71GHz, NR\_IIOT\_URLLC\_enh, NR\_NTN\_solutions, NR\_pos\_enh, NR\_redcap, NR\_UE\_pow\_sav\_enh, NR\_cov\_enh, NR\_IAB\_enh, NR\_SL\_enh, NR\_MBS, NR\_DSS, LTE\_NR\_DC\_enh2, NR\_DL1024QAM\_FR1, NR\_RF\_FR1\_enh, NR\_SmallData\_INACTIVE, TEI17, NR\_newRAT To:RAN2 Cc:RAN4

RRC cap is Already covered. LPP cap is addressed in the Pos Session

* [000] Noted

[R2-2302427](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302427.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302427.zip) LS on Rel-17 RAN4 UE feature list for NR (R4-2300820; contact: CMCC) RAN4 LS in Rel-17 FS\_NR\_duplex\_evo To:RAN2 Cc:RAN1

RRC cap is Already Covered. LPP cap is addressed in the Pos Session

* [000] Noted

[R2-2302456](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302456.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302456.zip) Reply LS to RAN2 on further questions on feMIMO RRC parameters (R1-2302249; cintact: ZTE) RAN1 LS in Rel-17 NR\_FeMIMO-Core To:RAN2

Already covered.

* [000] Noted

[R2-2302416](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302416.zip) Reply LS on PDCCH skipping (R1-2302151; contact: MediaTek) RAN1 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2

R1 followed R2 LS, no further action in R2.

* [000] Noted

### 6.1.2 User Plane corrections

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

R2-2302659 Correction on separate initial BWP configuration for SDT initialization vivo, Guangdong Genius draftCR Rel-17 38.321 17.4.0 F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core Withdrawn

[R2-2302660](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302660.zip) Correction on SDT with separate initial BWP vivo, Huawei, HiSilicon, Guangdong Genius draftCR Rel-17 38.321 17.4.0 F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core R2-2301962

[R2-2303136](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303136.zip) Corrections on SDT using NCD-SSB for RedCap Huawei, HiSilicon CR Rel-17 38.321 17.4.0 1584 - F NR\_redcap-Core

[R2-2303686](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303686.zip) Correction on HARQ buffer flush at SCG deactivation Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.4.0 1592 - F LTE\_NR\_DC\_enh2-Core

[R2-2303756](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303756.zip) CR for Miscellaneous Corrections for SDT operation LG Electronics Inc. CR Rel-17 38.321 17.4.0 1596 - F NR\_redcap-Core Withdrawn

[R2-2303916](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303916.zip) Corrections on interruption of random access procedure for SpCell BFR ASUSTeK CR Rel-17 38.321 17.4.0 1603 - F NR\_FeMIMO-Core

[R2-2304057](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304057.zip) CR for Miscellaneous Corrections for initial BWP LG Electronics. CR Rel-17 38.321 17.4.0 1608 - F NR\_redcap-Core

### 6.1.3 Control Plane corrections

#### 6.1.3.1 NR RRC

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

Redcap

* [AT121bis-e][005][NR17] CP Redcap Corrections (Huawei)

Scope: Treat R2-2302529, R2-2303133, R2-2303134, R2-2303286, R2-2303287, R2-2304012, R2-2303616, R2-2303135,   
Ph1: Determine agreeable parts, and online CB if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

[R2-2302529](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302529.zip) Clarification on offset for cell specific RSRP thresholds for 1Rx Redcap UE OPPO CR Rel-17 38.331 17.4.0 3776 2 F NR\_redcap-Core R2-2300157

* [005] not pursued

[R2-2303133](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303133.zip) Corrections on initial BWP configuration for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.4.0 3988 - F NR\_redcap-Core

* [005] RAN2 understand the intended UE behavior as “If the controlResourceSetZero filed is absent in case of the RedCap-specific initial BWP not including CD-SSB and the entire CORESET#0, a RedCap UE uses the one provided in the PDCCH-ConfigCommon of the initial DL BWP that includes CORESET#0”, but the first change in R2-2303133 is not needed.
* [005] The second change in R2-2303133 is agreeable, Revised

[R2-2303134](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303134.zip) Corrections on NCD-SSB for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.4.0 3989 - F NR\_redcap-Core

* [005] The first change in R2-2303134 is not pursued.
* [005] The second change and third change in R2-2303134 are agreeable, Revised

[R2-2303286](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303286.zip) Clarification on cell barring indications for RedCap UEs ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

* [005] Postponed

[R2-2303287](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303287.zip) Correction on cellBarredRedCap2Rx ZTE Corporation, Sanechips CR Rel-17 38.331 17.4.0 4005 - F NR\_redcap-Core

* [005] R2-2303287 is not pursued.
* [005] Postpone the discussion on how to determine whether a RedCap UE is 1Rx or 2Rx.

[R2-2304012](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304012.zip) Issues on dedicated configuration of RedCap-specific initial BWP LG Electronics Inc. discussion Rel-17 NR\_redcap-Core

* [005] Not pursued

[R2-2303616](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303616.zip) Corrections for eDRX in RRC\_INACTIVE Ericsson CR Rel-17 38.304 17.4.0 0334 - F NR\_UE\_pow\_sav\_enh-Core, NR\_redcap-Core Late

* [005] the first and fourth changes are not pursued
* [005] In RRC\_INACTIVE state, if used eDRX value configured by upper layers is longer than 1024 radio frames, outside CN PTW, the UE shall use the i\_s for RRC\_INACTIVE state (as opposed to inside CN PTW, where the UE uses i\_s for IDLE)
* [006] Agree the CR in R2-2303616 with following change: move the new text outside the description of N, to a new paragraph.

[R2-2303135](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303135.zip) Corrections on RRM relaxation for RedCap Huawei, HiSilicon, OPPO CR Rel-17 38.304 17.4.0 0331 - F NR\_redcap-Core

Moved here from 6.1.3.3

?

Pow Sav & DCCA

* [AT121bis-e][006][NR17] CP PowSav and DCCA Corrections (CATT)

Scope: Treat R2-2302541, R2-2302800, R2-2303617, R2-2303467, R2-2302553, R2-2302554, R2-2302658, R2-2303662  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

[R2-2302541](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302541.zip) RRC correction on BFD/RLM relaxation OPPO CR Rel-17 38.331 17.4.0 3947 - F NR\_UE\_pow\_sav\_enh-Core

* [006] Postponed. Postpone the discussion on R2-2302541 CR to give more time companies to check if it is really needed and, if yes, where the text should be located (stage 2, RRC, which clause).

[R2-2302800](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302800.zip) Correction on RLM/BFD relaxation state reporting Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3966 - F NR\_UE\_pow\_sav\_enh-Core

* [006] not pursued ?
* [006] Postpone the discussion on the scenario brought up in R2-2302800 CR to give more time companies to check with RAN4 if it is relevant (i.e. RAN4 definition of “No DRX”).

[R2-2303617](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303617.zip) RLM and BFD relaxation when SCG is deactivated Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core Late

* [006] Noted.
* [006] RAN2 confirms that when the RLM/BFD measurement state is relaxed and the SCG is deactivated the UE triggers UAI message to report that the RLM/BFD relaxation state is not relaxed. No specification change is needed.

[R2-2303467](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303467.zip) Clarification on SubgroupID for UE\_ID based subgrouping in RRC\_INACTIVE state Huawei, HiSilicon CR Rel-17 38.304 17.4.0 0332 - F NR\_UE\_pow\_sav\_enh-Core

Moved here from 6.1.3.3

* [006] not pursued ?

[R2-2302658](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302658.zip) Correction on measCyclePSCell used during SCG deactivation vivo, Ericsson, Guangdong Genius draftCR Rel-17 38.331 17.4.0 F NR\_UE\_pow\_sav\_enh-Core, LTE\_NR\_DC\_enh2-Core

* [006] The text proposed in R2-2302658 CR is not pursued. Instead the following text is agreed to be added in the field description of the *measCyclePSCell* parameter: “The network always configures *measCyclePSCell* for the *measObjectNR* associated with the PSCell if *bfd-and-RLM* is set to *true* and the SCG is deactivated”

[R2-2302553](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302553.zip) Discussion on MN Handover While the SCG is Deactivated CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2300859

[R2-2303662](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303662.zip) MN Handover with deactivated SCG Ericsson discussion

* [006] both noted
* [006] RAN2 agrees that the reconfiguration with sync for SCG will always be configured upon MN handover occurs in (NG) EN-DC, regardless whether SCG is deactivated or not

[R2-2302554](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302554.zip) Correction on scg-State in RRCConnectionReconfiguration including the mobilityControlInfo CATT CR Rel-17 36.331 17.4.0 4920 - F LTE\_NR\_DC\_enh2-Core

* [006] Agree the change from the CR R2-2302554 with modification: remove description about *scg-stat*e under the condition of “if the *RRCConnectionReconfiguration* does not include the *nr-SecondaryCellGroupConfig*” in the section of 5.3.5.4 in 36.331 spec.
* [006] revised

UP to 71GHz

* [AT121bis-e][007][NR17] RRC UpTo71GHz Corrections (Nokia)

Scope: Treat R2-2302405, R2-2302408, R2-2302691, R2-2302773, R2-2302842, R2-2303057, R2-2303125, R2-2303472, R2-2303557, R2-2303917, R2-2303918, R2-2303942, R2-2304125.  
Ph1: Determine agreeable parts, identify online CB points. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

[R2-2302405](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302405.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302405.zip) LS to RAN2 on reference subcarrier spacing for FR2-2 (R1- 2302185; contact: Nokia) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN2

* [007] noted

[R2-2302408](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302408.zip) LS to RAN2 on K2 indication for multi-PUSCH scheduling (R1-2302144; contact: LGE) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN2

* [007] noted

[R2-2302691](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302691.zip) Miscellaneous corrections for Ext71GHz Huawei, HiSilicon CR Rel-17 38.331 17.4.0 3961 - F NR\_ext\_to\_71GHz-Core

* [007] revised

[R2-2302842](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302842.zip) Correction to RRC for 71 GHz on channel occupancy duration Ericsson CR Rel-17 38.331 17.4.0 3968 - F NR\_ext\_to\_71GHz-Core

* [007] revised

[R2-2303472](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303472.zip) Discussion on RAN1 LS R1-2302144 Ericsson discussion Rel-17 NR\_ext\_to\_71GHz-Core

* [007] noted

[R2-2303557](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303557.zip) Correction to RRC for 71 GHz on multi-PUSCH Ericsson CR Rel-17 38.331 17.4.0 4016 - F NR\_ext\_to\_71GHz-Core

* [007] Progress with modified RAN1 wording “for all n if any two consecutive PUSCHs are non-contiguous” and include in the CR also correction from LG (R2-2303942) regarding field description of *pusch-AllocationList*
* [007] revised

[R2-2303942](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303942.zip) Clarification on K2 indication for multi-PUSCH scheduling LG Electronics Inc. CR Rel-17 38.331 17.4.0 4043 - F NR\_ext\_to\_71GHz-Core

* [007] merged with CR based on R2-2303557

[R2-2304125](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304125.zip) Clarification for configured grant periodicity Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3964 1 F NR\_ext\_to\_71GHz-Core [R2-2302773](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302773.zip)

* [007] revised

[R2-2303917](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303917.zip) Correction K2 on multi-PUSCH scheduling ASUSTeK CR Rel-17 38.331 17.4.0 4035 - F NR\_ext\_to\_71GHz-Core

[R2-2303918](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303918.zip) Correction on condition for extendedK2 ASUSTeK CR Rel-17 38.331 17.4.0 4036 - F NR\_ext\_to\_71GHz-Core

[R2-2303057](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303057.zip) The restriction addition for SCS in CO-DurationPerCell NEC Corporation CR Rel-17 38.331 17.4.0 3982 - F NR\_ext\_to\_71GHz-Core

[R2-2303125](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303125.zip) CO-Durations Reference subcarrier spacing for FR2-2 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3986 - F NR\_ext\_to\_71GHz-Core

* [007] 4 CRs not pursued

Revised or withdrawn before treatment

[R2-2302773](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302773.zip) Clarification for configured grant periodicity Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3964 - F NR\_ext\_to\_71GHz-Core Revised

MUSIM

* [AT121bis-e][008][NR17] RRC MUSIM Corrections (vivo)

Scope: Treat R2-2303262, R2-2303661, R2-2303770, R2-2303771, R2-2303831, R2-2303876, R2-2303195  
Ph1: Determine agreeable parts, identify online CB if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

R2-2304517 Report of [AT121bis-e][008][NR17] RRC MUSIM Corrections(vivo) vivo

* [008] Noted, agreements reflected below

[R2-2303262](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303262.zip) Discussion on MUSIM gap handling during handover vivo discussion Rel-17

[R2-2303661](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303661.zip) Handling of MUSIM Scheduling Gap During Handover Ericsson discussion

[R2-2303831](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303831.zip) Further discussion on handling of aperiodic MUSIM gap Samsung Electronics Austria discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2303876](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303876.zip) Further Clarification on the MUSIM Gap Handling During Handover ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2303195](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303195.zip) On aperiodic MUSIM gap handling during handover Nokia, Nokia Shanghai Bell discussion

* [008] 5 discussion tdocs noted
* [008] how to handle MUSIM gap during handover is left to NW and UE implementation. No specification change is needed.

[R2-2303770](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303770.zip) Discussion on CHO with T346g in MUSIM Lenovo discussion Rel-17 38.331 LTE\_NR\_MUSIM-Core

* [008] Noted, not agreed

[R2-2303771](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303771.zip) Correction on CHO execution while T346g is running Lenovo CR Rel-17 38.331 17.4.0 4026 - F LTE\_NR\_MUSIM-Core

* [008] not pursued

Misc

* [AT121bis-e][009][NR17] RRC Misc Corrections (ZTE)

Scope: Treat R2-2303021, R2-2303346, R2-2302457, R2-2303679, R2-2303814, R2-2304087  
Ph1: Determine agreeable parts. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

R2-2304485 Report of [AT121bis-e][009][NR17] RRC Misc Corrections (ZTE) ZTE Coprporation

W2 Monday Online DISCUSSION P3 only

- ZTE proposes to have an LS for this.

- Xiaomi think RAN1 has not discussed this before, think LS is needed.

- Nokia think the conseq if we don’t do anything that TRS based fast SCell activation and unified TCI state doesn’t work, and we can specify that.

- Xiaomi think LS can just ask if this can work or not (not ask for more work).

- Nokia think if we send an LS the we should CC R4. Xiaomi ok.

* Send LS to ask RAN1: Whether the Reference Signal used for fast scell activation is allowed to be configured with the *qcl-info* that is indicated by TCI-state from the *dl-OrJointTCI-stateList,* by current TS
* [009] other agreements reflected below

feMIMO

[R2-2303021](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303021.zip) Clarification to TS 38.331 on Enhanced BFR MAC CE for feMIMO CATT CR Rel-17 38.331 17.4.0 3977 - F NR\_FeMIMO-Core

* [009] in-principle-agreed, with the following modifiation in both changes: “included by the UE in MAC CE for BFR (see TS 38.321 [3] and TS 38.213 [13], clause 6)

[R2-2303346](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303346.zip) Corrections on the unified TCI-state configuration for 38.331 Xiaomi CR Rel-17 38.331 17.4.0 4008 - F NR\_FeMIMO-Core

* [009] not pursued

QoE

[R2-2302457](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302457.zip) Reply LS on questions on RAN visible QoE (R3-226778; contact: Huawei) RAN3 LS in Rel-17 NR\_QoE-Core To:RAN2, SA4

* [009] Noted

[R2-2303679](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303679.zip) Correction CR for QoE measurements in NR Ericsson CR Rel-17 38.331 17.4.0 4022 - F NR\_QoE-Core

* [009] not pursued

[R2-2303814](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303814.zip) Correction on application layer measurement configuration resume Google CR Rel-17 38.331 17.4.0 4028 - F NR\_QoE-Core

* [009] not pursued

TEI corrections

[R2-2304087](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304087.zip) Corrections to on-demand SI request ZTE Corporation, Sanechips CR Rel-17 38.331 17.4.0 4050 - F TEI17

* [009] in-principle-agreed with the following modification: To correct the PosSChedulingInfo to the *posSchedulingInfoList* on top of the current change.

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

Intraband ENDC

Treat Online first

[R2-2302727](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302727.zip) Summary of email discussion [Post121][043][NR17] Intraband ENDC UE cap Qualcomm Incorporated report Rel-16 TEI16

- Proposal is to go for solution in section 2.4, send an LS to R4 and wait for feedback.

* noted

[R2-2302728](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302728.zip) DRAFT Reply LS on intraBandENDC-Support Qualcomm Incorporated LS out Rel-16 TEI16 To:RAN4

- MTK agrees but think we should mention early implementation option in the LS. QC support to mention this. We need to agree from which release. QC HW Nokia proposes / are ok with from Rel-15. MTK and ZTE also ok. ZTE want to ensure that this is only for BCs where there is difference UL DL support. QC confirms that this is the intention.

- vivo think the table is good, wonder if we should have it also in the TS.

- QC think we don’t need to attach the CRs, can work further.

* R2 agrees that early implementation from Rel-15 shall be supported
* LS is revised to additional capture the agreement on early impl, final version is approved unseen in R2-2304431

[R2-2304167](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304167.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.4.0 0905 - F TEI17

[R2-2304168](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304168.zip) Introduction of intra-band EN-DC contiguous capability for UL Huawei, HiSilicon, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 4061 - F TEI17

- Apple wonder if we attach the CRs as endorsed or an example. Apple think they should be an example only.

- Ericsson agree that we should not endorse, the wording need to be polished. CATT also has some comments on the wording.

- ZTE agrees some updates are needed.

- Ericsson think we need to work on how to support early impl.

* Postpone (expect to revise/agree when reply from R4 has been received)

General

* [AT121bis-e][010][NR17] UE Caps Misc Corrections (Samsung)

Scope: Treat R2-2303882, R2-2302435, R2-2302941, R2-2302575, R2-2302774, R2-2302887  
Ph1: Determine agreeable parts, prepare online CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

R2-2304486 [AT121bis-e][010][NR17] UE Caps Misc Corrections (Samsung) Samsung

* [010] Noted, agreements reflected below

[R2-2303882](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303882.zip) Miscellaneous Correction on UE capability-R17 ZTE Corporation,Sanechips CR Rel-17 38.306 17.4.0 0900 - F NR\_feMIMO, NR\_pos\_enh

* [010] revised

R2-2304452 Miscellaneous Correction on UE capability-R17 ZTE Corporation,Sanechips CR Rel-17 38.306 17.4.0 0900 1 F NR\_feMIMO, NR\_pos\_enh

* [010] in-principle-agreed

ue-PowerClassPerBandPerBC

[R2-2302435](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302435.zip) Reply LS on clarification for ue-PowerClassPerBandPerBC-r17 (R4 16-8) (R4-2303630; contact: Samsung) RAN4 LS in Rel-17 NR\_RF\_FR1\_enh To:RAN2

* [010] Noted

[R2-2302941](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302941.zip) Clarification on ue-PowerClassPerBandPerBC Samsung CR Rel-17 38.306 17.4.0 0892 - F NR\_RF\_FR1\_enh

* [010] Postponed

[R2-2302575](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302575.zip) Discussion on ue-PowerClassPerBandPerBC-r17 OPPO discussion Rel-17 NR\_RF\_FR1\_enh

* [010] Postponed. Will not send LS to R4

TEI - MaxCCPerFRGap

[R2-2302774](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302774.zip) Clarification to description of independentGapConfig-maxCC-r17 [MaxCCPerFRGap] Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.4.0 0889 - F TEI17

- [010] Nokia indicate the intention to come back at a later time for further discussion.

* [010] Not pursued

CovEnh

[R2-2302887](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302887.zip) Clarifying band combination meaning for DMRS Bundling over TBoMS Ericsson CR Rel-17 38.306 17.4.0 0890 - F NR\_cov\_enh-Core

* [010] revised

R2-2304482 Clarifying band combination meaning for DMRS Bundling over TBoMS Ericsson CR Rel-17 38.306 17.4.0 0890 - F NR\_cov\_enh-Core

* [010] in-principle-agreed

BW related

* [AT121bis-e][011][NR17] UE Caps BW related Corrections (Qualcomm)

Scope: Treat R2-2302436, R2-2302439, R2-2302440, R2-2302577, R2-2302729, R2-2303398, R2-2304169, R2-2303883  
Ph1: Determine agreeable parts and prepare on-line CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

R2-2304444 Summary of [AT121bis-e][011][NR17] UE Caps BW related Corrections (Qualcomm) Qualcomm Incorporated

W2 Monday DISCUSSION

P2

- Apple observes that we have discussed a cpl of times now, and we should now honour the RAN4 decisions, some signalling at least to address Requirements. QC agrees and think that companies thinking this is not a typical case should consider that these are new things, there are no typical impl.

- Huawei think RAN4 are not the experts on Capability design, and think there can be gains for some particular case, but no common case. Think we don’t need new signalling at all.

- MTK think this is not a typical case, but are ok to follow majority.

- Nokia ok with P2 ok to discuss.

- Ericsson has seen examples where this is beneficial, think this is also beneficial from processing capacity point of view.

- CATT are ok to discuss P2 further.

- TMO think that RAN2 should decide on this as RAN2 is the deciding group on UE cap signalling.

- Apple think also that FBG5 is not finished.

- Chair Comment: There are opposing comments, but there is currently no consensus in RAN2 to challenge the RAN4 decisions. These topics have split responsibility between RAN4 and RAN2. Companies had chances to object in RAN4. Should not continue to discuss the fundamental usefulness of RAN4 decisions if we cannot agree there is an issue.

P3

- Huawei think the new signalling Is not only about network implementing new BCS45. It will also implement legacy BCS. NBC issues will occur iof the network cannot decode the new signalling. Apple think the network can filter the request, and the UE will report accordingly. Nokia agrees with Huawei.

- MTK has concerns on the cap filter. Not sure this will handle the NBC concern,

- QC think the backwards compatibility issues can be handled.

- Nokia think this is about BCS5, would like to stick with BCS4/FBG4 as is. QC agrees.

- CATT think there may be forward compatibility issue, and cap filter may not be workable.

- TMO think there are some mechanisms for BC.

* Postpone (topic 2/3),

Allow/recommend companies to discuss offline until RAN2#122:

UE capability signalling overhead for existing UE implementations.

Additional UE capability signalling overhead caused by FBG5 and BCS4/5.

Potential signalling overhead reduction gain in light of above.

Any other relevant aspect.

* FFS whether there is any legacy network implementation for FBG5 or BCS4/5 that must be taken into account in further discussion.

Topic 1. Fallback group relation

[R2-2302436](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302436.zip) Reply LS on new contiguous BW classes for legacy networks (R4-2303631; contact: Nokia) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core, NR\_unlic-Core To:RAN2

* Noted

Topic 2. FR2 FBG5 CA BW classes

[R2-2302440](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302440.zip) LS on signaling for FR2 FBG5 CA BW classes (R4-2303689; contact: Apple) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

* noted

[R2-2302577](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302577.zip) Discussion on maximum aggregated bandwidth OPPO discussion Rel-17 NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core

[R2-2303398](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303398.zip) On servicing RAN4 request on aggregate BW signaling for FBG5 CA BW classes Apple Inc, Ericsson Inc discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

Moved from 3

[R2-2304169](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304169.zip) Discussion on UE signaling for the maximum aggregated bandwidth Huawei, HiSilicon discussion Rel-17 TEI17

Addresses also next topic

[R2-2303883](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303883.zip) Consideration on the FBG5 Signaling ZTE Corporation, Sanechips discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

* 4 tdocs noted

Topic 3. Maximum aggregated bandwidth for FR1 CA

[R2-2302729](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302729.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302729.zip) Maximum aggregated bandwidth for FR1 CA Qualcomm Incorporated discussion Rel-17 NR\_BCS4-Cor

* noted

[R2-2302439](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302439.zip) LS on UE signalling for the maximum aggregated bandwidth for FR1 CA (R4-2303685; contact: Qualcomm) RAN4 LS in Rel-17 NR\_BCS4-Core To:RAN2

* noted

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

Slicing

* [AT121bis-e][012][NR17] Slicing Corrections (Nokia)

Scope: Treat R2-2303900, R2-2302861, R2-2302862, R2-2302983, R2-2303637, R2-2303638, R2-2303740, R2-2304039, R2-2304041  
Ph1: Determine agreeable parts and prepare on-line CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

R2-2304524 Report from [AT121bis-e][012][NR17] Slicing Corrections (Nokia) Nokia

[R2-2303900](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303900.zip) Discussion on remaining issues for RAN Slicing Huawei, HiSilicon discussion Rel-17 NR\_slice-Core

Moved from 6.1.3.1

[R2-2302861](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302861.zip) Relation between slice-based reselection information provided in dedicated signalling and SIB16 Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_slice-Core

[R2-2302983](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302983.zip) Discussion on reselection priorities in dedicated and broadcast signalling CATT discussion Rel-17 NR\_slice-Core

[R2-2303637](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303637.zip) Slice-based re-selection based on dedicated signalling only Ericsson discussion Rel-17 NR\_slice-Core

[R2-2303740](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303740.zip) Essentiality of SIB16 in RAN Slicing Apple, OPPO discussion Rel-17 NR\_slice-Core

[R2-2304041](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304041.zip) Availability of NSAG-Frequency pair present only in dedicated signaling Samsung R&D Institute India discussion

* [012] 5 discussion tdocs Noted
* [012] When an NSAG-Frequency pair is configured in dedicated signalling, but is not available in the SIB16, the UE doesn’t use the given NSAG-Frequency pair for deriving slice-based cell reselection priorities in the cell.
* [012] RAN2 confirms if both FeatureCombination and RA-PrioritizationSliceInfo are configured, the UE applies the NSAG ID with highest NSAG priority associated with FeatureCombination and/or RA-PrioritizationSliceInfo for RACH resource selection and/or RACH prioritization.

[R2-2302862](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302862.zip) Addition of slice-based cell re-selection parameters Nokia, Nokia Shanghai Bell CR Rel-17 38.304 17.4.0 0330 - F NR\_slice-Core

* [012] in-principle-agreed

R2-2304525

R2-2304526

R2-2304527

[R2-2303638](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303638.zip) Slice-based re-selection based on dedicated signalling only Ericsson CR Rel-17 38.304 17.4.0 0336 - F NR\_slice-Core

[R2-2304039](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304039.zip) Correction on handling on slice availabiliy in SIB16 in TS 38.304 CATT CR Rel-17 38.304 17.4.0 0337 - F NR\_slice-Core

IAB

* [AT121bis-e][013][NR17] IAB Corrections (Huawei)

Scope: Treat R2-2303479, R2-2303003, R2-2303480, R2-2304097  
Ph1: Determine agreeable parts and on-line CB points if any. Ph2: For agreeable parts, if any, reflect these in agreeable CRs.

Intended outcome: Report, If applicable: In-Principle-Agreed CRs

Deadline: Schedule 1

R2-2304215 Summary of [AT121bis-e][013][NR17] IAB Corrections Huawei, HiSilicon

W2 Monday online DISCUSSION only on P1a

- Ericsson think indeed there is a mis-understandings in the current description text. Think we should consult RAN1. Think there is no protocol issue.

- Samsung think we need high quality change if any at all. Both proposals seems to make the text less clear. Think that neither the lack of mentioning time resource not the mention of freq resource is a blocking issue. Prefer to do nothing.

- Ericsson would be ok to refer to just “resources”.

- HW agrees there is no functional issue, QC agrees, and think the current text is not wrong.

* P1a is postponed (can address at next meeting, if needed).
* [013] other agreements reflected below

Stage-2 - Online First

Moved here from 6.1.1

[R2-2303204](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303204.zip) Report from email discussion [Post121][042][NR17] Stage 2 description for IAB beam management and power control (Lenovo) Lenovo report Rel-17 NR\_IAB\_enh-Core

* noted

[R2-2303205](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303205.zip) Introduction of stage 2 description for IAB resource management Lenovo, Ericsson CR Rel-17 38.300 17.4.0 0641 1 F NR\_IAB\_enh-Core R2-2301896

- Huawei think the title should be changed introduction should be correction.

- Nokia are ok, but think a definition of Soft RB Set is needed. ZTE think we can also add reference to R1 TS.

* It is agreed to have a CR, but it is postponed to next meeting. Revision should take into account the comments.

UE caps

Moved here from 6.1.3.2

[R2-2303479](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303479.zip) Corrections on the eIAB related capabilities Huawei, HiSilicon CR Rel-17 38.306 17.4.0 0893 - F NR\_IAB\_enh-Core

* [013] in-principle-agreed

User plane

Moved here from 6.1.2

[R2-2303003](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303003.zip) Correction to TS 38.321 on IAB beam management and DL Tx power adjustment ZTE, Sanechips CR Rel-17 38.321 17.4.0 1582 - F NR\_IAB\_enh-Core

[R2-2304097](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304097.zip) Correction to restricted resources for eIAB Ericsson CR Rel-17 38.321 17.4.0 1609 - F NR\_IAB\_enh-Core

* 2 CRs postponed, see online discussion on P1a above

[R2-2303480](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303480.zip) Correction to MAC reset for eIAB Huawei, HiSilicon CR Rel-17 38.321 17.4.0 1589 - F NR\_IAB\_enh-Core

* [013] agreed in-principle

## 6.2 NR Multicast

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

Tdoc Limitation: 2 tdocs

### 6.2.1 Organizational and Stage-2 corrections

Incoming LSs, general issues, corrections to TS 38.300.

[R2-2302406](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302406.zip) Reply LS on SPS configuration for unicast and multicast (R1- 2302209; contact: ASUSTek) RAN1 LS in Rel-17 NR\_MBS-Core To:RAN2

[R2-2303126](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303126.zip) General MBS CR to 38.300 Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.4.0 0651 - F NR\_MBS-Core

R2-2303618 Clarifications for MBS broadcast service continuity Ericsson CR Rel-17 38.300 17.4.0 0657 - F NR\_MBS-Core Withdrawn

[R2-2304154](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304154.zip) MBS broadcast and unicast reception Ericsson discussion Rel-17 NR\_MBS-Core Late

### 6.2.2 CP corrections

Including corrections to TS 38.331, TS 38.304, TS 38.306.

R2-2302520 Remaining issues on Supporting MBS in SNPN CATT discussion NR\_MBS-Core Withdrawn

R2-2302521 Corrections to TS 38.331 CATT CR Rel-17 38.331 17.4.0 3945 - F NR\_MBS-Core Withdrawn

[R2-2302522](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302522.zip) Remaining issues on Supporting MBS in SNPN CATT, CBN discussion NR\_MBS-Core

[R2-2302523](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302523.zip) Corrections to TS 38.331 CATT, CBN CR Rel-17 38.331 17.4.0 3946 - F NR\_MBS-Core

[R2-2302590](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302590.zip) Correction to PDSCH Aggregation of MBS SPS vivo CR Rel-17 38.331 17.4.0 3948 - F NR\_MBS-Core

[R2-2302823](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302823.zip) CP Corrections for MBS Samsung Electronics Co., Ltd CR Rel-17 38.331 17.4.0 3967 - F NR\_MBS-Core

[R2-2303031](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303031.zip) Clarificaition on Key Refresh in MBS vivo CR Rel-17 38.331 17.4.0 3978 - F NR\_MBS-Core Late

[R2-2303127](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303127.zip) General MBS CR to 38.331 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3987 - D NR\_MBS-Core

[R2-2303552](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303552.zip) Misc correction to TS 38.331 on NR MBS ZTE, Sanechips CR Rel-17 38.331 17.4.0 4015 - F NR\_MBS-Core

[R2-2303619](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303619.zip) Corrections for MBS with eDRX and MICO mode Ericsson CR Rel-17 38.304 17.4.0 0335 - F NR\_MBS-Core Late

[R2-2303919](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303919.zip) Corrections on MBS SPS configuration ASUSTeK CR Rel-17 38.331 17.4.0 4037 - F NR\_MBS-Core

[R2-2303966](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303966.zip) Miscellabeous RRC corrections for MBS Huawei, CBN, HiSilicon CR Rel-17 38.331 17.4.0 4044 - F NR\_MBS-Core

[R2-2303967](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303967.zip) Discussion on the remainning MBS issues Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2304146](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304146.zip) Editorial modification to TS 38.331 on NR MBS MediaTek inc. CR Rel-17 38.331 17.4.0 4058 - D NR\_MBS\_enh-Core Withdrawn

[R2-2304170](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304170.zip) Editorial modification to TS 38.331 on NR MBS MediaTek inc. CR Rel-17 38.331 17.4.0 4062 - D NR\_MBS-Core

### 6.2.3 UP corrections

Including corrections to MAC, PDCP, RLC and SDAP.

[R2-2302767](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302767.zip) Corrections on cfr-ConfigMulticast and Multicast DRX NEC Corporation, LG Electronics Inc, Nokia, Nokia Shanghai Bell, Samsung CR Rel-17 38.321 17.4.0 1579 - F NR\_MBS-Core

[R2-2302768](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302768.zip) Discussion on the correction for cfr-ConfigMulticast and Multicast DRX NEC Corporation, LG Electronics Inc, Nokia, Nokia Shanghai Bell, Samsung discussion Rel-17 NR\_MBS-Core

[R2-2303067](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303067.zip) UP Corrections for MBS Samsung R&D Institute India CR Rel-17 38.321 17.4.0 1583 - F NR\_MBS-Core

## 6.3 NR IIoT URLLC

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

Tdoc Limitation: 2 tdocs

### 6.3.1 Control Plane

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

### 6.3.2 User Plane

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

[R2-2303920](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303920.zip) Discussion on one-shot HARQ feedback ASUSTeK discussion Rel-17 38.321 NR\_IIOT\_URLLC\_enh-Core

[R2-2303921](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303921.zip) Corrections on DRX for one shot HARQ feedback ASUSTeK, Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.4.0 1604 - F NR\_IIOT\_URLLC\_enh-Core

## 6.4 Small Data enhancements

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

Tdoc Limitation: 2 tdocs

### 6.4.1 User plane common aspects

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

[R2-2302664](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302664.zip) Clarification on RA Resource Selection During CG-SDT vivo CR Rel-17 38.321 17.4.0 1576 - F NR\_SmallData\_INACTIVE-Core Late

[R2-2302988](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302988.zip) Correction to CG-SDT LCH restriction Huawei, HiSilicon CR Rel-17 38.321 17.4.0 1580 - F NR\_SmallData\_INACTIVE-Core

[R2-2303699](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303699.zip) Clarifying HD-FDD CG-SDT Ericsson CR Rel-17 38.321 17.4.0 1594 - F NR\_SmallData\_INACTIVE-Core

[R2-2304179](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304179.zip) Correction to RA-SDT initiation Google Inc. CR Rel-17 38.321 17.4.0 1610 - F NR\_SmallData\_INACTIVE-Core

### 6.4.2 Control plane common aspects

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

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

[R2-2302665](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302665.zip) Correction on UAI Reporting During SDT vivo CR Rel-17 38.331 17.4.0 3957 - F NR\_SmallData\_INACTIVE-Core Late

[R2-2303056](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303056.zip) Correction on the restriction to periodicityExt NEC Corporation CR Rel-17 38.331 17.4.0 3981 - F NR\_SmallData\_INACTIVE-Core

[R2-2303594](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303594.zip) Control plane corrections for SDT Huawei, HiSilicon CR Rel-17 38.331 17.4.0 4017 - F NR\_SmallData\_INACTIVE-Core

[R2-2303687](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303687.zip) Clarification on RRCReject handling with UL data Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.4.0 0658 - F NR\_SmallData\_INACTIVE-Core

[R2-2303688](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303688.zip) Clarification on unknown, unforeseen and erroneous protocol data Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.4.0 1593 - F NR\_SmallData\_INACTIVE-Core

## 6.5 NR Sidelink relay

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

Tdoc Limitation: 3 tdocs

### 6.5.1 General and stage 2 corrections

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

[R2-2303154](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303154.zip) Correction on Direct to Indirect Path Switching CATT CR Rel-17 38.300 17.4.0 0652 - F NR\_SL\_relay-Core

[R2-2303155](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303155.zip) Correction on the PC5 unicast link release in case of indirect to direct path switching CATT CR Rel-17 38.300 17.4.0 0653 - F NR\_SL\_relay-Core

[R2-2303384](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303384.zip) Miscellaneous corrections for Stage 2 NR sidelink relay Apple CR Rel-17 38.300 17.4.0 0656 - F NR\_SL\_relay-Core

[R2-2303858](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303858.zip) Corrections on relay (re)selection ZTE, Sanechips CR Rel-17 38.300 17.4.0 0661 - F NR\_SL\_relay-Core

### 6.5.2 Control plane corrections

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

[R2-2302593](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302593.zip) Corrections to paging monitoring via Relay UE Samsung Electronics Co., Ltd discussion Rel-17 NR\_SL\_relay-Core

[R2-2302594](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302594.zip) 38.331\_CR\_Corrections to paging monitoring via Relay UE Samsung Electronics Co., Ltd CR Rel-17 38.331 17.4.0 3949 - F NR\_SL\_relay-Core

[R2-2303115](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303115.zip) Correction on 38.331 Xiaomi CR Rel-17 38.331 17.4.0 3985 - F NR\_SL\_relay-Core

[R2-2303156](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303156.zip) Correction on Field Description of Common Resource Pool CATT CR Rel-17 38.331 17.4.0 3992 - F NR\_SL\_relay-Core

[R2-2303175](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303175.zip) Miscellaneous corrections to TS 38.331 for SL relay ZTE, Sanechips CR Rel-17 38.331 17.4.0 3996 - F NR\_SL\_relay-Core

[R2-2303176](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303176.zip) Corrections on sorting quantity for Event X1 for SL relay ZTE, Sanechips CR Rel-17 38.331 17.4.0 3997 - F NR\_SL\_relay-Core

[R2-2303337](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303337.zip) Correction on PC5 RLC channel release trigger due to SL RLF vivo CR Rel-17 38.331 17.4.0 4006 - F NR\_SL\_relay-Core

[R2-2303338](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303338.zip) Correction on SRB0 handling when UE is acting as L2 U2N Remote UE vivo CR Rel-17 38.331 17.4.0 4007 - F NR\_SL\_relay-Core

[R2-2303385](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303385.zip) Corrections on UE handling of Layer 2 UE-to-NW relay configurations Apple CR Rel-17 38.331 17.4.0 4009 - F NR\_SL\_relay-Core

[R2-2303386](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303386.zip) Discussion on SRAP configuration in RRCReestablishment Apple discussion Rel-17 NR\_SL\_relay-Core

[R2-2303489](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303489.zip) Clarification on sidelink communication resource configuration used by OoC L2 Remote UE Huawei, HiSilicon CR Rel-17 38.304 17.4.0 0333 - F NR\_SL\_relay-Core

[R2-2303656](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303656.zip) Miscellaneous corrections to 38331 Nokia, Nokia Shanghai Bell draftCR Rel-17 38.331 17.4.0 D NR\_SL\_relay-Core

[R2-2303739](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303739.zip) Correction on L2 U2N Relay Remote UE RRC procedure Philips International B.V. CR Rel-17 38.331 17.4.0 4024 - F NR\_SL\_relay-Core

[R2-2303922](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303922.zip) Correction on role of a L2 U2N Remote UE ASUSTeK CR Rel-17 38.331 17.4.0 4038 - F NR\_SL\_relay-Core

[R2-2303983](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303983.zip) Correction on remote UE’s behavior upon SIB1 reception Xiaomi CR Rel-17 38.331 17.4.0 4045 - F NR\_SL\_relay-Core

[R2-2304066](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304066.zip) Correction on Cell Barring for L2 U2N Remote UE Ericsson España S.A. CR Rel-17 38.331 17.4.0 4048 - F NR\_SL\_relay-Core

### 6.5.3 User plane corrections

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

R2-2302974 Corrections on SRAP for SL relay NEC Corporation CR Rel-17 38.351 17.4.0 0019 - F NR\_SL\_relay-Core Withdrawn

[R2-2303490](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303490.zip) Clarification on the services expected from SRAP layer Huawei, HiSilicon CR Rel-17 38.323 17.4.0 0123 - F NR\_SL\_relay-Core

[R2-2303491](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303491.zip) Clarification on the maximum Data field size for L2 U2N relay Huawei, HiSilicon CR Rel-17 38.322 17.2.0 0052 - F NR\_SL\_relay-Core

[R2-2304036](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304036.zip) Corrections on SRAP for SL relay NEC CR Rel-17 38.351 17.4.0 0020 - F NR\_SL\_relay-Core

## 6.6 NR Non-Terrestrial Networks (NTN)

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

Tdoc Limitation: 2 tdocs

### 6.6.1 General and Stage 2 corrections

LSs and Stage 2 corrections.

[R2-2302540](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302540.zip) NTN Stage-2 correction OPPO, Ericsson, Thales CR Rel-17 38.300 17.4.0 0647 - F NR\_NTN\_solutions-Core Late

[R2-2302654](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302654.zip) Corrections to 38.300 related to Section Scheduling and Timing THALES CR Rel-17 38.300 17.4.0 0630 1 D NR\_NTN\_solutions-Core R2-2301445 Revised

[R2-2302765](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302765.zip) Corrections to 38.300 related to Section Scheduling and Timing THALES CR Rel-17 38.300 17.4.0 0630 2 D NR\_NTN\_solutions-Core [R2-2302654](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302654.zip)

[R2-2303764](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303764.zip) Correction on Stage-2 descriptions for NR NTN Samsung CR Rel-17 38.300 17.4.0 0659 - F NR\_NTN\_solutions-Core

R2-2303835 Correction for R17 NR NTN Ericsson CR Rel-17 38.300 17.4.0 0660 - F NR\_NTN\_solutions Withdrawn

### 6.6.2 UP corrections

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

[R2-2303413](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303413.zip) Clarification on UL operation upon validity timer expiry Apple CR Rel-17 38.321 17.4.0 1588 - F NR\_NTN\_solutions-Core

[R2-2303820](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303820.zip) Corrections to NR NTN for 38.321 CATT, Turkcell, Huawei, HiSilicon, Quectel, CAICT CR Rel-17 38.321 17.4.0 1597 - F NR\_NTN\_solutions-Core

[R2-2303833](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303833.zip) Correction for R17 NR NTN description of HARQ mode Ericsson CR Rel-17 38.321 17.4.0 1598 - F NR\_NTN\_solutions

[R2-2303960](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303960.zip) UE behaviour related to SR and RACH after validity timer expires Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core Late

[R2-2303979](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303979.zip) Corrections on MAC procedure upon validity timer expiry for NR NTN Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.4.0 1606 - F NR\_NTN\_solutions-Core

[R2-2304000](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304000.zip) Discussion on the restriction on the usage of the same HARQ mode to the configured grant LG Electronics Inc. discussion NR\_NTN\_solutions-Core

[R2-2304001](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304001.zip) Discussion on the UE behaviour when the validity timer expires LG Electronics Inc. discussion NR\_NTN\_solutions-Core

### 6.6.3 CP corrections

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

[R2-2302693](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302693.zip) Correction on NR NTN UE capabilities Intel Corporation CR Rel-17 38.306 17.4.0 0888 - F NR\_NTN\_solutions-Core

[R2-2302868](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302868.zip) Features with different UE capability support in TN and NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2302755](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302755.zip) Correction to 38.331 for kmac definition THALES CR Rel-17 38.331 17.4.0 3962 - D NR\_NTN\_solutions-Core

Moved to 6.6.3 from 6.1.3

[R2-2303034](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303034.zip) Clarification on TN EUTRA capability reporting Qualcomm Incorporated CR Rel-17 38.331 17.4.0 3979 - F NR\_NTN\_solutions-Core

[R2-2303035](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303035.zip) Clarification on rounding the propagation delay difference value Qualcomm Incorporated CR Rel-17 38.331 17.4.0 3980 - F NR\_NTN\_solutions-Core

[R2-2303096](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303096.zip) Remaining issues on SMTC Huawei, HiSilicon, Google discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2303164](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303164.zip) Correction to indicate the NTN cells belonging to the same satellite Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3995 - F NR\_NTN\_solutions-Core

[R2-2303296](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303296.zip) Conditions to Skip Neighbor Cell Measurement in NTN Google Inc. CR Rel-17 38.304 17.4.0 0326 1 F NR\_NTN\_solutions-Core R2-2301703

[R2-2303412](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303412.zip) Clarification on the relationship between SMTC and satellite Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2303460](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303460.zip) Corrections for RLC-Config in TS 38.331 vivo CR Rel-17 38.331 17.4.0 4010 - F NR\_NTN\_solutions-Core

[R2-2303461](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303461.zip) Correction on Event D1 for Rel-17 NTN vivo CR Rel-17 38.331 17.4.0 4011 - F NR\_NTN\_solutions-Core

[R2-2303671](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303671.zip) Correction on missing referencing of the NTN spec in 38.306 MediaTek CR Rel-17 38.306 17.4.0 0894 - F NR\_NTN\_solutions-Core

[R2-2303675](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303675.zip) Correction on missing referencing of the NTN spec in 38.331 MediaTek CR Rel-17 38.331 17.4.0 4021 - F NR\_NTN\_solutions-Core

[R2-2303765](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303765.zip) Correction on SMTC for NR NTN Samsung CR Rel-17 38.331 17.4.0 4025 - F NR\_NTN\_solutions-Core

[R2-2303785](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303785.zip) Clarification on feature configurations upon TN NTN mobility in RRC\_INACTIVE Ericsson CR Rel-17 38.331 17.4.0 4027 - F NR\_NTN\_solutions-Core

[R2-2303819](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303819.zip) Discussion on SFTD Application for NTN cell CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2303923](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303923.zip) Clarification on T430 handling for target cell ASUSTeK, Samsung, Huawei, HiSilicon CR Rel-17 38.331 17.4.0 4039 - F NR\_NTN\_solutions-Core

[R2-2303924](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303924.zip) Correction on MIB configuration for NR NTN ASUSTeK CR Rel-17 38.331 17.4.0 4040 - F NR\_NTN\_solutions-Core

## 6.7 NR positioning enhancements

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

Tdoc Limitation: 4 tdocs

### 6.7.1 General and stage 2 corrections

[R2-2302404](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302404.zip) LS on GNSS integrity requirement parameters definition (C4-230655; contact: Huawei) CT4 LS in Rel-17 5G\_eLCS\_ph2 To:RAN2 Cc:SA2

[R2-2302429](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302429.zip) Reply LS on applicability of timing error margin of Rx TEG (R4-2303244; contact: CATT) RAN4 LS in Rel-17 NR\_pos\_enh-Core To:RAN2 Cc:RAN1, RAN3

[R2-2302637](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302637.zip) Miscellaneous corrections on 38.305 CATT CR Rel-17 38.305 17.4.0 0123 - F NR\_pos\_enh-Core

[R2-2302744](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302744.zip) Stage 2 procedure for deactivation of MG gap and PPW Intel Corporation draftCR Rel-17 38.305 17.4.0 F NR\_pos\_enh-Core

[R2-2302993](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302993.zip) Correction to UEPositioningAssistanceInformation Huawei, HiSilicon CR Rel-17 38.305 17.4.0 0124 - F NR\_pos\_enh-Core

[R2-2304052](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304052.zip) Update of information transfer from gNB to LMF Ericsson CR Rel-17 38.305 17.4.0 0125 - F NR\_pos\_enh-Core

[R2-2304053](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304053.zip) Measurements and Assistance Data Transfer Nokia, Nokia Shanghai Bell CR Rel-17 38.305 17.4.0 0126 - F NR\_pos\_enh-Core

[R2-2304054](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304054.zip) Protection Level and Target Integrity Risk Nokia, Nokia Shanghai Bell CR Rel-17 38.305 17.4.0 0127 - F NR\_pos\_enh-Core

[R2-2304178](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304178.zip) Draft Reply LS to CT4 on GNSS integrity requirements Huawei, HiSilicon LS out Rel-17 To:CT4 Cc:SA2 Late

### 6.7.2 RRC corrections

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

[R2-2302638](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302638.zip) Corrections on the figure of UE Positioning Assistance Information procedure CATT CR Rel-17 38.331 17.4.0 3956 - F NR\_pos\_enh-Core

[R2-2302992](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302992.zip) Correction to UE positioning assistance information Huawei, HiSilicon CR Rel-17 38.331 17.4.0 3976 - F NR\_pos\_enh-Core

### 6.7.3 LPP corrections

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

[R2-2302639](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302639.zip) Corrections on applicability of timing error margin of RxTEG in NR-Multi-RTT-SignalMeasurementInformation field descriptions CATT CR Rel-17 37.355 17.4.0 0431 - F NR\_pos\_enh-Core

[R2-2302884](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302884.zip) Miscellaneous corrections on LPP Lenovo CR Rel-17 37.355 17.4.0 0432 - F NR\_pos\_enh-Core

[R2-2302987](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302987.zip) Correction to PRS validity area Huawei, HiSilicon CR Rel-17 37.355 17.4.0 0433 - F NR\_pos\_enh-Core

[R2-2304050](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304050.zip) Missing LPP support for sub 1s location information reporting periodicity Ericsson discussion Rel-17

[R2-2304051](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304051.zip) Missing finer periodicities than 1s Ericsson CR Rel-17 37.355 17.4.0 0441 - F NR\_pos\_enh-Core

R2-2304055 Use of nr-DL-PRS-ExpectedAoD-or-AoA assistance by UE Nokia, Nokia Shanghai Bell CR Rel-17 38.305 17.4.0 0128 - F NR\_pos\_enh-Core Withdrawn

[R2-2304056](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304056.zip) LOS-NLOS-Indicator Types Nokia, Nokia Shanghai Bell CR Rel-17 37.355 17.4.0 0442 - F NR\_pos\_enh-Core

[R2-2304139](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304139.zip) Use of nr-DL-PRS-ExpectedAoD-or-AoA assistance by UE Nokia, Nokia Shanghai Bell CR Rel-17 37.355 17.4.0 0443 - F NR\_pos\_enh-Core

### 6.7.4 MAC corrections

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

[R2-2302991](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302991.zip) Correction to posSRS transmission in RRC\_INACTIVE Huawei, HiSilicon CR Rel-17 38.321 17.4.0 1581 - F NR\_pos\_enh-Core

[R2-2304049](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304049.zip) Correction for trigger condition of Scheduling Request Ericsson, OPPO CR Rel-17 38.321 17.4.0 1607 - F NR\_pos\_enh-Core

### 6.7.5 UE capabilities

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

[R2-2302745](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302745.zip) LPP capability for FGs27-13a,14a and 14-2 Intel Corporation draftCR Rel-17 37.355 17.4.0 F NR\_pos\_enh-Core

## 6.9 SON MDT

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

Tdoc Limitation: 2 tdocs

### 6.9.1 Stage-2

Stage-2 corrections and system level discussions.

[R2-2302451](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302451.zip) Reply LS on the user consent for trace reporting (S3-231398; contact: Huawei) SA3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3 Cc:RAN2, SA5, SA1, RAN

[R2-2302460](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302460.zip) LS on Excess Packet Delay Threshold for MDT (S5-232150; contact: Nokia) SA5 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3 Cc:RAN2

[R2-2302863](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302863.zip) Correction to NR M3 measurement Nokia, Nokia Shanghai Bell CR Rel-17 37.320 17.3.0 0124 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2303898](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303898.zip) Discussion on the UL PDCP packet average delay measurement of split bearer Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2303899](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303899.zip) Stage-2 correction on the UL PDCP packet average delay Huawei, HiSilicon CR Rel-17 37.320 17.3.0 0125 - F NR\_ENDC\_SON\_MDT\_enh-Core

### 6.9.3 SON Corrections

6.9.4 MDT Corrections

[R2-2302611](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302611.zip) Correction on timeSinceCHO-Reconfig in TS 38.331 CATT CR Rel-17 38.331 17.4.0 3953 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2302612](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302612.zip) Correction on SCG failure scenario of MHI in TS 38.331 CATT CR Rel-17 38.331 17.4.0 3954 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2302653](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302653.zip) Report of new packet loss rate China Unicom report Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2303451](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303451.zip) Correction to the handling of RLF-Report after successful HO Ericsson discussion Rel-17 38.331 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2303452](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303452.zip) On including TAC in the SHR Ericsson discussion Rel-17 38.331 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2303646](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303646.zip) Correction to timeSCGFailure Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 4020 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2303696](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303696.zip) NB-IoT UE location Info in RLF report Qualcomm Incorporated discussion Rel-17

[R2-2303717](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303717.zip) Correction on UE location information in NB-IoT RLF report Qualcomm Inc. CR Rel-17 36.331 17.4.0 4924 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2304083](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304083.zip) 38.314 CR for the introduction of packet loss rate with delay threshold China Unicom, CATT CR Rel-17 38.314 17.2.0 0027 - B NR\_ENDC\_SON\_MDT\_enh-Core

## 6.10 NR Sidelink enhancements

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

Tdoc Limitation: 3 tdocs

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

### 6.10.1 General and Stage 2 corrections

LSs and Stage 2 corrections.

[R2-2302410](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302410.zip) Reply LS to RAN2 on default CBR configuration (R1-2302174; contact: OPPO) RAN1 LS in Rel-17 NR\_SL\_enh-Core To:RAN2

[R2-2302684](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302684.zip) Corrections on TS 38.300 for SL enhancements Huawei, HiSilicon CR Rel-17 38.300 17.4.0 0648 - F NR\_SL\_enh-Core

[R2-2302839](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302839.zip) Correction to 38300 on IUC Ericsson, Apple CR Rel-17 38.300 17.4.0 0649 - F NR\_SL\_enh-Core

[R2-2302840](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302840.zip) Correction to 38300 on IUC cast type Ericsson CR Rel-17 38.300 17.4.0 0650 - F NR\_SL\_enh-Core

[R2-2302841](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302841.zip) Discussion on RAN1 LS R1-2302174 Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2303213](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303213.zip) Miscellaneous corrections on TS 38.300 for NR sidelink Xiaomi CR Rel-17 38.300 17.4.0 0654 - F NR\_SL\_enh-Core

[R2-2303383](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303383.zip) Miscellaneous corrections for Stage 2 NR sidelink enhancements Apple CR Rel-17 38.300 17.4.0 0655 - F NR\_SL\_enh-Core

### 6.10.2 Control plane corrections

Includes corrections on 38.331 and 38.304.

[R2-2302617](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302617.zip) Miscellaneous RRC corrections for the usage of default CBR configuration CATT CR Rel-17 38.331 17.4.0 3955 - F NR\_SL\_enh-Core

[R2-2302683](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302683.zip) Miscellaneous corrections on 38.331 for SL enhancements Huawei, HiSilicon CR Rel-17 38.331 17.4.0 3960 - F NR\_SL\_enh-Core

[R2-2302686](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302686.zip) Corrections on TS 38.304 for SL enhancements Huawei, HiSilicon CR Rel-17 38.304 17.4.0 0329 - F NR\_SL\_enh-Core

[R2-2302795](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302795.zip) On default CBR configuration Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core

[R2-2303907](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303907.zip) Correction on field description for DRX timer ZTE Corporation, Sanechips CR Rel-17 38.331 17.4.0 4032 - F NR\_SL\_enh-Core

[R2-2303908](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303908.zip) Correction on default CBR configuration ZTE Corporation, Sanechips CR Rel-17 38.331 17.4.0 4033 - F NR\_SL\_enh-Core

[R2-2303925](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303925.zip) Discussion on deriving timer length for DRX timers ASUSTeK discussion Rel-17 38.331 NR\_SL\_enh-Core

[R2-2303926](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303926.zip) Corrections on deriving timer length for DRX timers - option 1a ASUSTeK CR Rel-17 38.331 17.4.0 4041 - F NR\_SL\_enh-Core

[R2-2303927](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303927.zip) Corrections on deriving timer length for DRX timers - option 1b ASUSTeK, vivo CR Rel-17 38.331 17.4.0 4042 - F NR\_SL\_enh-Core

[R2-2304150](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304150.zip) Summary on control plane corrections for NR SL enhancements Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core Late

### 6.10.3 User plane corrections

Includes the email discussion [POST121][510][V2X/SL] and corrections on 38.321, 38.322, and 38.323.

[R2-2302618](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302618.zip) Correction on resource (re-)selection for NR sidelink CATT CR Rel-17 38.321 17.4.0 1574 - F NR\_SL\_enh-Core

[R2-2302619](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302619.zip) Correction on case for default CBR configuration CATT CR Rel-17 38.321 17.4.0 1575 - F NR\_SL\_enh-Core

[R2-2302647](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302647.zip) Discussion on default CBR OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2302685](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302685.zip) Correction on 38.321 for SL enhancements Huawei, HiSilicon CR Rel-17 38.321 17.4.0 1578 - F NR\_SL\_enh-Core

[R2-2302908](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302908.zip) SL DRX timers BWP numerology Nokia, Nokia Shanghai Bell draftCR Rel-17 38.321 17.4.0 F NR\_SL\_enh-Core

[R2-2303214](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303214.zip) Discussion on the usage of default CBR values for NR sidelink Xiaomi discussion

[R2-2303215](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303215.zip) Correction on the usage of default CBR values for NR sidelink Xiaomi CR Rel-17 38.321 17.4.0 1587 - F NR\_SL\_enh-Core

R2-2303743 Summary on user plane corrections for NR SL enhancements LG Electronics France discussion Late

[R2-2303744](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303744.zip) Summary of email discussion [POST121][510][V2XSL] IUC procedure in re-evaluationpre-emptionconflict indicator (LG) LG Electronics France discussion NR\_SL\_enh-Core

[R2-2303745](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303745.zip) User plane corrections on NR Sidelink enhancements LG CR Rel-17 38.321 17.4.0 1595 - F NR\_SL\_enh-Core

## 6.11 RACH indication and partitioning

Expected to cover WIs SDT, CovEnh, RedCap, RAN slicing. RA specific aspects from the different WI should be covered in this AI given the RA experts are all there.

Tdoc Limitation: 1 tdocs

[R2-2302668](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302668.zip) Clarification on the Selected Set of RA Resources vivo CR Rel-17 38.321 17.4.0 1577 - F NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core Late

# 7 Rel-18

## 7.1 NR network-controlled repeaters

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

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 7.1.1 Organizational

Including LSs and any rapporteur inputs.

[R2-2302414](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302414.zip) LS to RAN2 on the RRC and MAC CE parameters for NCR (R1-2302227; contact: ZTE) RAN1 LS in Rel-18 NR\_netcon\_repeater To:RAN2

[R2-2304113](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304113.zip) 38.300 Running CR for NCR Ericsson draftCR Rel-18 38.300 17.4.0 B NR\_netcon\_repeater

[R2-2303289](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303289.zip) RRC running CR for R18 NCR ZTE Corporation draftCR Rel-18 38.331 17.4.0 B NR\_netcon\_repeater

[R2-2303445](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303445.zip) Introducing support for Network Controlled Repeaters to 38.321 Samsung CR Rel-18 38.321 17.4.0 1554 1 B NR\_netcon\_repeater-Core R2-2301520

[R2-2303446](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303446.zip) Outstanding MAC issues Samsung R&D Institute UK discussion

[R2-2303901](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303901.zip) 38.304 running CR for R18 NCR CATT draftCR Rel-18 38.304 17.4.0 B NR\_netcon\_repeater

[R2-2302789](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302789.zip) Draft 306 CR of Network controlled repeater UE capability Intel Corporation draftCR Rel-18 38.306 17.4.0 B NR\_netcon\_repeater

[R2-2302790](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302790.zip) Draft 331 CR of Network controlled repeater UE capability Intel Corporation draftCR Rel-18 38.331 17.4.0 B NR\_netcon\_repeater

### 7.1.2 Signalling for side control information

Signalling and procedures for for side control information, based on RAN1 agreements.

[R2-2302927](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302927.zip) Further issues related to NCR ON/OFF behaviour and side control configuration Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_netcon\_repeater

[R2-2303237](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303237.zip) Remaining issues for side control information Lenovo discussion Rel-18

[R2-2303263](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303263.zip) MAC CE Design for Semi-Persistent Beam Configuration vivo discussion Rel-18

[R2-2303290](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303290.zip) Remaining issues in NCR RRC running CR ZTE Corporation, Sanechips discussion Rel-18 NR\_netcon\_repeater

[R2-2303772](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303772.zip) Considerations on signalling for side control information China Telecom discussion

[R2-2303973](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303973.zip) Discussion on MAC issues for NCR Huawei, HiSilicon discussion Rel-18 NR\_netcon\_repeater

### 7.1.3 Other RAN2 aspects

Other RAN2 aspects, including: SI impacts, RRC states, RRM, capabilities and others not covered by 8.1.2.

[R2-2303288](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303288.zip) Report of [Post121][703][NCR] Open issues on NCR RRC ZTE Corporation report Rel-18 NR\_netcon\_repeater

[R2-2302788](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302788.zip) Summary of [Post121][702][NCR] capabilities running CR for NCR (Intel) Intel Corporation discussion Rel-18 NR\_netcon\_repeater

[R2-2302787](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302787.zip) Discussion on NCR remaining open issues Intel Corporation discussion Rel-18 NR\_netcon\_repeater

[R2-2302893](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302893.zip) Beam reselection by RRC\_INACTIVE NCR Qualcomm Inc. discussion Rel-18 NR\_netcon\_repeater

[R2-2302928](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302928.zip) RRC release with redirection for NCR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_netcon\_repeater

[R2-2302944](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302944.zip) Discussion on releasing NCR-MT to RRC\_IDLE Fujitsu discussion Rel-18 NR\_netcon\_repeater

[R2-2302947](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302947.zip) Further discussion on remaining open issues when NCR-MT is in RRC Inactive and RRC idle NEC discussion Rel-18 NR\_netcon\_repeater

[R2-2303238](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303238.zip) Discussion on RRC states for NCR-MT Lenovo discussion Rel-18

[R2-2303264](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303264.zip) Remaining Issues of Side Control Information Signaling vivo discussion Rel-18

[R2-2303276](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303276.zip) Remaining issues on NCR Kyocera discussion Rel-18

[R2-2303291](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303291.zip) Discussion on NCR remaining issues ZTE Corporation, Sanechips discussion Rel-18 NR\_netcon\_repeater

[R2-2303387](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303387.zip) Discussion on remaining issues for NCR-MT in IDLE/INACTIVE Apple discussion Rel-18

[R2-2303775](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303775.zip) Discussion on remaining issues for NCR China Telecom discussione

[R2-2303944](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303944.zip) Cell selection for NR network-controlled repeaters AT&T discussion

[R2-2303974](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303974.zip) Discussion on CP issues for NCR Huawei, HiSilicon discussion Rel-18 NR\_netcon\_repeater

[R2-2304004](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304004.zip) Handling of NCR failure and reestablishment Samsung R&D Institute UK discussion

[R2-2304015](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304015.zip) Further considerations on NCR procedures and Stage 2 corrections Samsung R&D Institute UK discussion Rel-18 NR\_netcon\_repeater

[R2-2304114](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304114.zip) Remaining issues for NCR Ericsson discussion Rel-18 NR\_netcon\_repeater

[R2-2304115](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304115.zip) Transitioning from IDLE to CONNECTED Ericsson discussion Rel-18 NR\_netcon\_repeater

### 7.1.4 Repeater management

RAN2 aspects of repeater management (if any).

Note: this AI is assumed to be handled in RAN3, it will be treated with lower priority (may not be treated at all) in RAN2.

## 7.2 Expanded and improved NR positioning

(NR\_pos\_enh2; leading WG: RAN1; REL-18; WID: RP-223549)

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

### 7.2.1 Organizational

Including incoming LSs and rapporteur inputs.

[R2-2302403](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302403.zip) LS on LPP message and supplementary service event report over a user plane connection between UE and LMF (C1-231129; contact: Ericsson) CT1 LS in Rel-18 5G\_eLCS\_Ph3 To:SA2 Cc:SA3, RAN2, CT4

[R2-2302409](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302409.zip) LS Reply on PRU Procedures (R1-2302146; contact: Qualcomm) RAN1 LS in Rel-18 NR\_pos\_enh2-Core, 5G\_eLCS\_Ph3 To:SA2 Cc:RAN2, RAN3

[R2-2302446](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302446.zip) LS on the requirement on low power or high accuracy positioning (S2-2303414; contact: Huawei) SA2 LS in Rel-18 5G\_eLCS\_Ph3 To:SA1, RAN1, RAN2

[R2-2302448](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302448.zip) LS on support of multiple Target UEs (S2-2303837; contact: Qualcomm) SA2 LS in Rel-18 Ranging\_SL To:RAN2 Cc:RAN1

[R2-2302449](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302449.zip) LS on PRU procedures (S2-2303861; contact: Qualcomm) SA2 LS in Rel-18 5G\_eLCS\_Ph3 To:RAN1, RAN2

[R2-2302502](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302502.zip) Work Plan on Rel-18 Positioning Work Item CATT, Intel, Ericsson Work Plan Rel-18 NR\_pos\_enh2

[R2-2302738](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302738.zip) Further considerations on SLPP specification Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2302739](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302739.zip) TS 38.355 skeleton Intel Corporation draft TS Rel-18 38.355 0.0.1 NR\_pos\_enh2

[R2-2302875](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302875.zip) PRU Procedures (draft response LS to R2-2301939 (S2-2303861)) Qualcomm Incorporated discussion

[R2-2302957](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302957.zip) Discussion and draft LS reply on PRU procedures vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2303513](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303513.zip) Support of Multiple Target UEs for Sidelink Positioning Qualcomm Incorporated discussion

[R2-2303707](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303707.zip) On the Positioning Reference Units aspects Ericsson discussion Rel-18

### 7.2.2 Sidelink positioning

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

[R2-2302503](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302503.zip) Discussion on sidelink positioning CATT discussion Rel-18 NR\_pos\_enh2

[R2-2302582](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302582.zip) Discussion on Sidelink Positioning Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2302588](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302588.zip) UE Positioning using Sidelink Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2302655](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302655.zip) Discussion of signalling procedures Nokia Germany discussion Rel-18

[R2-2302656](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302656.zip) Discussion of session-based and session-less SL positioning Nokia Germany discussion Rel-18

[R2-2302740](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302740.zip) Further considerations on sidelink positioning Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2302885](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302885.zip) Discussion on further SLPP aspects Lenovo discussion Rel-18 NR\_pos\_enh2

[R2-2302958](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302958.zip) Discussion on sidelink positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2302982](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302982.zip) Discussion on Anchor UE (Re)discovery and (Re)selection for SL positioning KT Corp. discussion Rel-18 NR\_pos\_enh2

[R2-2303048](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303048.zip) Discussion on SL positioning discovery and selection procedure Samsung discussion Rel-18 NR\_pos\_enh2

[R2-2303078](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303078.zip) Considerations on sidelink positioning resources Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2303131](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303131.zip) Discussion on Sidelink Positioning LG Electronics Inc. discussion Rel-18

[R2-2303186](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303186.zip) Further discussion on sidelink positioning OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2303187](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303187.zip) Further discussion on anchor UE reselection for sidelink positioning OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2303298](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303298.zip) On SL Positioning Architecture Aspects Lenovo discussion Rel-18

[R2-2303365](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303365.zip) SL positioning groupcast and broadcast Apple discussion Rel-18 NR\_pos\_enh2

[R2-2303366](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303366.zip) [DARFT] Reply LS on SL positioning groupcast and broadcast Apple LS out Rel-18 NR\_pos\_enh2 To:SA3

[R2-2303443](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303443.zip) View on SL ranging and positioning architecture and signalling procedures CEWiT discussion

[R2-2303497](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303497.zip) Discussion on sidelink positioning ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2303538](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303538.zip) Considerations on Sidelink positioning CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2303569](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303569.zip) Discussion on potential solutions for SL positioning Spreadtrum Communications discussion Rel-18

[R2-2303591](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303591.zip) Sidelink Positioning Protocol (SLPP) Signaling and Procedures Qualcomm Incorporated discussion

[R2-2303703](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303703.zip) Sidelink positioning Ericsson discussion Rel-18

[R2-2303753](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303753.zip) Protocol considerations for Anchor UEs with(out) known location Philips International B.V. discussion R2-2301890

[R2-2303993](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303993.zip) Discussion on Sidelink positioning InterDigital Communications discussion Rel-18

[R2-2304005](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304005.zip) Designing SLPP protocol in the session perspective Samsung R&D Institute UK discussion

[R2-2304033](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304033.zip) Discussion on SL positioning Xiaomi discussion Rel-18

[R2-2304182](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304182.zip) On the support of SL positioning server functionality Philips International B.V. discussion

### 7.2.3 RAT-dependent integrity

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

[R2-2302504](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302504.zip) Discussion on RAT-Dependent integrity CATT discussion Rel-18 NR\_pos\_enh2

[R2-2302581](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302581.zip) Discussion on RAT-dependent Integrity Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2302741](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302741.zip) Further considerations on RAT dependent integrity Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2302959](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302959.zip) Discussion on RAT-dependent positioning integrity vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2303184](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303184.zip) Consideration on RAT-dependent positioning integrity OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2303230](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303230.zip) Discussion on RAT-dependent integrity Lenovo discussion Rel-18

[R2-2303433](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303433.zip) Discussion on RAT-dependent positioning integrity Xiaomi discussion

[R2-2303495](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303495.zip) Discussion on RAT-dependent methods positioning integrity ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2303540](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303540.zip) Discussion on the integrity issues CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2303571](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303571.zip) Discussion on solutions for integrity of RAT-dependent positioning techniques Spreadtrum Communications discussion Rel-18

[R2-2303682](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303682.zip) Integrity of NR Positioning Technologies Qualcomm Incorporated discussion

[R2-2303705](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303705.zip) RAT Dependent positioning Integrity Ericsson discussion Rel-18

[R2-2303994](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303994.zip) Discussion on RAT dependent integrity InterDigital Communications discussion Rel-18

[R2-2304058](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304058.zip) Spec impact of RAT-dependent error sources for positioning integrity Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_pos\_enh2-Core

### 7.2.4 LPHAP

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

[R2-2302505](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302505.zip) Discussion on LPHAP CATT discussion Rel-18 NR\_pos\_enh2

[R2-2302580](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302580.zip) Discussion on LPHAP Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2302589](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302589.zip) Enhancements for supporting LPHAP Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2302742](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302742.zip) Further considerations on LPHAP Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2302960](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302960.zip) Discussion on solution of LPHAP vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2303079](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303079.zip) Considerations on Low Power High Accuracy Positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2303185](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303185.zip) Discussion on LPHAP OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2303231](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303231.zip) Discussion on low power high accuracy positioning Lenovo discussion Rel-18

[R2-2303367](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303367.zip) Alignment between DRX and PRS Apple discussion Rel-18 NR\_pos\_enh2

[R2-2303434](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303434.zip) Discussion on LPHA positioning Xiaomi discussion

[R2-2303494](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303494.zip) Discussion on LPHAP ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2303539](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303539.zip) Considerations on LPHAP CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2303570](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303570.zip) Discussion on LPHAP Spreadtrum Communications discussion Rel-18

[R2-2303697](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303697.zip) Enhancements for LPHAP Qualcomm Incorporated discussion

[R2-2303704](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303704.zip) Discussion on Low Power High Accuracy Positioning Ericsson discussion Rel-18

[R2-2303886](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303886.zip) Discussion on SRS configuration in RRC\_INACTIVE Samsung discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2303985](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303985.zip) Discussion on LPHAP LG Electronics Inc. discussion Rel-18

[R2-2303995](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303995.zip) Discussion on LPHAP InterDigital Communications discussion Rel-18

[R2-2304059](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304059.zip) PRS and DRX configuration alignment Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_pos\_enh2-Core R2-2301752

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

RAN1 led objectives that may require progress in RAN1 before RAN2 can take decisions. This agenda item will be treated at lower priority.

[R2-2302506](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302506.zip) Discussion on carrier phase positioning, bandwidth aggregation for positioning and Redcap positioning CATT discussion Rel-18 NR\_pos\_enh2

[R2-2302743](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302743.zip) Considerations on other RAN1 led items Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2302818](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302818.zip) Discussion on RAN1 led positioning topics Huawei, HiSilicon discussion Rel-18

[R2-2303435](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303435.zip) Discussion on RedCap UE positioning Xiaomi discussion

[R2-2303496](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303496.zip) Discussion on BW aggregation and RedCap poositioning ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2303541](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303541.zip) Discussion on the RedCap UE positioning CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2303706](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303706.zip) RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning Ericsson discussion Rel-18

[R2-2303887](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303887.zip) Discussion on bandwidth aggregation Samsung discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2303996](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303996.zip) Discussion on positioning for RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning InterDigital Communications discussion Rel-18

## 7.3 Network energy savings for NR

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

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

### 7.3.1 Organizational

LS, workplan, email discussion etc

[R2-2303101](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303101.zip) Work plan for NR network energy savings Huawei, HiSilicon Work Plan Rel-18 Netw\_Energy\_NR

### 7.3.2 DTX/DRX mechanism

Including email discussions [POST121][311][NES] DTX/DRX - gNB and UE behaviours (InterDigital) and [POST121][312][NES] DTX/DRX - Configuration/activation/deactivation and alignment (Huawei)

R2-2302487 Uplink transmission restrictions to support cell DRX-DTX NEC discussion Netw\_Energy\_NR-Core Withdrawn

[R2-2302763](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302763.zip) Cell DTX/DRX impact on C-DRX CATT, Dell Technologies, Turkcell discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2302796](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302796.zip) Outcome of [POST121][312][NES] DTX/DRX - Configuration/ activation/ deactivation and alignment (Huawei) Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR

[R2-2302797](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302797.zip) Discussion on cell DTX and DRX Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR

[R2-2302835](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302835.zip) Further discussion on cell DTX and DRX ZTE Corporation, Sanechips discussion Rel-18 Netw\_Energy\_NR-Core Late

[R2-2302914](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302914.zip) Cell DTX-DRX Mechanism Qualcomm Incorporated discussion Rel-18

[R2-2302976](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302976.zip) Further considerations on Cell DTX and DRX Intel Corporation discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303152](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303152.zip) Discussion on DTX/DRX mechanism LG Electronics Inc. discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303257](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303257.zip) On Cell DTX and DRX Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 Netw\_Energy\_NR

[R2-2303310](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303310.zip) Discussion on DTX/DRX mechanism OPPO discussion Rel-18 Netw\_Energy\_NR

[R2-2303316](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303316.zip) UE and gNB behaviors to support cell DTX/DRX NEC Telecom MODUS Ltd. discussion

[R2-2303369](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303369.zip) Further discussion on Cell DTX / DRX Apple discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303444](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303444.zip) Expected cell - UE behaviour during cell DTX/DRX BT plc discussion Rel-18

R2-2303600 Cell DTX/DRX mechanism InterDigital discussion Rel-18 Netw\_Energy\_NR-Core Withdrawn

[R2-2303604](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303604.zip) Report of [POST121][311][NES] DTX/DRX - gNB and UE behaviours InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303653](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303653.zip) Alignment to Cell DRX and cell DTX Lenovo discussion Netw\_Energy\_NR-Core

[R2-2303663](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303663.zip) Further aspects on cell DTX/DRX Ericsson discussion

[R2-2303748](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303748.zip) Discussion on DTX/DRX for NES Samsung discussion Rel-18

[R2-2303773](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303773.zip) Discussion on Cell DTX/DRX configuration and operation Xiaomi discussion Rel-18

[R2-2303792](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303792.zip) Discussion on cell DTX/DRX CMCC discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303823](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303823.zip) discussion on cell DTX-DRX mechanism vivo discussion Rel-18

[R2-2303827](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303827.zip) Issues on Cell DTX/DRX ETRI discussion

[R2-2303860](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303860.zip) Remaining issues on DTX/DRX Nokia, Nokia Shanghai Bell discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303978](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303978.zip) Considerations on Cell DTX/DRX KDDI Corporation discussion

[R2-2303984](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303984.zip) Discussion on Cell DRX/DTX Rakuten Mobile, Inc discussion Rel-18

[R2-2304080](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304080.zip) Discussion on Cell DTX/DRX NTT DOCOMO INC. discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2304181](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304181.zip) Further considerations on the Cell DTX/DRX MediaTek Inc. discussion Rel-18

### 7.3.3 SSB-less Scell operation

Contributions on inter-band CA for FR1 and co-located cells

Will not be treated in this meeting

R2-2303603 SSB-less Scell operation InterDigital discussion Rel-18 Netw\_Energy\_NR-Core Withdrawn

### 7.3.4 Cell selection/re-selection

Contributions mechanisms to prevent legacy UEs camping on cells adopting the Rel-18 NES mode

Will not be treated in this meeting. We will treat this topic once some progress is made on different NES solutions

[R2-2302915](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302915.zip) Barring legacy UEs for NES Cells Qualcomm Incorporated, T-Mobile US discussion Rel-18

[R2-2303247](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303247.zip) Cell selection/re-selection in NES Lenovo discussion Rel-18

[R2-2303514](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303514.zip) Discussion on cell barring and reselection for NES CMCC discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303601](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303601.zip) Cell selection and resection for NES InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2304070](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304070.zip) Discussion on Cell selection NTT DOCOMO INC. discussion Rel-18 Netw\_Energy\_NR-Core

### 7.3.5 Connected mode mobility

Contributions on CHO procedure enhancement(s) in case source/target cell is in NES mode

[R2-2302764](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302764.zip) CHO enhancement for NES CATT, Turkcell discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2302837](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302837.zip) Further discussion on connected mode mobility ZTE Corporation, Sanechips discussion Rel-18 Netw\_Energy\_NR-Core Late

[R2-2302925](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302925.zip) NES Connected mode mobility Qualcomm Incorporated discussion Rel-18

[R2-2303077](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303077.zip) CHO for NES Ericsson discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303080](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303080.zip) Handover enhancement for NES Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2303102](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303102.zip) Discussion on CHO enhancement for NES Huawei, HiSilicon discussion Rel-18 Netw\_Energy\_NR

[R2-2303128](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303128.zip) CHO on NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2303146](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303146.zip) Discussion on CHO enhancements for NES Sharp discussion

[R2-2303161](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303161.zip) Triggering conditions and other aspects of the Handover to/from DTX/DRX cells Vodafone España SA, Apple discussion Rel-18

[R2-2303259](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303259.zip) Discussion on Connected mode mobility for network energy savings Fujitsu Limited discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303311](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303311.zip) Discussion on connected mode mobility OPPO discussion Rel-18 Netw\_Energy\_NR

[R2-2303317](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303317.zip) CHO procedure enhancement to support NES mode NEC Telecom MODUS Ltd. discussion

[R2-2303370](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303370.zip) Discussion on CHO enhancement in NES Apple discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303481](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303481.zip) DRAFT LS for Enhanced handovers towards cells with activated cell DTX/DRX or cells which are going to be switched off Vodafone LS out Rel-18 To:RAN3

[R2-2303512](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303512.zip) CHO procedure enhancements for NES Intel Corporation discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303602](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303602.zip) NES mobility aspects InterDigital discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2303654](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303654.zip) CHO Procedure in NES Mode Lenovo discussion Netw\_Energy\_NR-Core

[R2-2303749](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303749.zip) Discussion on Connected mode mobility for NES Samsung discussion Rel-18

[R2-2303793](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303793.zip) Discussion on Connected mode mobility enhancement for NES CMCC discussion Rel-18 Netw\_Energy\_NR-Core Late

[R2-2303824](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303824.zip) Conditional handover enhancement for network energy saving vivo discussion Rel-18

[R2-2303853](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303853.zip) Discussion on UE mobility due to NES cell Xiaomi discussion

[R2-2304155](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304155.zip) Discussion on CHO procedure enhancements in case source/target cell is in NES mode Turkcell discussion Rel-18

[R2-2304180](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304180.zip) Connected Mode Mobility LG Electronics Inc. discussion Rel-18 Netw\_Energy\_NR-Core

### 7.3.6 Others

This will be downprioritized

## 7.4 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID: RP-223520)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs .

### 7.4.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, running CRs update).

LS in

LTM

[R2-2302412](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302412.zip) LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM (R1-2302194; contact: Fujitsu, CATT) RAN1 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2, RAN3, RAN4

- We need to reply at least for section B.

* Noted
* [AT121bis-e][016][eMob] Reply LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM (Fujitsu)

Scope: Based on Meeting Agreements, provide agreeable draft LS

Intended outcome: Agreeable Draft LS

Deadline: CB online W2 Wednesday

R2-2304522 Summary of [AT121bis-e][016][eMob] Reply LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM (Fujitsu) Fujitsu

* Noted

R2-2304523 [Draft] Reply LS on PDCCH ordered RACH for LTM LS out Fujitsu, CATT

- Samsung think that all options are feasible. And if we want to just list two options then we should use preferable.

- Ericsson think R1 already agreed to not support option 3. Think the title should be changed if we want to include the La measurements.

- Chair: a number of tohru comments that LS text is ok. Think that the last sentence explains why not all options are listed as feasible (even though they are – in principle .. ).

* Current Contents is agreeable as is. Include also agreements regarding L1 measurements for information (copy-past of agreements part), revise the title to be *Reply LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM*
* The revised LS out is approved unseen in R2-2304553

[R2-2302432](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302432.zip) Reply LS on L1 intra- and inter- frequency measurement and configurations for L1/L2-based inter-cell mobility (R4-2303308; contact: CATT) RAN4 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN1 Cc:RAN2

* noted

[R2-2302458](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302458.zip) LS on Approaches during execution for inter-DU LTM (R3-230889; contact: Ericsson) RAN3 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2 Cc:RAN1

- Ericsson think that the “before” may delay the trigger.

- Need to reply.

* noted

Selective SCG activation

[R2-2302450](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302450.zip) Reply LS R2-2213337 LS on security for selective SCG activation (S3-231397; contact: Nokia) SA3 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

- Nokia think SA3 would develop the solution, RAN2 doesn’t need to look into this.

- Apple think SA3 will make a requirement, but think RAN groups need to specify. Lenovo also think so.

- Ericsson think we can wait with this until SA3 has specified a requirement.

- Nokia think we can wait and this would be more efficient. They may have some solution in mind.

- Chair: at current meeting this will have low priority

* Noted

### 7.4.2 L1L2 Triggered Mobility

CR

[R2-2304101](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304101.zip) RRC running CR for LTM Ericsson draftCR Rel-18 38.331 17.4.0 B NR\_Mob\_enh2-Core Late

- Ericsson reports that it has been attempted to implement agreements and also cover FFSes that seems needed to have a ok RRC impl.

- Ericsson think we can have informal review for now, and have proper email discussion after May.

Chair: AT Email discussion (best effort) to collect comments (for the next version next meeting).

* Noted
* [AT121bis-e][017][eMob] RRC (Ericsson)

Scope: Review of RRC CR in R2-2304101, which doesn’t include this meetings agreements. Identify things that should be corrected and missing things.

Intended outcome: Improved baseline RRC CR (no attempt to formally endorse), including editors Notes indicating Open Issues that should be addressed in the upcoming meetings.

Deadline: EOM (offline only, can is needed extend to W2 Friday).

#### 7.4.2.1 General and Stage-2

Including elaboration on the components of the latency time line, if needed. Including further Specification of focus Scenarios, if needed. Including impacts to and expectations of other groups. Including security.

At current meeting: Address RACH-less LTM (if possible: early acquisition of TA). Consolidate the procedure(s) for the different scenarios. Clarify further the differences of expectations/procedure/performance for intra/inter-DU, intra/inter-freq.

Early TA and RACH-less

[R2-2302750](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302750.zip) Discussion on the early TA acquisition Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P1

- MTK support

- Samsung think separate config is not needed

- Intel think that the configuration of candidate cell and configuration for early TA may be received at different times.

- Ericsson think it will be still in the LTM structure but not in the specific candidate cell config. Ericsson clarifies that this should still be cell specific.

- vivo has concerns. Chair point out that there is a significant majority support.

P2

- Intel explains that regarding the RACH preamble resource, source DU can have a small pool from target DU(s) that source DU can use among multiple UEs, and this is already in PDCCH order. Intention is to allow “real time” interaction to not have to allocate a very large pool of CFRA resource.

- MTK think this is reasonable but R1 can decide.

- Nokia wonder if PDCCH order refers to a RRC config. Chair think it is clear that PDCCH refers to something.

- Leonovo want a solution where UE does RACH autonomously towards candidate neighbour cells to acquire TA early.

P3

- ZTE think that preamble without RAR is a new thing and the O2 should be the baseline. Intel think that this is RACH towards a different cell, so this is new in any case.

- Ericsson indicate that R1 already agreed that O1 and O2 shall be supported.

- FW think that when DC is enabled then RACH will not have interruption on serving cell and think that the latency could be less.

- Chair: FW Lenovo and Xiaomi support O3 in order to optimize for the LTM operation for cell switching in DC, a big majority of companies think O3 is not needed.

- Chair: O1 O2, seems difficult to decide.

* From RAN2 perspective, to enable shared preamble resource among multiple UEs, it is beneficial that the information that identifies the allocated CFRA resource (i.e., SS/PBCH index, RACH occasion, and Random Access Preamble index) can be indicated in the PDCCH order (as legacy intra-cell PDCCH order).
* RRC RACH configuration for early TA acquisition (e.g., including whether RAR needs to be received) is specific per target cell and is signalled separately (separate IEs) from the candidate cell configuration (the part that need to be applied at cell switch).
* R2 assumes that Early TA RACH option 3 (with RAR from candidate cell) is not needed in Rel-18.

[R2-2303348](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303348.zip) RACH-less in LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

* Noted
* With the assumption that the UE will skip RACH in the target cell if a TA value is given in the cell switch command: It is FFS if the following TA values can be given to the UE:

- Value 0,

- Value indicating that the UE shall apply the TA of one source cell.

[R2-2304104](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304104.zip) TA handling aspects for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

- Chair wonders what to do with this paper. It is good and a good source for Stage-2 material, but a bit RAN3-centric. Shall we attempt to agree any part? Will RAN3 agree?

- Ericsson think that at least the proposals on TA-timer need to be discussed.

* Noted

[R2-2302507](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302507.zip) Discussion on RACH-less LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303165](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303165.zip) On RA, TA Acquisition and Maintenance in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302946](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302946.zip) Discussion on replying to the RAN1 LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM Fujitsu, CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302591](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302591.zip) Early Timing Advance Management for LTM Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302607](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302607.zip) Discussion on issues with L1L2 dynamic mobility and RACH-less Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302605](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302605.zip) On combined triggering of mobility changes and RACH-less in sequential LTM Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302752](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302752.zip) Discussion on RACH-less LTM Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302766](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302766.zip) Discussion on RACH-less Handover for L1/L2 Triggered Mobility Rakuten Symphony discussion Rel-18

[R2-2303061](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303061.zip) Early TA Acquisition in L1L2-triggered Mobility MediaTek Inc. discussion

[R2-2303393](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303393.zip) RACH-less LTM, LTM MAC CE and TA management Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303536](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303536.zip) Considerations on Timing Advance management for LTM CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303550](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303550.zip) RACH-less cell switch (inter-DU issues, RAR options from R1 LS) and L1 measurement configuration Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303649](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303649.zip) Details of Early TA work Lenovo discussion NR\_Mob\_enh2-Core

[R2-2303940](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303940.zip) Discussion on TA of candidate cells for LTM LG Electronics Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302945](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302945.zip) [Draft] Reply LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM Fujitsu, CATT LS out Rel-18 NR\_Mob\_enh2-Core To:RAN1, RAN3

Procedures

[R2-2303549](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303549.zip) LTM procedure including RAN3 LS and miscellaneous issues Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302829](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302829.zip) Discussion on LTM procedures Qualcomm Inc. discussion Rel-18 NR\_Mob\_enh2-Core

* [AT121bis-e][018][eMob] Procedure Consolidation (Huawei)

Scope: 1: Identify agreements (easy / tentative), and Open Issues that should be resolved to consolidate and clarify LTM procedures, can also suggest/indicate wanted updates to procedural descriptions (ST-2)

2: Collect comments on R3 LS and propose resolution.

Use R2-2303549, R2-2302829 as inspiration, Can also include proposals from other papers that seem relevant.

Intended outcome: Report

Deadline: CB W2 Wednesday

R2-2304214 Summary of [AT121bis-e][018][eMob] Procedure Consolidation (Huawei) Huawei, HiSilicon

DISCUSSION

- Xiaomi think 2c need to be discussed for SCG switch.

- Apple think P1 has issues. Coupling L1/L2 and L3 brings issues that need to be considered later, also R3 issues. Ericsson think this is a consequence of using model 1. Not using RRC reconfiguration brings more work. Chair think we then just use “R2 assumes” indicating that we could revert if serious issue(s) is/are indeed found.

P3c

- VDF think this can only be supported if simple. Chair agrees, we don’t have meeting time for scope expansion.

P4

- QC think there could be race conditions right before / after.

*Chair: Significant number of comments not captured but used to modify the proposals to make them agreeable.*

* R2 assumes RRCReconfigurationComplete message is always sent at each LTM execution.
* In RACH-based LTM, the target cell is aware of the UE’s arrival based on the reception of preamble in CFRA and on the reception of Msg3/MsgA in CBRA, like the legacy HO.
* In RACH-less LTM, the target cell is aware of the UE’s arrival based on reception of the first UL transmission from this UE
* In RACH-less LTM, RRCReconfigurationComplete can be the content of the first UL MAC PDU/transmission to indicate UE arrival, i.e. no need to introduce any new signaling to indicate UE arrival (for the MCG-switch case)
* For RACH-based LTM, the UE considers that LTM execution procedure is successfully completed when the RACH is successfully completed.
* For RACH-less LTM, the UE considers that LTM execution procedure is successfully complete when the UE determines the NW has successfully received its first UL data.
* Following behaviors of LTM supervisor timer are agreed:

- 1: The UE starts the LTM supervisor timer, upon reception of the LTM cell switch MAC CE;

- 2: The UE stops the LTM supervisor timer, upon successful completion of LTM cell switch;

- 3: If the LTM supervisor timer for MCG expires, as baseline, the UE considers LTM failure and initiates RRC re-establishment. (SCG switch case FFS)

* LTM supervisor timer is RRC layer timer.
* At RLF or LTM execution failure (for MCG), RAN2 intend to support fast recovery to a candidate cell by LTM execution.
* While configured with LTM candidate cells, the UE can also execute any L3 handover command sent by the network. R2 assumes that is could be up to the network to avoid any issue due to the race condition between LTM execution and RRC Reconfiguration (e.g. L3 HO cmd), e.g. avoid sending LTM switch cmd and L3 HO cmd in the same TB.

*Other parts of this discussion are postponed, can be used as input to discussions next meeting, e.g. the R3 LS*.

[R2-2303709](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303709.zip) LTM Stage 2 open issues Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302508](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302508.zip) Discussion on Applicable Scenarios and Procedure CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302804](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302804.zip) Discussion on LTM procedures vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303008](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303008.zip) LTM procedure for different scenarios Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303024](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303024.zip) Discussion on general procedure for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303425](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303425.zip) Discussion on LTM overall procedure ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303650](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303650.zip) LTM stage-2 design models Lenovo discussion NR\_Mob\_enh2-Core

[R2-2303751](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303751.zip) Remaining issues of LTM execution procedure LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304102](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304102.zip) Discussion on RAN3 LS on approaches during execution for inter-DU LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

Failure handling

[R2-2302485](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302485.zip) Failure handling for L1/L2 triggered mobility NEC discussion NR\_Mob\_enh2-Core

[R2-2303535](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303535.zip) Considerations on failure handling CMCC discussion Rel-18 NR\_Mob\_enh2-Core

Miscellaneous

[R2-2303869](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303869.zip) Discussion on potential enhancement for LTM Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302486](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302486.zip) UE identification during cell swtich NEC discussion NR\_Mob\_enh2-Core

[R2-2302778](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302778.zip) Performance Enhancements for L1/L2 Triggered Mobility Rakuten Symphony discussion Rel-18

[R2-2302779](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302779.zip) Delayed Resource Reservation for inter gNB-DU L1/L2 Triggered Mobility Rakuten Symphony discussion Rel-18

[R2-2303754](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303754.zip) Data Loss at LTM MediaTek Inc. discussion

[R2-2304156](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304156.zip) Discussion on RAN1 related issue of LTM NTT DOCOMO INC. discussion

=> Revised in R2-2304185

[R2-2304185](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304185.zip) Discussion on RAN1 related issue of LTM NTT DOCOMO INC. discussion

[R2-2302731](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302731.zip) Security impacts of inter gNB-DU LTM Rakuten Symphony discussion Rel-18

#### 7.4.2.2 RRC

Consolidate the RRC solutions, in particular candidate configuration / reference configuration / delta configuration. Address open issues, e.g. RRC part of the cell switch without L2 reset.

WID: Configuration and maintenance for multiple candidate cells to allow fast application of configurations for candidate cells [RAN2, RAN3].

Reference candidate configurations etc

[R2-2303166](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303166.zip) On RRC Configuration for LTM: Reference, Delta and Validity Check Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P1

- Ericsson think we can discuss this in the discussion of the running CR.

- Huawei think the definitions are clear (for the purpose of discussion).

- LGE agree with HW. Think the proposals are ok. There is no real confusion.

- Chair: there seems to be no objections to Nokia proposals.

P2-P6

- Intel ok with first part of P2. Think empty configuration is just empty. Think reference config is a separate config, and is not part of serving.

- Apple think P2 can be reworded, can consider that a UE always has a complete config that can be derived from reference.

- Apple think that also for dynamic switching reference config can be empty.

- for P2, Ericsson point out that ref+candidate configs need to be complete configs. Can consider the need for additional indication for the ASN.1 level. Agrees with P5, 3b.

- Nokia agrees that deriving ref config from current is mainly a signalling optimization.

- LGE think that if we derive ref config from current, the size of candidate configs would be larger

- Chair: there is some support for deriving the ref config from current but a majority support that this is explicitly signalled.

3b: a number of companies think this is clear and no need to agree anything.

- Apple think that the candidate config can be complete as well ..

- Chair: 3b – it seems everyone is on the same page.

- HW think that ref+cand configuration is something that we can apply on top of the current config, maybe not always complete.

- HW think that a complete configuration is a configuration that the UE can apply on top of current configuration.

- Ericsson think this is about whether we may apply at LTM cell switch 1) the replacement procedure (full config without L2 reset), or also 2) delta configuration (roughly as today).

P6

- Apple does not support this. QC agrees, and think any specification of this will be complex. MTK think that signalling for early check can be support if this is not re-establishment etc, MTK think the UE should if possible do checking early..

* Discuss terminology for the TS in the RRC stage-3 discussions when/if needed (not at current meeting).
* Whether the Reference configuration is a complete configuration or not is up to the network implementation.
* Reference configuration + LTM candidate configuration (in combination) has to be a complete configuration.
* The reference configuration is always explicitly signalled (not automatically derived from any other config, e.g. current).
* Confirm that only the replacement procedure (the “full config without L2 reset”) is supported for Execution of LTM cell switch.
* The UE may perform early decoding and early validity check. FFS whether Early validity check triggers early re-establishment. FFS the possible timing, FFS subset of cells, FFS if need to specify anything or just up to UE impl, FFS if other signalling to notify network is needed.

[R2-2302732](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302732.zip) Discussion of reference configuration for LTM Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302876](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302876.zip) RRC aspects for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302606](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302606.zip) Configuration and handling of sequential LTM and RACH-less Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302830](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302830.zip) Race conditions in LTM Qualcomm Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303009](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303009.zip) RRC aspects of L1/L2 triggered mobility Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303025](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303025.zip) Discussion on RRC related issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303062](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303062.zip) RRC Aspects of L1L2-triggered Mobility MediaTek Inc. discussion

[R2-2303426](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303426.zip) Remaining issues on LTM RRC aspects ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303711](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303711.zip) RRC Open issues for LTM Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304105](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304105.zip) Discussion on RRC aspects for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302805](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302805.zip) Configurations of Candidate Cell for LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303843](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303843.zip) Discussion on reference configuration LG Electronics France discussion NR\_Mob\_enh2-Core

[R2-2303847](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303847.zip) Discussion on candidate and reference configuration for LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303355](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303355.zip) Details of delta configurations in LTM NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303220](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303220.zip) RRC issues for LTM configuration Lenovo discussion Rel-18

[R2-2303592](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303592.zip) Discussion on RRC Reconfiguration Aspects Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304071](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304071.zip) Remaining issues for RRC Configurations of LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

Measurements

* [AT121bis-e][019][eMob] L1 Measurements (Qualcomm)

Scope: Based on measurements input to current meeting, identify agreements (easy / tentative) and open issues (to be addressed at next meeting),

Intended outcome: Report

Deadline: CB W2 Wednesday

[R2-2304548](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304548.zip) [AT121bis-e][019][eMob] L1 Measurements (Qualcomm) Qualcomm

DISCUSSION

P1

- HW wonder if this allows inclusion in Reference configuration? QC think maybe this is possible, not sure, was not discussed.

- Chair think if this was not discussed we should leave it out, and it is not precluded that this configuration is part of reference configuration.

P2

- Chair wonder how this works with ICBM. QC think that may need a separate discussion

- Ericsson think this is different to ICBM. Can have a disclaimer on the dependency to RAN1 agreements.

- Apple think that we can use can be instead of is, and think the configuration may be specific to candidate cells. Ericsson think it is clear that it is specific for each candidate cell.

- FW think this can work although this config is per cell. Think the UE must limit the measurement so it si not possible for the UE to measure everything from the perspective of all possible cells.

- VDF think we need to take into account R1 views.

- vivo think that this may need to be updated when we have better taken into account ICBM#

- MTK indicate that RAN1 has decided number of reported beams. MTK think that the list outside is what may be taken into consideration before the switch.

- HW comment that as measurements are SSB based, the TCI state will be used after the switch, not before.

- Nokia think not all TCI states are moved outside the cell specific config (only SSB ones).

- Samsung think this is unified TCI state.

P4

- Ericsson wonders how this works with subseq LTM switch. Think there are RAN3 implications.

P6

- CATT think RAN1 is waiting for RAN2 wrt whether ping-pong need to be addressed.

P7

- Ericsson don’t want to agree this now.

P5

- Lenovo think this should be considered in a very restricted way, if at all. Intention is not to replace RRC configuration.

Initial agreements, from RAN2 point of view (may be dep on RAN1 progress).

* The location of RS configuration for SSB-based measurements of candidate cells is external to the ServingCellConfig(s) of current serving cells and external to the configuration of the LTM candidate cells. The RS configuration, per RAN1 agreement, can include PCI or logical ID, SMTC location, frequency location, and SCS.
* RAN2 assumes that the location of configurations of TCI states for the candidate cells (used before/at cell switch) is external to the ServingCellConfig(s) of current serving cells and external to the configuration of the LTM candidate cells (same location as RS configuration).
* RAN2 assumes that For L1 measurements of LTM candidate cells, the reporting configuration is placed inside the ServingCellConfig of current serving cell(s).

*Chair: the agreements above may need to be further evaluated, e.g. wrt subsequent LTM switches.*

* RAN2 assumes that whether filtering, hysteresis, and time-to-trigger are needed for LTM specific L1 measurements is up to RAN1.
* FFS if the LTM specific L1 measurements of an LTM candidate SCell is independent of its activation status.
* Whether to assume L1/L2 signaling to control or change L1 measurement/reporting for LTM needs further discussion (parts may be discussed in RAN1). RAN2 assumes that such control would be limited to certain aspect that need frequent update and restricted by RRC configuration.

[R2-2302831](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302831.zip) RRC Aspects of LTM Qualcomm Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304103](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304103.zip) L1 measurements aspects for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302552](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302552.zip) Discussion on RRC aspects for LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302754](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302754.zip) Considerations on L1 measurement configuration for LTM Panasonic discussion

[R2-2302484](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302484.zip) L1 Measurement for Cell Switch NEC discussion NR\_Mob\_enh2-Core

[R2-2303533](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303533.zip) Considerations on measurment related issues CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303534](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303534.zip) [Draft] LS on measurement related issues for L1L2-based inter-cell mobility CMCC LS out Rel-18 NR\_Mob\_enh2-Core To:RAN1, RAN3, RAN4

[R2-2303710](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303710.zip) LTM Measurement considerations Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

RRC configured L2 reset

[R2-2302832](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302832.zip) Dynamic switch in LTM Qualcomm Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303347](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303347.zip) Remaining issues of RRC configured Layer-2 reset Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303392](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303392.zip) RRC based L2 reset config Apple discussion Rel-18 NR\_Mob\_enh2-Core

Failure

[R2-2303395](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303395.zip) LTM cell switch and link failure handling Apple discussion Rel-18 NR\_Mob\_enh2-Core

withdrawn

R2-2303072 Discussion on RRC Reconfiguration Aspects Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core Withdrawn

#### 7.4.2.3 Cell Switch

Including remaning issues and solutions focused on dynamic cell switch not addressed by the RRC subclause above. Determine remaining parts of the contents of the cell switch command. Discussion can inculde actions and procedure that may be triggered simultaneously, e.g. by other MAC CEs.

Determine more L2 behaviour details of the cell switch without L2 reset.

WID: Dynamic switch mechanism from serving cell to candidate cell (including SpCell and SCell) for the potential applicable scenarios based on L1/L2 signalling [RAN2, RAN1]

Misc

[R2-2302509](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302509.zip) Discussions on Cell Switch CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302592](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302592.zip) Open issues for Cell Switching Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302733](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302733.zip) Discussion on LTM cell switch Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302877](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302877.zip) L2 behaviours and cell switch solutions for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303473](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303473.zip) Further discussion on LTM cell switch procedure Transsion Holdings discussion Rel-18

[R2-2303537](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303537.zip) Considerations on cell switch CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303575](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303575.zip) Discussion on cell switch for LTM Spreadtrum Communications discussion Rel-18

[R2-2303593](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303593.zip) On the cell switch in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303026](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303026.zip) Open issues on dynamic switching for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303065](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303065.zip) Considerations on Cell Switch for LTM Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303356](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303356.zip) Further discussion on Cell switch NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303929](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303929.zip) Discussion on L1L2-triggered mobility ASUSTeK discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304072](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304072.zip) Cell Switch for LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

Cell switch command & Partial MAC reset

[R2-2302806](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302806.zip) L2 Reset and triggering MAC CE for LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303759](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303759.zip) Partial MAC Reset during Intra-DU LTM MediaTek Inc. discussion R2-2300373

[R2-2303712](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303712.zip) LTM MAC CE content and functionality Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303277](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303277.zip) Discussion on partial MAC reset for LTM KDDI Corporation discussion

[R2-2304130](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304130.zip) Further Considerations On Cell Switch Command and MAC Paritial Reset ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

Failure

[R2-2303345](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303345.zip) Discussion on LTM Failure Handling FGI discussion

[R2-2303349](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303349.zip) Handling of connection failure for LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

Security

[R2-2303394](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303394.zip) Avoiding keystream re-use with selective activation of cell-groups Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303651](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303651.zip) Securing LTM Lenovo discussion NR\_Mob\_enh2-Core

Measurements

[R2-2303474](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303474.zip) Discussion on measurement enhancement of L1L2 triggered mobility Transsion Holdings discussion Rel-18

Other L2 impacts

[R2-2303752](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303752.zip) Discussion on LTM timer operation LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304106](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304106.zip) RRC-MAC cross-layer aspects during LTM cell switch execution Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

Withdrawn or revised

R2-2303073 On the cell switch in LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core Withdrawn

### 7.4.3 NR-DC with selective activation cell of groups

Including outcome of [Post121][044][eMob] SCG Selective Activation in NR-DC Signalling interaction (QC).

CR

[R2-2303028](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303028.zip) TP of 38.331 for selective activation of SCGs for NR-DC OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303428](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303428.zip) TP to 37.340 for SCG selective activation and CHO with candidate SCGs ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

- MTK think we need more progress to discuss CRs and propose to wait until next meeting.

- MTK Asks whether there is a procedure for CR rapporteurships. Chair: has asked WI rapporteurs to coordinate CR editors.

Chair: can start treating the CRs from next meeting. WI Rapporteur coordinates the CR rapporteurships.

Incoming Email Discussion

[R2-2302934](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302934.zip) Report of [Post121][044][eMob] SCG Selective Activation in NR-DC Signalling interaction Qualcomm Incorporated discussion Rel-18

DISCUSSION

P1

- Nokia think that the procedure can be the same but the actual configuration will be different. VDF think we can look at the differences later. Chair think the P1 includes what Nokia thinks.

P3

- HW think we don’t need to follow the legacy behaviour for R18 config, as the legacy beh involves some complexity. OPPO think that the legacy behaviour can be supported by Rel-17 configs.

- Chair: think we will not take all steps on this now.

P4

- LGE think O2 can not work.

- Ericsson and HW think O2 can work,

- HW think that each candidate can have multiple execution conditions and the execution condition to apply depends on the current serving SN

P5

- Xiaomi wonder it the initial source SN can generate the execution conditions for subsequent CPC. Nokia think that execution condition can be the same and the candidate SN can choose to modify parameters.

- Lenovo has similar questions as Xiaomi. Can keep open as for previous proposal.

P7

- VDF think MCG config is only one, can keep FFS if this is a reference or not.

- MTK think there is only one single reference config, and this is for SCG. Many companies agree we should assume one ref.

- OPPO wonder if we need to differentiate between R17 R18 candidate cell. Chair think we can look at this later

* For the reference configuration for SCG Selective Activation, aim at following similar design as LTM.
* For inter-SN SCG Selective Activation, the RRC reconfiguration message containing the Rel-18 CPC configurations provided to the UE is in MN format.
* For MN initiated inter-SN SCG selective activation, source MN generates the execution conditions for the initial CPAC.

FFS on the following options for subsequent CPC:

Option 1: Source MN generates the execution conditions for all subsequent CPC.

Option 2: Candidate SN may generate execution conditions for subsequent CPC.

* For SN initiated inter-SN SCG selective activation, source SN generates the execution conditions for the initial CPC.   
  FFS if Candidate SN may generate/modify execution conditions for subsequent CPC
* Assume for now that there is only one reference configuration.
* The following may be included in the initial RRC reconfiguration message containing the Rel-18 CPC configurations:

1. Reference SCG configuration (Optionality FFS). Assume as for LTM Reference configuration may be empty.

FFS whether MCG configuration is included.

FFS RRC model for the reference configuration.

1. Initial List of candidate target PSCells (this list can be updated by the network, e.g., cells may be added or removed) with associated target SCG configurations. FFS whether the MCG configurations associated with the target SCG configurations are included.

3. The execution conditions associated with each candidate target PSCell.

a. For MN initiated procedure, execution conditions based on event A4 are supported. FFS whether A3/A5 are supported.

b. For SN initiated procedure, execution conditions based on events A3/A5 are supported.

* UE will keep R18 CPC configurations after CPC execution. It should be possible to release a CPC candidate explicitly by RRC reconfiguration procedure.

Security

[R2-2304186](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304186.zip) Discussion on selective activation NTT DOCOMO INC. discussion

General

[R2-2302734](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302734.zip) Discussion on selective activation of cell groups Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303606](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303606.zip) Discussion on selective SCG activation MediaTek Inc. discussion NR\_Mob\_enh2-Core R2-2300817

[R2-2303191](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303191.zip) Further analysis on remaining issues for selective activation Nokia, Nokia Shanghai Bell discussion

[R2-2302878](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302878.zip) NR-DC with selective SCG activatiion Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302936](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302936.zip) SCG Selective Activation in NR-DC Qualcomm Incorporated discussion Rel-18

[R2-2302510](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302510.zip) Discussion on Selective Activation of Cell Groups in NR-DC CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302807](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302807.zip) Remaining issues for NR-DC with selective activation cell of groups vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303027](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303027.zip) Discussion on selective activation of SCGs for NR-DC OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303066](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303066.zip) Considerations on Subsequent CPAC after SCG Change Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303239](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303239.zip) Discussion on issues related to SCG selective activation Lenovo discussion Rel-18

[R2-2303335](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303335.zip) SCG failure handling with selective activation ITRI discussion NR\_Mob\_enh2-Core

[R2-2303357](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303357.zip) Further discussion on selective SCG activation NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303408](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303408.zip) Execution condition in selective SCG activation Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303427](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303427.zip) Consideration on SCG selective activation ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303475](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303475.zip) Discussion on Selective Activation of Cell Groups in NR-DC Transsion Holdings discussion Rel-18

[R2-2303516](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303516.zip) Discussion on NR-DC with selective activation of cell groups CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303566](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303566.zip) Discussion on NR-DC with SCG selective activation Spreadtrum Communications discussion Rel-18

[R2-2303625](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303625.zip) Subsequent change of SCGs and selective activation Interdigital Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303680](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303680.zip) NR-DC with selective activation Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303848](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303848.zip) Discussion on NR-DC with selective activation of the cell groups Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303890](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303890.zip) Discussion on NR-DC with selective activation of the cell groups. DENSO CORPORATION discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304024](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304024.zip) Additional Aspects for Selective Cell Group Activation LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304073](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304073.zip) Discussion of SCG selective activation Sharp discussion Rel-18 NR\_Mob\_enh2-Core

Revised or withdrawn

[R2-2304158](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2304158.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2304158.zip) Discussion on selective activation NTT DOCOMO INC. discussion

### 7.4.4 CHO including target MCG and candidate SCGs for CPC CPA in NR-DC

Include Stage-3 RRC proposals (in order to have better discussion).

[R2-2302751](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302751.zip) Discussion on CHO including candidate SCGs Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

P4/P5

- Nokia think P5 may not be needed. Think order doesn’t need to be specified. Intel think error handling may be simpler when the order is known.

- Chair: there is strong support for P4, maybe not P5 (a number of companies agrfee w Nokia).

- HW think we can just agree on principle

P6

- Ericsson think the network can provide both CHO-only and CHO+CPC configurations, so the only new case is the joint CHO+CPC.

- HW agrees with Ericsson, and think that if the UE excutes CHO the measurement configuration for continuing eval for CPC will be dropped. Ericsson agree with HW that it is likely that we need to update config after MN change. QC agrees, IDT think indeed the measurement config may not be valid, may be security implication.

- LG are ok to keep evaluating, but can be simpler – the UE doesn’t need to indicate ..

- Chair: there is some support but also some opposition and indications that we may need to work.

- VDF think this can be made to work, but think this should be simple.

- OPPO think that after CHO, the SCG can be released if needed.

For the CHO+CPC case:

* When both CHO and CPC conditions are met, both CHO and CPC cell change is executed.
* Baseline: The UE waits until both CHO and CPC conditions are met (always). (furthermore, it is assumed that if needed the network can provide a complementary CHO-only configuration, to avoid failures in deployments where failure would otherwise be likely to happen).
* Alternative: FFS if When CHO condition is met, but CPC condition is not met, CHO execution is triggered (and somehow source SCG can be released). IF allowed in the new configuration the UE may continue evaluation of CPC/CPA conditions.

[R2-2302511](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302511.zip) Discussion on CHO including target MCG and candidate SCGs CATT discussion Rel-18 NR\_Mob\_enh2-Corec

[R2-2302808](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302808.zip) Discussion on evaluation and execution of CHO with CPAC vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302809](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302809.zip) Discussion on CHO with CPAC signaling procedure vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2302935](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302935.zip) CHO with multiple candidate SCGs Qualcomm Incorporated discussion Rel-18

[R2-2303029](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303029.zip) Discussions on CHO including target MCG and candidate SCGs OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303167](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303167.zip) Next Steps for CHO with CPAC in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303221](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303221.zip) Consideration on CHO with candidate SCG for CPAC Lenovo discussion Rel-18

[R2-2303344](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303344.zip) Discussion on Conditional Handover with Candidate SCGs for CPAC FGI discussion

[R2-2303414](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303414.zip) HO execution of CHO with candidate SCGs Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303429](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303429.zip) Discussion on CHO with candidate SCGs ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303551](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303551.zip) CHO including target MCG and candidate SCGs for CPC/CPA Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303567](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303567.zip) Discussion on CHO with CPAC in NR-DC Spreadtrum Communications discussion Rel-18

[R2-2303607](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303607.zip) Discussion on CHO with candidate SCG MediaTek Inc. discussion NR\_Mob\_enh2-Core R2-2300818

[R2-2303626](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303626.zip) CHO with associated SCG Interdigital Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303681](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303681.zip) CHO with associated CPC or CPA Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303794](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303794.zip) Discussion CHO including target MCG and candidate SCGs for CPAC CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303849](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303849.zip) Discussion on CHO with CPAC Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2303870](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303870.zip) Considerations on CHO with CPA/CPC Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2304025](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304025.zip) Simultaneous Evaluation for CHO with CPAC LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

## 7.5 XR Enhancements for NR

(NR\_XR\_enh-Core; leading WG: RAN2; REL-18; WID: [RP-230786](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_99/Docs/RP-230786.zip))

Time budget: 2 TU

Tdoc Limitation: 5 Tdocs

### 7.5.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, SA2/SA4 progress reports)

[R2-2302715](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302715.zip) Work Plan for Rel-18 WI on XR Enhancements for NR Nokia, Qualcomm (Rapporteurs) Work Plan Rel-18 NR\_XR\_enh-Core

[R2-2302716](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302716.zip) SA2 Status for XR Nokia, Qualcomm (Rapporteurs) discussion Rel-18 NR\_XR\_enh-Core

[R2-2302717](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302717.zip) SA4 Status for XR Nokia, Qualcomm (Rapporteurs) discussion Rel-18 NR\_XR\_enh-Core

[R2-2302718](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302718.zip) Stage 2 Overview of XR Enhancements Nokia, Qualcomm (Rapporteurs) draftCR Rel-18 38.300 17.4.0 B NR\_XR\_enh-Core

### 7.5.2 XR awareness

Including discussion on XR traffic assistance information from UE to network (e.g. to support the tethering use case), e.g. periodicity, UL traffic arrival information

Including discussion on the use of PDU set information in RAN for DL and UL (e.g. PSI, PSIHI, PSER, PSDB, EDBI) and what (if anything) needs to be specified in RAN2.

[R2-2302513](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302513.zip) Discussion on XR awareness Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2302711](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302711.zip) Discussion on XR awareness Xiaomi Communications discussion

[R2-2302719](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302719.zip) PDU Set and Data Burst Information Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2302756](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302756.zip) Enhancements for XR awareness CATT discussion Rel-18 NR\_XR\_enh-Core

[R2-2302810](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302810.zip) Discussion on XR awareness vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2302850](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302850.zip) XR Awareness ZTE Corporation, Sanechips discussion

[R2-2302895](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302895.zip) XR awareness InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2302909](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302909.zip) XR awareness enhancements in RAN Intel Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2302938](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302938.zip) Discussion on XR awareness Futurewei discussion Rel-18 NR\_XR\_enh-Core

[R2-2302950](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302950.zip) Considerations on XR awareness NEC discussion Rel-18 NR\_XR\_enh-Core

[R2-2302996](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302996.zip) Considerations on delay reporting and UL traffic arrival information KDDI Corporation discussion

[R2-2303081](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303081.zip) Considerations on XR PDU prioritization Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2303082](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303082.zip) Some considerations on PDU set information and UL traffic arrival information Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2303124](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303124.zip) Discussion on XR awareness TCL Communication discussion Rel-18

[R2-2303226](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303226.zip) Discussion on PDU sets awareness in RAN Lenovo discussion Rel-18

[R2-2303301](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303301.zip) RAN awareness of XR characteristics MediaTek Inc. discussion Rel-18 NR\_XR\_enh

[R2-2303312](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303312.zip) Discussion on XR awareness OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2303358](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303358.zip) Views on Enhancements for XR-Awareness Apple discussion Rel-18 NR\_XR\_enh-Core

[R2-2303578](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303578.zip) Discussion on XR awareness Spreadtrum Communications discussion Rel-18

[R2-2303595](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303595.zip) Discussion on UL assistance information for XR traffic Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

[R2-2303719](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303719.zip) Discussion on XR awareness Ericsson discussion Rel-18 NR\_XR\_enh

[R2-2303741](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303741.zip) On XR awareness Google Inc. discussion

[R2-2303786](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303786.zip) Discussion on XR-awareness NTT DOCOMO, INC. discussion

[R2-2303800](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303800.zip) Considerations on PDU sets and Traffic assistance information for XR CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2303930](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303930.zip) Discussion on PDU Set Information on UL for UE ASUSTeK discussion Rel-18 NR\_XR\_enh-Core

[R2-2303986](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303986.zip) Discussion on UL jitter handling Samsung discussion Rel-18 NR\_XR\_enh-Core

[R2-2303998](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303998.zip) Discussion on PDCP duplication based on PDU set importance LG Electronics Inc. discussion NR\_XR\_enh-Core

### 7.5.3 XR-specific power saving

Including discussion on solutions for DRX cycles with XR and the potential impacts to RAN1/4 specification (if any).

Including discussion on solutions for SFN wrap-around with XR and the potential impacts to RAN1/4 specification (if any).

[R2-2302514](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302514.zip) DRX enhancements for XR Qualcomm Incorporated, MediaTek, CATT, vivo, NEC discussion Rel-18 NR\_XR\_enh-Core

[R2-2302583](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302583.zip) Discussion on the SFN wrap-around problem for XR Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh

[R2-2302599](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302599.zip) Discussion on power saving aspects for XR Continental Automotive discussion

[R2-2302710](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302710.zip) Discussing on XR-specific C-DRX enhancements Xiaomi Communications discussion

[R2-2302793](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302793.zip) XR-specific power saving enhancement Google Inc. discussion

[R2-2302811](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302811.zip) Discussion on DRX enhancements for XR Power Saving vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2302853](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302853.zip) XR-specific power saving ZTE Corporation, Sanechips discussion

[R2-2302896](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302896.zip) XR-specific power saving InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2302910](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302910.zip) Summary of DRX enhancements for XR traffic Intel Corporation, Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2303132](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303132.zip) Discussion on C-DRX enhancement for XR NEC Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2303227](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303227.zip) Discussion of DRX enhancement Lenovo discussion Rel-18

[R2-2303302](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303302.zip) SFN wrap-around solution for XR DRX MediaTek Inc., CATT, LGE, Ericsson, NEC, DENSO discussion Rel-18 NR\_XR\_enh

[R2-2303359](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303359.zip) C-DRX enhancements for XR Apple discussion Rel-18 NR\_XR\_enh-Core

[R2-2303544](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303544.zip) Discussion on DRX enhancements CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2303720](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303720.zip) Discussion on XR-specific power saving Ericsson discussion Rel-18 NR\_XR\_enh

[R2-2303755](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303755.zip) Multiple DRX configuration for XR power saving LG Electronics Inc., InterDigital, NEC, ZTE discussion Rel-18 NR\_XR\_enh-Core

[R2-2303861](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303861.zip) DRX cycle alignment for XR Nokia, Nokia Shanghai Bell, CMCC, China Unicom, DENSO CORPORATION, Ericsson, Intel, Google Inc., Huawei, HiSilicon, Samsung, Xiaomi discussion Rel-18 NR\_XR\_enh-Core

[R2-2303867](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303867.zip) Discussion on power saving scheme for XR Samsung discussion Rel-18 NR\_XR\_enh

[R2-2303892](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303892.zip) Discussion on various frame rates supported for XR-specific power saving III discussion

[R2-2304172](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304172.zip) C-DRX enhancements for XR-specific power saving DENSO CORPORATION discussion Rel-18 NR\_XR\_enh-Core

### 7.5.4 XR-specific capacity improvements

No documents should be submitted to 7.5.4. Please submit to 7.5.4.x

#### 7.5.4.1 BSR enhancements for XR

Including discussion on details of new BSR table(s): Are they fixed or semi-static? Is linear or exponential stepping used? Will there be one or more new tables? Will a new BSR table be per LCH or per LCG? How will the delay/remaining time reporting work?

[R2-2302515](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302515.zip) BSR enhancements for XR Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2302527](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302527.zip) Discussion on BSR enhancements for XR Futurewei discussion Rel-18 NR\_XR\_enh-Core

[R2-2302615](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302615.zip) BSR enhancements for XR MediaTek Inc. discussion Rel-18

[R2-2302709](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302709.zip) Discussing on BSR enhancements for XR capacity Xiaomi Communications discussion

[R2-2302757](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302757.zip) New BSR tables and delay report CATT, Dell Technologies discussion Rel-18 NR\_XR\_enh-Core

[R2-2302758](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302758.zip) PDU set BSR CATT, Dell Technologies discussion Rel-18 NR\_XR\_enh-Core

[R2-2302812](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302812.zip) Discussion on BSR enhancements for XR vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2302851](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302851.zip) BSR enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2302911](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302911.zip) BSR enhancements for XR Intel Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2302972](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302972.zip) Discussion on BSR enhancements for XR TCL Communication Ltd. discussion

[R2-2302998](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302998.zip) Considerations on XR capacity improvements KDDI Corporation discussion NR\_XR\_enh-Core R2-2300641

[R2-2303010](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303010.zip) Discussions on delay information reporting Fujitsu discussion Rel-18 NR\_XR\_enh-Core

[R2-2303083](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303083.zip) Considerations on XR UL PDU set information Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2303114](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303114.zip) Discussion on BSR enhancement for delay information report NEC Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2303203](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303203.zip) Discussion on UE Feedback enhancements Lenovo discussion Rel-18 NR\_XR\_enh-Core

[R2-2303313](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303313.zip) Discussion on BSR enhancement for XR OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2303328](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303328.zip) New BS table(s) and BSR trigger(s) NEC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2303343](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303343.zip) Considerations on new buffer status report table FGI discussion

[R2-2303360](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303360.zip) Views on BSR Enhancements for XR Apple discussion Rel-18 NR\_XR\_enh-Core

[R2-2303530](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303530.zip) Consideration on BSR enhancement for XR CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2303584](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303584.zip) BSR enhancement on XR Spreadtrum Communications discussion Rel-18

[R2-2303629](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303629.zip) BSR enhancements for XR Interdigital Inc. discussion Rel-18 NR\_XR\_enh-Core

[R2-2303701](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303701.zip) Discussion on BSR Enhancements and Delay Information Meta discussion Rel-18 NR\_XR\_enh-Core

[R2-2303721](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303721.zip) Discussion on BSR enhancements for XR Ericsson discussion Rel-18 NR\_XR\_enh

[R2-2303826](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303826.zip) Discussion on MAC enhancements for XR-specific capacity improvement Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh

[R2-2303862](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303862.zip) BSR enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2303889](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303889.zip) Discussion on BSR enhancements for XR III discussion NR\_XR\_enh-Core

[R2-2303982](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303982.zip) Discussion on BSR enhancements for XR Samsung discussion Rel-18 FS\_NR\_XR\_enh

[R2-2304008](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304008.zip) Discussion on BSR enhancement and delay information report LG Electronics Inc. discussion Rel-18 NR\_XR\_enh-Core

[R2-2304043](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304043.zip) Discussion on BSR enhancements for XR Google Inc. discussion Rel-18 NR\_XR\_enh-Core

[R2-2304089](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304089.zip) Discussion on residual resource allocation for XR Google Inc. discussion NR\_XR\_enh-Core

#### 7.5.4.2 Discard operation for XR

Including discussion how to achieve PDU-set based discard in PDCP layer for UL and DL (e.g. do we use discard timer or have another way to achieve the discard) and whether that can have impact to RLC layer.

Including discussion on impact of PSI and PSIHI for PDU discard at UE and what (if anything) needs to be specified in RAN2.

[R2-2302516](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302516.zip) Discussion on discard operation for XR Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2302708](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302708.zip) Discussing on PDU discarding of XR traffic Xiaomi Communications discussion

[R2-2302720](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302720.zip) Discard operation for XR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2302759](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302759.zip) Discard Operation for XR CATT discussion Rel-18 NR\_XR\_enh-Core

[R2-2302813](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302813.zip) Discussion on discard operation for XR vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2302854](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302854.zip) PDU discard for XR ZTE Corporation, Sanechips discussion

[R2-2302897](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302897.zip) Discard operation for XR InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2302912](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302912.zip) Discard operation for XR Intel Corporation discussion Rel-18 NR\_XR\_enh-Core

[R2-2302937](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302937.zip) Discussion on discard operation for XR Futurewei discussion Rel-18 NR\_XR\_enh-Core

[R2-2302964](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302964.zip) Discard Operation for XR Samsung R&D Institute India discussion Rel-18

[R2-2302970](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302970.zip) Discussions on discard operation for XR TCL Communication Ltd. discussion

[R2-2303011](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303011.zip) Discussions on PDU discard based on PDU Set Importance Fujitsu discussion Rel-18 NR\_XR\_enh-Core

[R2-2303199](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303199.zip) Discussion on discarding operation for XR Motorola Mobility France S.A.S discussion Rel-18 NR\_XR\_enh-Core

[R2-2303303](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303303.zip) PDU discard based on PSDB and PDU set importance MediaTek Inc. discussion Rel-18 NR\_XR\_enh R2-2301371

[R2-2303314](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303314.zip) Discussion on discard operation for XR OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2303329](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303329.zip) PDU discard NEC discussion Rel-18 FS\_NR\_XR\_enh

[R2-2303361](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303361.zip) Views on PDU Discard Operation for XR Apple discussion Rel-18 NR\_XR\_enh-Core

[R2-2303579](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303579.zip) Discussion on XR discard Spreadtrum Communications discussion Rel-18

[R2-2303700](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303700.zip) Discussion on PDU Discard Operation for XR Meta discussion Rel-18 NR\_XR\_enh-Core

[R2-2303722](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303722.zip) Discussion on PDU Discard Ericsson discussion Rel-18 NR\_XR\_enh

[R2-2303788](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303788.zip) Discussion on PDU discard NTT DOCOMO, INC. discussion

[R2-2303801](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303801.zip) Discard operation for XR CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2303830](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303830.zip) Discussion on PDU set discarding for XR traffic Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh

[R2-2303931](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303931.zip) Discussion on PDU Set discard in PDCP layer for DL and UL ASUSTeK discussion Rel-18 NR\_XR\_enh-Core

[R2-2303999](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303999.zip) Discussion on the discard for XR LG Electronics Inc. discussion NR\_XR\_enh-Core

#### 7.5.4.3 Configured Grant enhancements for XR

Including RAN2-specific aspects of Multiple Configured Grant (CG) PUSCH transmission occasions in a period of a single CG PUSCH configuration.

Including RAN2-specific aspects of dynamic indication of unused CG PUSCH occasion(s) based on Uplink Control Information (UCI) by the UE.

Including discussion on how retransmission-less CG defined for NTN could work with XR (as per RAN#99 discussion).

NOTE: Topics other than retransmission-less CG may be deprioritized in this meeting.

[R2-2302517](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302517.zip) Enhancements to configured grant for XR Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

[R2-2302584](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302584.zip) Discussion on retransmission-less CG for XR Huawei, Apple, Google, HiSilicon, Intel, Lenovo, MediaTek, Meta, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh

[R2-2302760](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302760.zip) On the need for retransmission-less CG for XR CATT discussion Rel-18 NR\_XR\_enh

[R2-2302792](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302792.zip) Configured Grant enhancements for XR Google Inc. discussion

[R2-2302814](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302814.zip) Discussion on CG enhancements for XR vivo discussion Rel-18 NR\_XR\_enh-Core

[R2-2302852](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302852.zip) Configured Grant enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2302898](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302898.zip) Configured Grant enhancements for XR InterDigital discussion Rel-18 NR\_XR\_enh-Core

[R2-2303084](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303084.zip) Retransmission-less CG for some XR traffic Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2303085](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303085.zip) Configured Grant enhancements for XR Sony discussion Rel-18 NR\_XR\_enh-Core

[R2-2303198](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303198.zip) Discussion of CG enhancements Lenovo discussion Rel-18 NR\_XR\_enh-Core

[R2-2303315](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303315.zip) Discussion on configured grant enhancement for XR OPPO discussion Rel-18 NR\_XR\_enh-Core

[R2-2303362](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303362.zip) Views on Configured Grant Enhancements for XR Apple discussion Rel-18 NR\_XR\_enh-Core

[R2-2303531](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303531.zip) Consideration on Configured Grant enhancement for XR CMCC discussion Rel-18 NR\_XR\_enh-Core

[R2-2303839](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303839.zip) Configured Grant enhancements for XR Ericsson discussion Rel-18 NR\_XR\_enh

[R2-2303863](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303863.zip) CG enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2303891](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303891.zip) Discussion on Configured Grant enhancements for XR III discussion NR\_XR\_enh-Core

[R2-2303987](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303987.zip) Multiple CG occasions and retransmission-less CG Samsung discussion Rel-18 NR\_XR\_enh-Core

[R2-2304009](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304009.zip) Discussion on retransmission-less CG for XR LG Electronics Inc. discussion Rel-18 NR\_XR\_enh-Core

[R2-2304120](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304120.zip) Retransmission-less CG for XR MediaTek Inc. discussion Rel-18

## 7.6 IoT NTN enhancements

(IoT\_NTN\_enh-Core; leading WG: RAN1; REL-18; WID: RP-223519)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.6.1 Organizational

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

[R2-2302675](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302675.zip) Stage-3 running CR for TS 36.321 for Rel-18 IoT-NTN MediaTek Inc. CR Rel-18 36.321 17.4.0 1564 - C LTE\_NBIOT\_eMTC\_NTN-Core Withdrawn

[R2-2303097](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303097.zip) 36331 running CR for IOT NTN Huawei, HiSilicon draftCR Rel-18 36.331 17.4.0 B IoT\_NTN\_enh-Core

[R2-2303838](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303838.zip) Running CR for R18 IoT NTN Ericsson discussion Rel-18 36.300 IoT\_NTN\_enh

[R2-2303950](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303950.zip) Stage-3 running CR for TS 36.321 for Rel-18 IoT-NTN MediaTek Inc. draftCR Rel-17 36.321 17.4.0 IoT\_NTN\_enh

### 7.6.2 Performance Enhancements

#### 7.6.2.1 HARQ enhancements

[R2-2302533](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302533.zip) Discussion on HARQ enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302534](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302534.zip) Draft LS to RAN1 on HARQ enhancement for IoT NTN OPPO LS out Rel-18 IoT\_NTN\_enh-Core To:RAN1

[R2-2302557](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302557.zip) Discussion on the HARQ enhancements in IoT NTN CATT discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302672](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302672.zip) On Disabling HARQ Feedback in IoT-NTN MediaTek Inc. discussion

[R2-2302819](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302819.zip) Further discussion on HARQ enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303041](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303041.zip) Enhancement for UL and DL HARQ processes Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core R2-2300889

[R2-2303517](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303517.zip) Discussion on the HARQ enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303644](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303644.zip) Discussion on Timing Advance Report MAC CE transmission in eMTC NTN Nokia, Nokia Shanghai Bell, Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core R2-2301659

[R2-2303713](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303713.zip) Disabling HARQ feedback for IoT-NTN Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303837](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303837.zip) R18 IoT NTN HARQ enhancements Ericsson discussion Rel-18 IoT\_NTN\_enh

[R2-2303964](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303964.zip) Discussion on HARQ enhancements Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2304030](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304030.zip) Discussion on HARQ enhancement Xiaomi discussion Rel-18

[R2-2304032](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304032.zip) LS on NPDCCH monitoring for HARQ mode B Xiaomi LS out Rel-18 To:RAN1

#### 7.6.2.2 GNSS operation enhancements

[R2-2302543](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302543.zip) Discussion on GNSS operation for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302558](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302558.zip) Discussion on GNSS operation in connected mode CATT discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302673](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302673.zip) GNSS operation enhancements MediaTek Inc. discussion

[R2-2302820](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302820.zip) Procedure of GNSS reacquisition ZTE Corporation, Sanechips discussion IoT\_NTN\_enh-Core

[R2-2303044](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303044.zip) GNSS fix in RRC\_CONNECTED Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303250](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303250.zip) On GNSS position fix in RRC\_CONNECTED for IoT NTN Lenovo discussion Rel-18

[R2-2303297](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303297.zip) Discussion on the GNSS Validity Reporting in Connected State Google Inc. discussion Rel-18

[R2-2303330](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303330.zip) GNSS fix in connected mode NEC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303404](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303404.zip) Improved GNSS Operation Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2303518](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303518.zip) Discussion on GNSS enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303645](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303645.zip) Discussion on enhancements on GNSS operation for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303714](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303714.zip) GNSS acquisition and reporting for IoT NTN Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303836](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303836.zip) R18 IoT NTN GNSS operation enhancements Ericsson discussion Rel-18 IoT\_NTN\_enh

[R2-2303965](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303965.zip) Discussion on GNSS operation enhancements Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2304017](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304017.zip) On improved GNSS operation for IoT NTN Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

[R2-2304029](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304029.zip) Discussion on GNSS operation enhancement Xiaomi discussion Rel-18

[R2-2304183](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304183.zip) GNSS acquisition and reporting for IoT NTN InterDigital, Europe, Ltd. discussion [R2-2303714](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303714.zip) Rel-18 IoT\_NTN\_enh-Core

### 7.6.3 Mobility Enhancements

#### 7.6.3.1 Enhancements for neighbour cell measurements

Including outcome of:

[Post121][105][IoT NTN Enh] Neighbour cell assistance information (Qualcomm)

[R2-2302512](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302512.zip) NTN mobility enhancements for earth-moving cell scenario ito. measurement initiation, cell reselection and handover PANASONIC R&D Center Germany discussion IoT\_NTN\_enh

[R2-2302535](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302535.zip) Discussion on measurement enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302559](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302559.zip) Discussion on the mobility enhancements for IoT NTN UE CATT discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302674](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302674.zip) Enhancements for neighbour cell measurements MediaTek Inc. discussion

[R2-2302700](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302700.zip) Discussion on neighbour cell measurements in IoT NTN Intel Corporation discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302821](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302821.zip) Details of new triggers for neighbor cell measurement ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303043](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303043.zip) Satellite and coverage information signalling Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303098](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303098.zip) Discussion on mobility enhancements Huawei, HiSilicon, Turkcell discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303192](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303192.zip) connected mode measurement triggering conditions and RLF enhancements for IoT-NTN Nokia, Nokia Shanghai Bell discussion

[R2-2303251](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303251.zip) Further considerations on neighbour cell measurement in RRC\_CONNECTED Lenovo discussion Rel-18

[R2-2303406](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303406.zip) Neighbour cell measurements before RLF for NB-IoT Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2303436](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303436.zip) Consideration on enhancements for the neighbour cell measurement Xiaomi discussion

[R2-2303519](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303519.zip) Discussion on mobility enhancements for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303652](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303652.zip) Report of [POST121][105][IoT NTN Enh] Neighbour cell assistance information Qualcomm Technologies Ireland discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303715](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303715.zip) Neighbour cell measurements before RLF Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2304016](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304016.zip) On enhancements for neighbour cell measurements Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

[R2-2304065](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304065.zip) Neighbour cell measurements before RLF Ericsson discussion Rel-18 IoT\_NTN\_enh-Core

#### 7.6.3.2 Other

[R2-2303252](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303252.zip) IDLE mobility for moving cells in IoT NTN Lenovo discussion Rel-18

[R2-2303405](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303405.zip) Mobility enhancement in IoT NTN Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2304018](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304018.zip) On IoT NTN CHO and other mobility enhancements Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

### 7.6.4 Enhancements to discontinuous coverage

[R2-2302560](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302560.zip) Discussion on enhancements to discontinuous coverage CATT discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2302822](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302822.zip) RAN2 enhancements for discontinuous coverage ZTE Corporation, Sanechips discussion IoT\_NTN\_enh-Core R2-2301057

[R2-2303042](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303042.zip) RRC release procedure in discontinuous coverage Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh-Core R2-2300890

[R2-2303052](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303052.zip) Enhancements to discontinuous coverage Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303111](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303111.zip) Considerations on Supporting Discontinuous Coverage NEC Europe Ltd discussion Rel-18 IoT\_NTN\_enh-Core R2-2300878

[R2-2303193](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303193.zip) On RAN impacts for Discontineous coverage enhancements Nokia, Nokia Shanghai Bell discussion

[R2-2303253](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303253.zip) On mobility and power saving issues for discontinuous coverage Lenovo discussion Rel-18

[R2-2303407](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303407.zip) Support on discontinuous coverage in IoT NTN Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2303437](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303437.zip) Enhancements to discontinuous coverage Xiaomi discussion

[R2-2303476](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303476.zip) Discussion on enhancement to discontinuous coverage for IoT NTN Transsion Holdings discussion Rel-18

[R2-2303520](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303520.zip) Discussion on the discontinuous coverage for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303576](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303576.zip) Discussion on power saving enhancements for supporting discontinuous coverage Spreadtrum Communications discussion Rel-18

[R2-2303716](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303716.zip) IoT-NTN discontinuous coverage enhancements Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2303735](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303735.zip) Enhancements to discontinuous coverage Ericsson discussion Rel-18 IoT\_NTN\_enh

[R2-2303963](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303963.zip) Discussion on discontinuous coverage Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh-Core Late

[R2-2304081](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304081.zip) Discussion on the UE Unreachability Periods Google Inc. discussion Rel-18

[R2-2304160](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304160.zip) Discussion on Enhancements related to discontinuous coverage Rakuten Mobile, Inc discussion R2-2208663 Rel-18

## 7.7 NR NTN enhancements

(NR\_NTN\_enh -Core; leading WG: RAN1; REL-18; WID: RP-223534)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

[R2-2303162](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303162.zip) R18 WI NR-NTN-enh work plan at RAN1, 2 and 3 THALES Work Plan Rel-18 NR\_NTN\_enh

### 7.7.1 Organizational

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

[R2-2302428](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302428.zip) Reply LS on RACH-less handover in NTN (R4-2303239; contact: OPPO) RAN4 LS in Rel-18 NR\_NTN\_enh-Core To:RAN1 Cc:RAN2

[R2-2302694](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302694.zip) Discussion on NR NTN UE capabilities Intel Corporation discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302695](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302695.zip) Draft 331 CR for NR NTN UE capabilities Intel Corporation draftCR Rel-18 38.331 17.4.0 B NR\_NTN\_enh-Core

[R2-2302696](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302696.zip) Draft 306 CR for NR NTN UE capabilities Intel Corporation draftCR Rel-18 38.306 17.4.0 B NR\_NTN\_enh-Core

[R2-2303137](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303137.zip) Stage-3 running 304 CR for NTN ZTE Corporation, Sanechips draftCR Rel-18 38.304 17.4.0 NR\_NTN\_enh-Core

[R2-2303726](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303726.zip) Stage 3 NTN running CR for 38.321 - RAN2#121bise InterDigital draftCR Rel-18 38.321 17.4.0 B NR\_NTN\_enh-Core

[R2-2303737](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303737.zip) Stage 3 Running RRC CR for NR NTN Rel-18 Ericsson CR Rel-18 38.331 17.4.0 4023 - B NR\_NTN\_enh

### 7.7.2 Coverage Enhancements

[R2-2302536](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302536.zip) Discussion on initial blind Msg3 retransmission for NTN OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302798](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302798.zip) Discussion on blind Msg3 retransmission Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh

[R2-2303326](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303326.zip) Discussion on coverage enhancement for R18 NTN vivo discussion

R2-2303458 Discussion on coverage enhancement for R18 NTN vivo discussion Withdrawn

[R2-2303727](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303727.zip) Blind Msg3 retransmission in Rel-18 NTN InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303834](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303834.zip) R18 NR NTN Coverage enhancements Ericsson discussion Rel-18 NR\_NTN\_enh

[R2-2303997](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303997.zip) Discussion on inital blind Msg3 retransmssion LG Electronics Inc. discussion NR\_NTN\_enh-Core

### 7.7.3 Network verified UE location

[R2-2302556](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302556.zip) Discussion on multiple-RTT based positioning in NTN Quectel discussion

[R2-2302561](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302561.zip) Discussion on Network Verified UE Location CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302679](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302679.zip) On Network Verified UE Location in NR NTN MediaTek Inc. discussion

[R2-2302794](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302794.zip) On Network verified UE location Nokia, Nokia Shanghai Bell discussion NR\_NTN\_enh-Core R2-2301354

[R2-2302848](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302848.zip) Discussion on network verified UE location Ericsson discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303036](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303036.zip) Single satellite Multi-RTT based positioning Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303138](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303138.zip) Consideration on NW verified UE location ZTE Corporation, Sanechips discussion Rel-18

[R2-2303261](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303261.zip) Discussion on network verified UE location in NR NTN THALES discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303299](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303299.zip) Discussion on NTN NW verified UE location Lenovo discussion Rel-18

[R2-2303438](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303438.zip) Discussion on network verified UE location Xiaomi discussion

[R2-2303524](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303524.zip) Discussion on network verified UE location CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303666](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303666.zip) Network Verified UE Location in NTN Samsung R&D Institute UK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303955](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303955.zip) Discussion on Network Verified UE Location TCL Communication Ltd. discussion Rel-18 R2-2301837

[R2-2303962](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303962.zip) Discussion on the network verfied UE location Huawei, HiSilicon discussion Rel-17 NR\_NTN\_enh-Core

### 7.7.4 NTN-TN and NTN-NTN mobility and service continuity enhancements

#### 7.7.4.1 Cell reselection enhancements

##### 7.7.4.1.1 NTN-TN enhancements

[R2-2302539](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302539.zip) Discussion on NTN-TN cell reselection enhancement OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302562](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302562.zip) Discussion on Cell Reselection Enhancements in NTN-TN CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302680](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302680.zip) On TN-NTN Cell Selection Re-selection in NR NTN MediaTek Inc. discussion

[R2-2302699](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302699.zip) Discussion on TN-NTN cell reselection enhancements Intel Corporation discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302780](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302780.zip) Discussion on TN-NTN cell reselection enhancements CAICT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303037](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303037.zip) TN cell coverage info and measurement relaxation Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303086](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303086.zip) Cell selection/reselection enhancements in NTN-TN Sony discussion Rel-18 NR\_NTN\_enh

[R2-2303100](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303100.zip) Discussion on the NTN-TN cell reselection enhancements Huawei, HiSilicon, Turkcell discussion Rel-18 NR\_NTN\_enh

[R2-2303139](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303139.zip) Consideration on cell reselection enhancements for NTN-TN ZTE Corporation, Sanechips discussion Rel-18

[R2-2303168](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303168.zip) On TN Coverage Area Information - signaling, validity and definition aspects Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303254](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303254.zip) Neighbour cell measurement triggering for reselection in NTN moving cells Lenovo discussion Rel-18

[R2-2303300](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303300.zip) Signaling the TN Coverage Information with a 2-step Approach Google Inc. discussion Rel-18

[R2-2303318](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303318.zip) Details of the TN coverage data signalling NEC Telecom MODUS Ltd. discussion

[R2-2303325](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303325.zip) Discussion on Power saving for NTN-TN mobility vivo discussion

[R2-2303334](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303334.zip) Discussion on the assistance information for NTN-TN cell reselection ITRI discussion NR\_NTN\_enh-Core

[R2-2303415](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303415.zip) NTN-TN cell reselection enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303439](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303439.zip) Cell reselection enhancements for NTN-TN mobility Xiaomi discussion

R2-2303457 Discussion on Power saving for NTN-TN mobility vivo discussion Withdrawn

[R2-2303477](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303477.zip) Discussion on NR NTN-TN cell reselection enhancements Transsion Holdings discussion Rel-18

[R2-2303525](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303525.zip) NTN-TN cell reselection enhancements CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303724](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303724.zip) NTN-TN Mobility Cell Reselection and PCI Values SHARP Corporation discussion

[R2-2303728](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303728.zip) NTN-TN mobility and service continuity InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303736](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303736.zip) TN NTN mobility enhancements Ericsson discussion Rel-18 NR\_NTN\_enh

[R2-2303766](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303766.zip) Discussion on NTN-TN Cell Reselection Enhancements Samsung Research America discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303790](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303790.zip) Further discussion on NTN-TN cell reselection enhancements NTT DOCOMO, INC. discussion

[R2-2303975](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303975.zip) Discussion on NTN-TN cell reselection enhancements LG Electronics France discussion Rel-18 NR\_NTN\_enh-Core

[R2-2304014](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304014.zip) Discussion on NTN-TN Cell re-selection ITL discussion Rel-18

##### 7.7.4.1.2 NTN-NTN enhancements

Including outcome of:

[Post121][106][NR NTN Enh] NTN-NTN cell reselection (ZTE)

Other contributions in this AI might not be treated at RAN2#121bis

[R2-2302538](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302538.zip) Discussion on NTN-NTN cell reselection enhancement OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303140](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303140.zip) Report of [Post121][106][NR NTN enh] NTN-NTN cell reselection (ZTE) ZTE Corporation, Sanechips discussion Rel-18

[R2-2303169](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303169.zip) On NTN-NTN Reselections in EMC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303255](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303255.zip) Indication of TN area for neighbour cell measurement in NTN Lenovo discussion Rel-18

[R2-2303324](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303324.zip) Discussion on cell reselection enhancement for earth-moving cell vivo discussion

[R2-2303416](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303416.zip) NTN-NTN cell reselection enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303440](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303440.zip) Cell reselection enhancements for NTN-NTN mobility Xiaomi discussion

R2-2303456 Discussion on cell reselection enhancement for earth-moving cell vivo discussion Withdrawn

[R2-2303577](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303577.zip) Discussion on NTN-NTN mobility enhancements Spreadtrum Communications discussion Rel-18

[R2-2303729](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303729.zip) Cell reselection enhancements for Earth moving cell InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303767](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303767.zip) Discussion on NTN-NTN Cell Reselection Enhancements Samsung Research America discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303976](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303976.zip) Discussion on NTN-NTN cell reselection enhancements LG Electronics France discussion Rel-18 NR\_NTN\_enh-Core R2-2300799

#### 7.7.4.2 Handover enhancements

[R2-2302545](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302545.zip) Discussion on NTN handover enhancements OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302563](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302563.zip) Discussion on PCI Unchanged Scenario CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302564](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302564.zip) Discussion on NTN HO Enhancements CATT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302678](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302678.zip) Handover Enhancement in Earth Moving Cells MediaTek Inc. discussion

[R2-2302697](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302697.zip) Discussion on NTN 2-step handover Intel Corporation discussion Rel-18 NR\_NTN\_enh-Core

[R2-2302698](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302698.zip) Discussion on NTN RACH-less handover Intel Corporation discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303038](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303038.zip) RACH-less handover for NTN Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303039](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303039.zip) Further handover enhancement for NTN Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303076](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303076.zip) Consideration of HO common signaling gain in NTN China Telecom discussion Rel-18 NR\_NTN\_enh

[R2-2303087](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303087.zip) Signaling overhead reduction and group handover during NTN-NTN HOs Sony discussion Rel-18 NR\_NTN\_enh

[R2-2303099](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303099.zip) Discussion on NTN handover enhancements Huawei, HiSilicon, Turkcell discussion Rel-18 NR\_NTN\_enh

[R2-2303141](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303141.zip) Consideration on HO enhancements in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2303142](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303142.zip) Consideration on RACH-less HO in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2303160](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303160.zip) Discussion on NTN handover enhancements TCL Communication Ltd. discussion

[R2-2303170](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303170.zip) Even Further Aspects on Connected-mode Mobility in Rel-18 NTN Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303256](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303256.zip) Considerations on supporting RACH-less HO in NTN Lenovo discussion Rel-18

[R2-2303258](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303258.zip) Discussion on Handover enhancements for NTN Fujitsu Limited discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303327](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303327.zip) On handover enhancement for signalling overhead reduction in NR NTN vivo discussion

[R2-2303331](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303331.zip) Satellite switch\_PCI change without L3 handover NEC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303332](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303332.zip) Support RACH-less HO and CHO NEC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303417](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303417.zip) Signaling optimization on common HO configuration Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303418](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303418.zip) NTN specific handover enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303441](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303441.zip) Discussion on handover enhancements for NTN-NTN mobility Xiaomi discussion

R2-2303459 On handover enhancement for signalling overhead reduction in NR NTN vivo discussion Withdrawn

[R2-2303478](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303478.zip) Discussion on NR NTN-NTN handover enhancements Transsion Holdings discussion Rel-18

[R2-2303526](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303526.zip) Discussion on common (C)HO configuration, RACH-less HO and group HO for NTN CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303730](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303730.zip) NTN mobility enhancements for RRC\_CONNECTED InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303734](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303734.zip) Handover enhancements Ericsson discussion Rel-18 NR\_NTN\_enh

[R2-2303768](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303768.zip) Discussion on NTN handover enhancements Samsung Research America discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303802](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303802.zip) Further discussion on PCI unchanged CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303932](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303932.zip) Discussion on RACH-less handover for NTN ASUSTeK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303933](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303933.zip) Discussion on handover enhancement with common signalling ASUSTeK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2303977](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303977.zip) Discussion on handover enhancements LG Electronics France discussion Rel-18 NR\_NTN\_enh-Core

[R2-2304079](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304079.zip) Discussion on handover enhancements Sharp discussion Rel-18 NR\_NTN\_enh-Core

[R2-2304134](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304134.zip) NTN-NTN handover enhancements Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core R2-2301864

[R2-2304137](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304137.zip) HO/CHO Signaling Overhead Reduction by NTN-config omission Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core R2-2301866

[R2-2304147](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304147.zip) Considerations on unchanged PCI solution Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core

## 7.8 NR support for UAV

(NR\_UAV -Core; leading WG: RAN2; REL-18; WID: RP-223545)

Time budget: 1 TU

Tdoc Limitation: 4

### 7.8.1 Organizational

[R2-2302443](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302443.zip) LS on PC5 based Detect and Avoid mechanism (S2-2301854; contact: LGE) SA2 LS in Rel-18 FS\_UAS\_Ph2 To:RAN2

[R2-2302444](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302444.zip) LS on RAN dependency for UAS (S2-2303285; contact: LGE) SA2 LS in Rel-18 UAS\_Ph2 To:RAN2, RAN3

[R2-2302459](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302459.zip) Reply to LS to 3GPP on ECC request for standardisation support related to ECC Decision (22)07 on “harmonised framework on aerial UE usage in MFCN harmonised bands” (RP-230804; contact: Ericsson) RAN LS in Rel-18 NR\_UAV To:ETSI TC MSG/TFES Cc:SA, RAN2, RAN4, RAN5, SA2, CT1, GSMA, ERMTG AERO

[R2-2302464](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302464.zip) LS to 3GPP on ECC request for standardisation support related to ECC Decision (22)07 on “harmonised framework on aerial UE usage in MFCN harmonised bands” (TFES(23)074033r1\_LS\_to\_3GPP\_on\_aerial\_UE; contact: Ericsson) ETSI TC MSG/TFES LS in To:RAN, SA, RAN2, RAN4, SA2

[R2-2303171](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303171.zip) Uncrewed Aerial Vehicles in Rel-18 - Updated Workplan Nokia, Nokia Shanghai Bell Work Plan Rel-18 NR\_UAV-Core

[R2-2303172](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303172.zip) Stage-2 Text Proposal for Rel-18 UAVs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

### 7.8.2 Measurement reporting for mobility and interference control

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, Measurement reporting based on a configured number of cells (i.e. larger than one) fulfilling the triggering criteria simultaneously

Including [POST121][313][UAV] Height-dependent configuration (Qualcomm)

[R2-2302681](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302681.zip) Report of [POST121][313][UAV] Height-dependent configuration Qualcomm Incorporated (Moderator) report Rel-18 NR\_UAV-Core

[R2-2302865](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302865.zip) Interference control for combined event Intel Corporation discussion Rel-18 NR\_UAV-Core

[R2-2302866](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302866.zip) Height dependent RRM configuration to reduce measurement reporting Intel Corporation discussion Rel-18 NR\_UAV-Core

[R2-2303058](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303058.zip) Measurement and reporting enhancements Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2303068](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303068.zip) UAV measurement reports Ericsson discussion Rel-18 NR\_UAV-Core

[R2-2303095](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303095.zip) Discussion on Measurement Reports Enhancements NEC Europe Ltd discussion Rel-18 NR\_UAV-Core

[R2-2303147](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303147.zip) Discussion on measurement reporting for NR UAV Sharp discussion

[R2-2303173](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303173.zip) On Interference Reporting and Height-dependent Configuration Adjustments for UAVs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2303235](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303235.zip) Discussion on height dependent measurement for NR UAV Lenovo discussion Rel-18

[R2-2303402](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303402.zip) Measurement reporting enhancement in UAV Apple discussion Rel-18 NR\_UAV

[R2-2303430](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303430.zip) Measurement reporting enhancement in NR UAV ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2303431](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303431.zip) Height-dependent measurement configuration ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2303527](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303527.zip) Measurement Reporting for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2303805](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303805.zip) Further discussion on NR support for UAV NTT DOCOMO, INC. discussion

[R2-2303808](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303808.zip) Discussion on measurement report for UAV Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2303846](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303846.zip) Remaining issues on measurement reporting enhancements in NR UAV Samsung Electronics Austria discussion Rel-18 NR\_UAV-Core

[R2-2303850](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303850.zip) Discussion on measurement reporting for NR UAV Xiaomi discussion Rel-18 NR\_UAV-Core

[R2-2303951](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303951.zip) Discussion on measurement reporting enhancement for NR UAV vivo discussion Rel-18 NR\_UAV-Core

[R2-2304176](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304176.zip) Measurement Report Enhancement LG Electronics discussion Rel-18

### 7.8.3 Flight path reporting

*Contributions on enhancements to flight path reporting*

Including [POST121][314][UAV] Flight path reporting (Intel)

[R2-2302726](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302726.zip) Consideration on flight path reporting for NR UAV DENSO CORPORATION discussion NR\_UAV-Core

[R2-2302864](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302864.zip) Flight path update triggering for UAV Intel Corporation discussion Rel-18 NR\_UAV-Core

[R2-2302867](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302867.zip) Report from [Post121][314][UAV] Flight path reporting Intel Corporation discussion Rel-18 NR\_UAV-Core

[R2-2302901](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302901.zip) On Flight Path Plan (FPP) Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2302905](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302905.zip) UAV Flight Path Reporting Ericsson España S.A. discussion Rel-18

[R2-2303059](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303059.zip) Flight path reporting enhancements Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2303105](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303105.zip) Discussion on Flight Path Reporting NEC Europe Ltd discussion Rel-18 NR\_UAV-Core R2-2300853

[R2-2303148](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303148.zip) Discussion on flight path reporting for NR UAV Sharp discussion

[R2-2303260](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303260.zip) Remaining issues of flight path reporting for NR UAV Lenovo discussion Rel-18

[R2-2303401](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303401.zip) Flight path reporting in UAV Apple discussion Rel-18 NR\_UAV

[R2-2303432](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303432.zip) On flight path reporting ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2303731](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303731.zip) Flight path notification and reporting for UAV InterDigital discussion Rel-18 NR\_UAV-Core

[R2-2303781](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303781.zip) Further consideration on flight path reporting for NR UAV China Telecom discussion

[R2-2303791](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303791.zip) Discussion on opening issues for Flight path Reporting CMCC discussion Rel-18 NR\_UAV-Core

[R2-2303809](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303809.zip) Further discussion on flight path reporting Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2303851](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303851.zip) Discussion on flight path reporting for NR UAV Xiaomi discussion Rel-18 NR\_UAV-Core

[R2-2303888](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303888.zip) Discussion on flight path reporting Samsung discussion Rel-18 NR\_UAV-Core

[R2-2303902](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303902.zip) Leftover Issue on Flight Path Reporting CATT discussion Rel-18 NR\_UAV-Core

[R2-2303952](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303952.zip) Discussion on flight path reporting vivo discussion Rel-18 NR\_UAV-Core

[R2-2303992](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303992.zip) [DRAFT] LS on flightpath information forwarding for UAV Intel Corporation LS out NR\_UAV-Core To:RAN3

[R2-2304177](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304177.zip) Flight Path Information Report LG Electronics discussion Rel-18

### 7.8.4 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.

[R2-2302682](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302682.zip) Subscription-based Aerial-UE Identification in NR Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2302906](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302906.zip) Subscription-Based Aerial UEs Identification Ericsson España S.A discussion Rel-18 NR\_UAV-Core R2-2212898

[R2-2303528](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303528.zip) Subscription-based aerial-UE identification for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2303811](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303811.zip) Consideration on subscription-based UAV identification Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2303844](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303844.zip) Discussion on subscription-based aerial-UE identification for NR UAV Samsung Electronics Austria discussion Rel-18 NR\_UAV-Core

[R2-2303953](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303953.zip) Discussion on subscription-based aerial-UE identification vivo discussion Rel-18 NR\_UAV-Core

### 7.8.5 UAV identification broadcast

UAV identification broadcast using PC5-U will be treated with higher priority. Contributions analysing the gap for supporting DAA using the same framework as BRID can be submitted.

[R2-2302907](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302907.zip) On Broadcasting UAV Identification Ericsson España S.A. discussion Rel-18

[R2-2303060](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303060.zip) RAN2 aspects of PC5-based BRID and DAA support Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core, LTE\_UAV\_enh-Core

[R2-2303174](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303174.zip) RAN2 Aspects of BRID and DAA for UAVs in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2303236](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303236.zip) Discussion on broadcasting remote id for UAV Lenovo discussion Rel-18

[R2-2303403](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303403.zip) Network enabling indication on UAV over PC5 Apple discussion Rel-18 NR\_UAV

[R2-2303529](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303529.zip) Further discussion on UAV identification broadcast CMCC discussion Rel-18 NR\_UAV-Core

[R2-2303784](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303784.zip) UAV Analysis of BRID and DAA Broadcast over PC5 Beijing Xiaomi Mobile Software discussion Rel-18 NR\_UAV-Core

[R2-2303810](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303810.zip) Further discussion on UAV remote identification broadcast Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2303903](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303903.zip) Re Discussion on the LS from SA2 for NR UAV CATT discussion Rel-18 NR\_UAV-Core

[R2-2303904](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303904.zip) The Gap for Supporting DAA as BRID CATT discussion Rel-18 NR\_UAV-Core

[R2-2303954](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303954.zip) Discussion on UAV identification broadcast vivo discussion Rel-18 NR\_UAV-Core

[R2-2303988](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303988.zip) Discussion on UAV identification and DAA broadcast Samsung discussion Rel-18 NR\_UAV-Core

[R2-2304157](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304157.zip) On UAV identification broadcast ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

## 7.9 Enhanced NR Sidelink Relay

(NR\_SL\_relay\_enh-Core; leading WG: RAN2; REL-18; WID: RP-223501)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

[R2-2302648](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302648.zip) Discussion on emergency service for SL Relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core, TEI18

Moved from 7.24

[R2-2303746](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2303746.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2303746.zip) U2N Relay UE operation Threshold Conditions: Impact of UE Mobility Philips International B.V., FirstNet, ASUSTek, NEC, MediaTek, Lenovo discussion Rel-18 NR\_SL\_relay\_enh R2-2212276

Moved from 7.24

### 7.9.1 Organizational

Including incoming LSs and rapporteur inputs.

[R2-2302442](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302442.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

[R2-2302445](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302445.zip) Reply LS on Differentiation of Layer2 ID and Coexistence of U2N/U2U (S2-2303381; contact: CATT) SA2 LS in Rel-18 5G\_ProSe\_Ph2 To:RAN2

[R2-2302994](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302994.zip) Contents for rel-18 38.300 CR draft LG Electronics Inc. discussion Rel-18 38.300

### 7.9.2 UE-to-UE relay

Single-hop Layer-2 and Layer-3 UE-to-UE relay for unicast. Including common L2/L3 functionality comprising relay discovery and (re)selection and L2-specific functionality including adaptation layer design, control plane procedures, and QoS handling if needed.

[R2-2302492](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302492.zip) Identification for bearer mapping and Connection establishment NEC discussion NR\_SL\_relay\_enh-Core

[R2-2302601](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302601.zip) Discussion on U2U Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302643](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302643.zip) Discussion on U2U relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302701](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302701.zip) Discussion on L2 UE-to-UE relaying aspects Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2302791](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302791.zip) Considerations on U2U relay (re)selection and Local ID assignment Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay\_enh-Core R2-2301355

[R2-2302836](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302836.zip) Control Plane Procedures for Layer-2 UE-to-UE Relays Ericsson España S.A. discussion Rel-18

[R2-2302902](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302902.zip) Discussion on Relay (Re-)selection and Discovery Ericsson España S.A. discussion Rel-18

[R2-2302921](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302921.zip) Discovery and Relay Selection for UE-to-UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302922](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302922.zip) QoS and Adaptation Layer for UE-to-UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302997](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302997.zip) Control plane procedure and adaptaion layer for U2U relay LG Electronics Inc. discussion Rel-18

[R2-2303004](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303004.zip) Discussion on U2U Relay discovery and (re)selection ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303005](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303005.zip) Discussion on U2U relay L2-specific functionality ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303012](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303012.zip) Multiplexing and UE ID in the adaptation layer Fujitsu discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303088](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303088.zip) UE-to-UE relay (re)selection Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2303222](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303222.zip) Discussion on L2 U2U relay Lenovo discussion Rel-18

[R2-2303336](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303336.zip) SRAP design for U2U Sidelink Relay Samsung R&D Institute UK discussion

[R2-2303339](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303339.zip) Discussion on the common L2 L3 parts for U2U relaying vivo discussion

[R2-2303340](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303340.zip) Discussion on the L2 specific parts for U2U relaying vivo discussion

[R2-2303388](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303388.zip) Discussion on open issues on UE-to-UE Relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303486](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303486.zip) Discussion on UE-to-UE relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303506](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303506.zip) Layer-2 specific part on U2U Relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2303545](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303545.zip) Discussion on U2U relay CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2303572](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303572.zip) Discussion on UE-to-UE relay Spreadtrum Communications discussion Rel-18

[R2-2303608](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303608.zip) Discussion on U2U relay China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303648](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303648.zip) Considerations for U2U L2 relay operations Kyocera discussion

[R2-2303782](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303782.zip) U2U relay – Relay UE discovery / (re)selection, SRAP, QoS Handling Beijing Xiaomi Mobile Software discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303934](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303934.zip) Discussion on aspects of AS layer configuration for L2 U2U Relay ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303935](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303935.zip) Discussion on E2E security for supporting L2 UE-to-UE relay ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core R2-2301538

[R2-2303989](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303989.zip) Integrated U2U relay discovery Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303990](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303990.zip) QoS and Bearer configuration for U2U relaying Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core R2-2301171

[R2-2303991](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303991.zip) Discovery and relay reselection open aspects Intel Corporation discussion NR\_SL\_relay-Core

[R2-2304074](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304074.zip) UE-to-UE relay (re)selection Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2304123](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304123.zip) Discussion on L2 U2U Relay MediaTek Inc. discussion Rel-18

### 7.9.3 Service continuity enhancements for L2 UE-to-network relay

Inter-gNB direct/indirect path switching; intra-gNB indirect/indirect path switching; and inter-gNB indirect/indirect path switching, to be supported by reuse of solutions for the other scenarios.

[R2-2302493](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302493.zip) Support of Lossless Path Switching NEC discussion NR\_SL\_relay\_enh-Core

[R2-2302602](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302602.zip) Considerations on Service Continuity Enhancements for L2 U2N Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302859](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302859.zip) Discussion on lossless data delivery during inter-gNB path switching Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh

[R2-2302860](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302860.zip) Discussion on service continuity issues for Inter-gNB path switching of L2 U2N relay Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh

[R2-2302869](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302869.zip) Discussion on lossless path switching and measurement events Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2302903](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302903.zip) Discussion on Inter-gNB Service Continuity Ericsson España S.A. discussion Rel-18

[R2-2302923](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302923.zip) Lossless path switching from indirect to indirect/direct InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302971](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302971.zip) Discussion on Service Continuity Enhancements NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302995](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302995.zip) Path switching procedure for the service continuity enhancement LG Electronics Inc. discussion Rel-18

[R2-2303006](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303006.zip) Further discussion on service continuity for SL relay ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303089](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303089.zip) Service continuity enhancements for UE sidelink relay Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2303110](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303110.zip) Discussion on lossless data forwarding for inter-gNB service continuity OPPO, Xiaomi, Qualcomm Incorporated, Ericsson, Lenovo discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303117](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303117.zip) Discussion on service continuity enhancement Xiaomi discussion

[R2-2303223](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303223.zip) Service continuity for Inter-gNB path switching Lenovo discussion Rel-18

[R2-2303341](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303341.zip) Remaining issues on service continuity enhancement for L2 U2N relay vivo discussion

[R2-2303389](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303389.zip) Discussion on Service continuity enhancement of L2 U2N relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303507](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303507.zip) Scenarios and solution on lossless delivery during path switch from indirect path to target path Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2303546](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303546.zip) Discussion on service continuity CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2303558](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303558.zip) Discussion on Service Continuity Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303564](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303564.zip) Service continuity enhancements support for L2 U2N relay Spreadtrum Communications discussion Rel-18

[R2-2303609](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303609.zip) CP and UP aspects of inter-gNB path switching China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2304075](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304075.zip) remaining issues for U2N path switching with lossless delivery Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2304124](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304124.zip) Lossless data delivery in the inter-gNB cases MediaTek Inc. discussion Rel-18

### 7.9.4 Multi-path relaying

Mechanisms to support multi-path scenarios where a UE is connected to the same gNB using one direct path and one indirect path via 1) Layer-2 UE-to-Network relay, or 2) via another UE (where the UE-UE inter-connection is assumed to be ideal). This agenda item will include a rapporteur contribution summarising open issues from RAN2#121 (invited contribution not counted against the tdoc limit).

[R2-2302569](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302569.zip) Discussion on multi-path SL relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302603](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302603.zip) Discussion on Multi-path Scenario 1 CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302604](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302604.zip) Discussion on Multi-path Scenario 2 CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302702](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302702.zip) Open aspects of multi-path relaying Intel Corporation discussion Rel-18 NR\_SL\_relay-Core

[R2-2302904](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302904.zip) Discussion on Multipath Relays Ericsson España S.A. discussion Rel-18

[R2-2302924](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302924.zip) Design Aspects for Multi-path InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2302973](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302973.zip) Discussion on Multi-path Relaying NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303007](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303007.zip) Further discussion on the support of multi-path relaying ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303013](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303013.zip) Discussions on multi-path Fujitsu discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303090](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303090.zip) Multi-path relaying discussion Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2303116](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303116.zip) Discussion on multi-path Xiaomi discussion

[R2-2303208](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303208.zip) Remaining issues on multipath SL relay Nokia, Nokia Shanghai Bell discussion

[R2-2303224](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303224.zip) Multi-path establishment and operation Lenovo discussion Rel-18

[R2-2303342](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303342.zip) Remaining Issues for Multi-path Scenario 1&2 vivo discussion Late

[R2-2303390](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303390.zip) Discussion on control plan design for Multi-path Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303391](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303391.zip) Discussion on remaining issues on Scenario 2 for Multi-path Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303487](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303487.zip) Discussion on multi-path operation Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303508](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303508.zip) Open issues on multi-path relay for Scenario 1 and Scenario 2 Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2303547](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303547.zip) Discussion on multi-path scenario 1 CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2303548](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303548.zip) Considerations on multi-path scenario 2 CMCC discussion Rel-18 NR\_SL\_relay\_enh

[R2-2303565](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303565.zip) Discussion on multi-path relaying Spreadtrum Communications discussion Rel-18

[R2-2303610](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303610.zip) Discussion on remaining issues of multi-path relaying China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303647](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303647.zip) Considerations for multipath relay operations for Scenario 1 Kyocera discussion

[R2-2303655](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303655.zip) Discussion on Multi-path relaying Lenovo discussion NR\_SL\_relay\_enh-Core

[R2-2303659](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303659.zip) Discussion on Sidelink Relay multi-path control plane procedure for Scenario 1 Philips International B.V. discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303738](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303738.zip) Discussion on Throughput Enhancements in Sidelink Multiplath Relaying Fraunhofer IIS, Fraunhofer HHI discussion Rel-18

[R2-2303857](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303857.zip) Resubmitted proposals from [Pre121][407] Summary of AI 8.9.4 LG Electronics France discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303859](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303859.zip) Multi-path relaying for NR sidelink relay enhancements LG Electronics France discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303868](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303868.zip) Discussion sidelink relay enhancement for scenario 1&2 Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303936](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303936.zip) Resource allocation and BSR reporting for multi-path ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2304076](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304076.zip) C-plane aspects of multi-path Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2304077](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304077.zip) remaining issue for supporting senario2 Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2304122](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304122.zip) Discussion on Multipath MediaTek Inc. discussion Rel-18

### 7.9.5 DRX

Study the gains and, if needed, specify signalling between gNB and relay UE in sidelink mode 2 to assist the determination of the sidelink DRX configuration used for remote UE. This agenda item will be handled at lower priority.

[R2-2302644](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302644.zip) Discussion on DRX for L2 U2N relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303118](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303118.zip) Discussion on SL DRX in U2N relay Xiaomi discussion

[R2-2303488](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303488.zip) Discussion on sidelink DRX for L2 U2N relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2303509](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303509.zip) SL DRX for L2 U2N relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

## 7.10 IDC enhancements for NR and MR-DC

(NR\_IDC\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221281)

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

Endorsement of running CRs is treated (incl related technical discussion), i.e. the outcome of email discussion [Post121][651][IDC] TS 38.300 CR on IDC (Huawei), [Post121][652][IDC] TS 37.340 CR on IDC (ZTE), [Post121][653][IDC] TS 38.331 CRs on IDC (xiaomi), [Post121][654][IDC] Capability CRs on IDC (Intel)

Otherwise this topic is not treated at RAN2 121bis-e.

[R2-2302978](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302978.zip) [Post121][654][IDC] Capability CRs on IDC (Intel) Intel Corporation discussion Rel-18 NR\_IDC\_enh-Core

[R2-2302979](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302979.zip) 38.306 running CR for Rel-18 IDC UE capabilities Intel Corporation draftCR Rel-18 38.306 17.4.0 B NR\_IDC\_enh-Core

[R2-2302980](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302980.zip) 38.331 running CR for Rel-18 IDC UE capabilities Intel Corporation draftCR Rel-18 38.331 17.4.0 B NR\_IDC\_enh-Core

[R2-2303353](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303353.zip) 38.331 running CR for introduction of IDC Xiaomi draftCR Rel-18 38.331 17.4.0 NR\_IDC\_enh-Core

[R2-2303884](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303884.zip) 37.340 Running CR for Introduction of IDC ZTE Corporation, Sanechips draftCR Rel-18 37.340 17.4.0 B NR\_IDC\_enh-Core

[R2-2304107](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304107.zip) 38.300 running CR for IDC Enhancements Huawei, HiSilicon draftCR Rel-18 38.300 17.4.0 B NR\_IDC\_enh-Core

## 7.11 Enhancements of NR Multicast and Broadcast Services

(NR\_MBS\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221458)

Time budget: 0.75 TU

Tdoc Limitation: 3 tdocs

### 7.11.1 Organizational

LS in, rapporteur input, running CRs etc.

[R2-2302426](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302426.zip) Reply LS on FS\_5MBS\_Ph2 progress (R3-231030; contact: Huawei) RAN3 LS in Rel-18 FS\_5MBS\_Ph2, NR\_MBS\_enh-Core To:SA2 Cc:RAN1, RAN2, CT4

[R2-2303795](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303795.zip) 38.300 Running CR for MBS enhancements CMCC draftCR Rel-18 38.300 17.4.0 B NR\_MBS\_enh-Core

[R2-2303971](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303971.zip) RRC running CR for eMBS Huawei, HiSilicon draftCR Rel-18 38.331 17.4.0 B NR\_MBS\_enh-Core

*Moved from 7.11.2*

### 7.11.2 Multicast reception in RRC\_INACTIVE

Objective: Specify support of multicast reception by UEs in RRC\_INACTIVE state [RAN2, RAN3], PTM configuration for UEs receiving multicast in RRC\_INACTIVE state [RAN2]. Study the impact of mobility and state transition for UEs receiving multicast in RRC\_INACTIVE. (Seamless/lossless mobility is not required) [RAN2, RAN3].

Papers should not be submitted to 7.11.2, please use 7.11.2.1 or 7.11.2.2 instead.

#### 7.11.2.1 Control plane

Further details of PTM configuration, service continuity, notifications and RRC state transitions handling including:

- FFS whether the network can provide PTM configuration for intra-gNB cells

- PTM configuration structure (message, parameters etc.)

- service continuity during mobility

- notifications/group paging enhancements due to session activation/deactivation or due to Inactive mutlicast reception on/off

- MCCH change notification vs. (group) Paging for different cases

Including report of [Post121][606][eMBS] Service continuity and notifications (ZTE)

**NOTE: Aspects covered by [Post121][606][eMBS] should not be discussed in company papers**

[R2-2302524](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302524.zip) Discussions on PTM Configuration and Mobility CATT, CBN discussion NR\_MBS\_enh-Core

[R2-2302525](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302525.zip) Notifications for multicast reception in RRC\_INACTIVE CATT, CBN discussion NR\_MBS\_enh-Core

[R2-2302579](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302579.zip) Multicast MCCH design for multicast in RRC INACTIVE MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2302608](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302608.zip) Control plane for multicast reception in RRC\_INACTIVE state TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2302669](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302669.zip) Further Discussion on eMBS from CP vivo discussion Rel-18 NR\_MBS\_enh-Core

[R2-2302769](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302769.zip) Discussion on control plane for Multicast reception in RRC\_INACTIVE NEC Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2302962](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302962.zip) CP aspects for Multicast reception in RRC\_INACTIVE Samsung R&D Institute India discussion Rel-18

[R2-2303049](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303049.zip) Service continuity, RRC state transitions and notifications Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303129](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303129.zip) Control plane aspects of multicast reception in RRC\_INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

R2-2303159 Discussion for UEs receiving Multicast in RRC\_INACTIVE state TCL Communication Ltd. discussion

[R2-2303228](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303228.zip) Discussion on CP aspects for multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2303271](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303271.zip) Further consideration of PTM configuration and mobility aspects on multicast reception in RRC INACTIVE Kyocera discussion Rel-18

[R2-2303272](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303272.zip) Notification and RRC state transition aspects on multicast reception in RRC INACTIVE Kyocera discussion Rel-18 R2-2301587

[R2-2303307](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303307.zip) PTM configuration for multicast reception in RRC\_INACTIVE LG Electronics Inc. discussion Rel-18

[R2-2303308](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303308.zip) Multicast activationdeactivation notification and RRC state transitions LG Electronics Inc. discussion Rel-18

[R2-2303419](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303419.zip) PTM configuration for multicast reception in RRC\_INACTIVE Apple discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303553](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303553.zip) Summary of [Post121][606][eMBS] Service continuity and notifications (ZTE) ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh

[R2-2303554](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303554.zip) Misc CP issues on multicast reception in RRC\_INACTIVE ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh

[R2-2303585](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303585.zip) Discussion on service continuity and RRC state transitions Spreadtrum Communications discussion Rel-18

[R2-2303620](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303620.zip) Multicast reception in RRC\_INACTIVE Ericsson discussion Rel-18 NR\_MBS\_enh-Core Late

[R2-2303621](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303621.zip) MBS multicast with eDRX and MICO mode Ericsson discussion Rel-18 NR\_MBS\_enh-Core Late

[R2-2303630](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303630.zip) Ensuring desired level of reliability for an MBS session in RRC\_INACTIVE Interdigital Inc. discussion Rel-18 NR\_MBS\_enh-Core

*Moved from 7.11.2*

[R2-2303776](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303776.zip) RRC Resume for Multicast in RRC\_INACTIVE Sharp discussion

[R2-2303796](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303796.zip) Discussion on PTM configuration related open issues CMCC discussion Rel-18 NR\_MBS\_enh-Core Late

[R2-2303797](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303797.zip) Discussion on RRC\_INACTIVE UE join procedure CMCC discussion Rel-18 NR\_MBS\_enh-Core Late

[R2-2303943](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303943.zip) Consideration on the notifications for multicast reception in RRC\_INACTIVE Beijing Xiaomi Software Tech discussion Rel-18

[R2-2303968](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303968.zip) Multicast reception for RRC INACTIVE UE Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2304021](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304021.zip) Control plane aspects for multicast reception in RRC\_INACTIVE Intel Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2304121](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304121.zip) Discussion on PTM configuration Shanghai Jiao Tong University discussion

#### 7.11.2.2 User plane

Including aspects such as CFR configuration, MAC operation, identification of PHY layer impacts etc.

Including report of [Post121][607][eMBS] UP issues for Multicast in RRC Inactive (Apple)

**NOTE: Aspects covered by [Post121][607][eMBS] should not be discussed in company papers**

[R2-2302494](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302494.zip) HARQ operation during RRC state transitions for multicast reception NEC discussion NR\_MBS\_enh-Core

[R2-2302609](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302609.zip) User plane for multicast reception in RRC\_INCTIVE state TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2302670](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302670.zip) Further Discussion on eMBS from UP vivo discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303050](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303050.zip) Further views on multicast CFR configuration aspects Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303130](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303130.zip) User plane aspects of multicast reception in RRC\_INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303153](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303153.zip) Discussion on UP issues for Multicast in RRC Inactive LG Electronics Inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303201](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303201.zip) Discussion on UP issues for multicast in RRC INACTIVE MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303229](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303229.zip) Discussion on UP aspects for multicast reception in RRC\_INACTIVE Lenovo discussion Rel-18

[R2-2303420](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303420.zip) Summary of [Post121][607][eMBS] UP issues for Multicast in RRC Inactive (Apple) Apple discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303555](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303555.zip) BWP and CFR for multicast reception in RRC\_INACTIVE ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh

[R2-2303959](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303959.zip) Consideration on the support of PDCP count continuity Beijing Xiaomi Software Tech discussion Rel-18

[R2-2303969](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303969.zip) Remaining UP issues for multicast reception in RRC\_INACTIVE Huawei, CBN, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2304022](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304022.zip) User plane aspects for multicast reception in RRC\_INACTIVE Intel Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2304151](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304151.zip) User Plane Aspects for Multicast in INACTIVE Samsung discussion Rel-18 NR\_MBS\_enh-Core

### 7.11.3 Shared processing for MBS broadcast and Unicast reception

Objective: Specify Uu signalling enhancements to allow a UE to use shared processing for MBS broadcast and unicast reception, i.e., ‎including UE capability and related assistance information reporting regarding simultaneous unicast reception in RRC\_CONNECTED and MBS broadcast reception from the same or different operators [RAN2]

Including aspects such as:

- Granularity of capability signalling for MBS broadcast reception from non-serving cell

- What additional information and exact parameters should be reported

- Scenarios for UE to report additional info in MII and whether/how network can control when UE should report it

[R2-2302526](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302526.zip) Remaining issues on Shared Processing CATT, CBN discussion NR\_MBS\_enh-Core

[R2-2302610](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302610.zip) Simultaneous unicast reception and broadcast reception TD Tech, Chengdu TD Tech discussion Rel-18

[R2-2302671](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302671.zip) Further Discussion on Shared Processing in eMBS vivo discussion Rel-18 NR\_MBS\_enh-Core

[R2-2302770](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302770.zip) Discussion on shared process for MBS broadcast and unicast NEC Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2302961](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302961.zip) Shared processing for MBS broadcast and unicast reception Samsung R&D Institute India discussion Rel-18

[R2-2303051](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303051.zip) Shared processing for MBS broadcast and Unicast reception Qualcomm Incorporated discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303202](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303202.zip) Discuss on Shared processing for broadcast and unicast reception MediaTek inc. discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303273](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303273.zip) Shared processing for inter-PLMN MBS broadcast reception Kyocera discussion Rel-18 R2-2301588

[R2-2303354](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303354.zip) Remaining issues for shared processing of MBS Xiaomi discussion Rel-18 NR\_MBS\_enh-Core R2-2301702

[R2-2303421](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303421.zip) Shared processing of MBS broadcast and unicast reception Apple discussion Rel-18 NR\_MBS\_enh-Core

[R2-2303556](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303556.zip) Shared processing for MBS broadcast and Unicast reception ZTE, Sanechips discussion Rel-18 NR\_MBS\_enh

[R2-2303622](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303622.zip) Shared processing for MBS broadcast and Unicast reception Ericsson discussion Rel-18 NR\_MBS\_enh-Core R2-2301207 Late

[R2-2303970](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303970.zip) Discussion on shared processing for MBS broadcast and Unicast reception Huawei, HiSilicon discussion Rel-18 NR\_MBS\_enh-Core

[R2-2304023](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304023.zip) Shared processing for simultaneous MBS broadcast and Unicast reception Intel Corporation discussion Rel-18 NR\_MBS\_enh-Core

[R2-2304060](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304060.zip) Bandwidth signalling and scenarios for shared processing Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MBS\_enh-Core R2-2301753

[R2-2304149](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304149.zip) Discussion on Shared processing for MBS broadcast and unicast reception CMCC discussion Rel-18 NR\_MBS\_enh-Core

## 7.12 Mobile IAB (Integrated Access and Backhaul) for NR

( NR\_mobile\_IAB -Core; leading WG: RAN3; REL-18; WID: RP-221815)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

### 7.12.1 Organizational

Ls in Rapporteur input etc

[R2-2302424](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302424.zip) Reply LS on FS\_VMR solutions review (R3-231011; contact: Qualcomm) RAN3 LS in Rel-18 NR\_mobile\_IAB To:SA2 Cc:RAN2, RAN4, RAN

* Noted

[R2-2302890](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302890.zip) Workplan for Rel-18 mobile IAB Qualcomm Inc. (Rapporteur) Work Plan Rel-18 NR\_mobile\_IAB

* noted

### 7.12.2 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]

[R2-2302712](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302712.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302712.zip) Enhancements for mobility of IAB-node together with Ues CATT discussion Rel-18 NR\_mobile\_IAB

[R2-2303265](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303265.zip) Mobile IAB remaining issues vivo discussion Rel-18

[R2-2304002](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304002.zip) Discussion on the cell reselection and cell type indication aspects Samsung R&D Institute UK discussion

[R2-2304003](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304003.zip) Discussion on mIAB Connected mode mobility enhancement aspects Samsung R&D Institute UK discussion

#### 7.12.2.1 Connected mode

RAN2 has assumed that Conditional HO, and RACH-less HO are applicable. Discussion of RACH-less and its applicability of other Rel-18 WIs. Other aspects of Connected mode mobility enhancements.

General

[R2-2302784](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302784.zip) mobile IAB mobility enhancement for connected UEs Intel Corporation discussion Rel-18 NR\_mobile\_IAB-Core

- Chair: Focus on the proposals about

* Noted

[R2-2304098](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304098.zip) Issues on supporting RACH-less for mobile IAB Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

- QC think that these mIAB DUs are just logical DUs. They are at the same location, TA is the same and beam is the same. AT&T agrees and think R1 already has looked at this, think the beam is the same. ZTE agrees with QC and AT&T, think can check with R1. Ericsson think these two beams may not use the same configuration. AT&T think we already looked at this and it was agreed that the DUs can coordinate. HW think R3 is discussing cloning of config.

- LGE think we should not make this complex, think at least we should only consider same-TA case. Think we should ask R1 about beam whether there is existing mechanism

- ZTE think that for the grant, NTN is discussing this and we can reuse.

* RACH-less for mIAB scenario, if agreed in the end, will cover only the case of same-TA.

Offline, to see if the beam aspect can be progressed (Intel)

* [AT121bis-e][015][eIAB] Beam handling RACH-less HO (Intel)

Scope: Continue the discussion based on R2-2304098 (and R2-2302784). Address the potential issue of beam handling in target cell at RACH less handover, determine to what extent a solution could be feasible it in the scope of eIAB Rel-18 WI. Can also document the resolutions to the other issues listed in R2-2304098 if they were found working. Pave the way for online Come-Back.

Intended outcome: Report

Deadline: Online CB Monday April 24

R2-2304471 Summary of [AT121bis-e][015][eIAB] Beam handling RACH-less HO Intel Corporation

DISCUSSION

P1P2

- intel reports that there were late comments as well.

- QC think that O1 and O2 includes everything. Think that we can have a generic solution where there is an indicator in the HO command that is optional.

- LGE has concerns on the amount of work, e.g. for beam indication, different beam is used for different physical channels. Apple think this is similar as beam information for current handover.

- Apple support P1 and P2.

- Ericsson think P2 is ok. P1 should be considered assumptions, need to check with R1 for feasibility.

- ZTE think O2 means same configuration, beam status is not clear. Think P2 doesn’t make sense if we don’t agree RACH-less first.

* Feasibility of beam handling during RACH-less HO in the mIAB WI is FFS (and this need to be addressed for RACH-less to be supported for mIAB).
* RAN2 discuss further the following options to support beam operation for the first UL transmission/DL reception towards the target logical DU in RACH-less HO during DU migration:

Option 1: (Explicit approach) Explicit beam information is included in HO command. FFS the details.

Option 2: (Implicit approach) UE re-uses the same beam status as in the source cell (the beam information is not carried explicitly in HO command).

* RACH-less HO with same TA with security key change is in scope for served UEs during mIAB DU migration. FFS UL grant and HO completion procedure in mIAB RACH-less HO.

[R2-2303047](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303047.zip) Considerations on adopting LTM to mobile IAB use case KDDI Corporation discussion

- Chair think LTM may not be applicable as it was decided to limit this to intra-CU. Ericsson think we should not consider LTM for this case in this release. A number of companies agrees with E.

* noted

[R2-2303945](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303945.zip) Enhancements for IAB-node mobility and onboard UEs AT&T discussion

- Chair think that for Idle inactive UEs, cell barring can prevent access to source cell during the procedure. AT&T think there is a risk that cell barring will bar the UE for a too long time from the freq and the UE will not find his way back to the new mIAB cell. LGE think this may not be an issue. Chair think we can discuss this next meeting, and e.g. by first collecting comments offline)

* noted, Barring or similar issue postponed

[R2-2303852](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303852.zip) On the need for connected mode mobility enhancements for mIAB LG Electronics France discussion NR\_mobile\_IAB-Core

P4

- AT&T think this is aligned with the AT&T problem scenario.

- CATT think the enhancement cmp to legacy HO is small. .

- AT&T think that also the timing is important, and CHO has less dependency to real time restrictions.

- Ericsson think that once CHO can be configured then also legacy HO can be done.

- Chair: there is some support and some opposition.

- Apple wonder if the UE need to support GNSS. LG think T1 is based on absolute time.

* FFS: May support CHO with CondT1 if it is “for free”, i.e. if TS impact is just to slightly modify the description to make it also applicable to TN.

CB: Chair: Can briefly CB to this W2 Monday

[R2-2302891](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302891.zip) Support of mobile-IAB indicator in Msg 5 Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

- Motivation: Based on normative text in Ts 23.501 vs. 18.0, section 5.35A.1.

* The mobile IAB-MT to include a mobile-IAB indication in Msg. 5.

[R2-2302929](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302929.zip) Mobile IAB connected mode issues and enhancements Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

DISCUSSION

- HW wonder if P3 is an optimization. Nokia think that this is just a clarification that the UE just follows the measurement configuration. Apple think this doesn’t need to be specified.

- Nokia think for P3, there may be TS impact e.g. for R3 .. P4 is a clarification without TS impact.

* R2 assumes that a mobile IAB node is not required to receive the system information of neighbour cells for reporting of measurements (i.e. it will not refrain from reporting measurements of cells that are not broadcasting the “mobile iab Support” indication, and this is acc to current R2 TS).
* R2 clarifies that A donor broadcasting the “supporting mobile-IAB” indication first checks the UE capability of an IAB node before configuring child nodes for the IAB node or sending a handover request for the node, no impact to RAN2 TS.

[R2-2303000](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303000.zip) Discussion on mobility enhancement for UE in connected mode ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303112](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303112.zip) Discussion on mobility enhancements for mobile IAB NEC Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303242](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303242.zip) Mobility enhancements for mobile IAB-node and its connected UE Lenovo discussion Rel-18

[R2-2303275](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303275.zip) Connected mode mobility enhancements for mobile IAB Kyocera discussion Rel-18 R2-2301589

[R2-2303503](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303503.zip) Connected mode UE mobility enhancement for mobile IAB Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303789](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303789.zip) Connected mode mobility enhancements for mobile IAB InterDigital Inc. discussion Rel-18 NR\_mobile\_IAB-Core

#### 7.12.2.2 Idle/Inactive mode

Misc low-complexity enhancements, if any. Continue the discussion on SIB indication to UEs for enhancements of cell reselection, primarily inter-frequency cell reselection. Need to agree on UE behaviour before determining whether to have the SIB indication (potentially lower priority for current meeting).

[R2-2303504](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2303504.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2303504.zip) Idle/Inactive mode UE mobility enhancement for mobile IAB Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2302930](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302930.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302930.zip) Autonomous search for mobile IAB cells Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2302785](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302785.zip) UE cell (re)selection towards mobile IAB cell Intel Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2304100](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304100.zip) Consideration of CAG feature for mobile IAB Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2302883](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302883.zip) UE prioritization in cell reselection for mobile-IAB cells SHARP Corporation discussion Rel-18

[R2-2303001](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303001.zip) Discussion on mobility enhancement for UE in idle or inactive mode ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303091](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303091.zip) Mobile IAB cell indication to UE behaviour Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2303274](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303274.zip) IDLE/INACTIVE mode mobility enhancements for mobile IAB Kyocera discussion Rel-18 R2-2301589

[R2-2303381](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303381.zip) Discussion on IDLE/INACTIVE UE mobility enhancement Apple discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303631](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303631.zip) IDLE/INACTIVE mobility enhancements for mobile IAB Interdigital Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303845](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303845.zip) Idle mode mobility related to mIAB LG Electronics France discussion NR\_mobile\_IAB-Core

[R2-2304099](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304099.zip) Behaviour for IDLE mode UEs under a mIAB node Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

### 7.12.3 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].

BAP

[R2-2302892](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302892.zip) Enhancements to default BAP configuration during DU migration Qualcomm Inc. discussion Rel-18 NR\_netcon\_repeater

[R2-2303941](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303941.zip) Remaining BAP issues on full migration LG Electronics Inc. discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2302713](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302713.zip) Other aspects for mobile IAB CATT discussion Rel-18 NR\_mobile\_IAB

[R2-2302931](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302931.zip) Mobile IAB BAP configuration issues Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303014](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303014.zip) Discussions on BAP configurations supporting two logical DUs Fujitsu discussion Rel-18 NR\_mobile\_IAB-Core

Interference

[R2-2303505](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303505.zip) Interference mitigation and BAP impacts Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303092](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303092.zip) PCI collision in mobile IAB Sony discussion Rel-18 NR\_mobile\_IAB

[R2-2303243](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303243.zip) Discussion on BAP handling and PCI collision avoidance Lenovo discussion Rel-18

[R2-2303333](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303333.zip) Interference mitigation and PCI collision Samsung R&D Institute UK discussion

TAC RANAC

[R2-2302786](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302786.zip) TAC/RANAC update of mobile IAB-node Intel Corporation discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2303002](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303002.zip) Discussion on TAC and RNAC configuration of mobile IAB node ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

## 7.13 Further enhancement of data collection for SON MDT in NR and EN-DC

(NR\_ENDC\_SON\_MDT\_enh2-Core; leading WG: RAN3; REL-18; WID: RP-221825)

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

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

### 7.13.1 Organizational

Ls in Rapporteur input.

[R2-2302423](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302423.zip) LS on MRO for CPC and CPA and fast MCG recovery (R3-230992; contact: Huawei) RAN3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN2

[R2-2302452](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302452.zip) Reply LS on user consent of Non-public Network (S3-231399; contact: Vodafone) SA3 LS in Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core To:RAN3 Cc:RAN2, SA5

### 7.13.2 MRO for inter-system handover for voice fallback

[R2-2302613](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302613.zip) Consideration on Inter-system Handover for Voice Fallback CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303143](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303143.zip) Consideration on MRO for inter-system handover for voice fallback ZTE Corporation, Sanechips discussion Rel-18

R2-2303183 Further discussion on MRO of inter-system HO voice fallback OPPO discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core Late

[R2-2303244](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303244.zip) MRO for inter-system handover for voice fallback Lenovo discussion Rel-18

[R2-2303453](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303453.zip) MRO for inter-system handover for voice fallback Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303683](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303683.zip) MRO for inter-system handover for voice fallback Samsung R&D Institute India discussion

[R2-2303694](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303694.zip) Data collection for MRO for inter-system handover for voice fallback Qualcomm Incorporated discussion Rel-18

[R2-2303956](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303956.zip) Discussion on MRO for inter-system handover for voice fallback Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.3 MDT override

Will not be treated in #121b

### 7.13.4 SHR and SPCR

Will not be treated in #121b

### 7.13.5 SON for NR-U

Focus on UE impacts. RAN2/RAN3 progress should be considered.

Will not be treated in #121b online session. Offline email discussion is possible.

[R2-2302857](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302857.zip) Discussion on SON for NR-U Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2302858](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302858.zip) Discussion on storing LBT-FailureRecoveryConfig (Reply LS to R2-2300031) Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303113](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303113.zip) SON Enhancement for NR-U CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303144](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303144.zip) Consideration on NR-U related SON ZTE Corporation, Sanechips discussion Rel-18

[R2-2303245](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303245.zip) Discussion on MRO for NR-U Lenovo discussion Rel-18

[R2-2303673](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303673.zip) SON/MDT enhancements for NR-U Samsung R&D Institute India discussion

[R2-2303695](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303695.zip) Discussion on NR-U Related Enhancements Qualcomm Incorporated discussion Rel-18

[R2-2303803](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303803.zip) SONMDT enhancement for NR-U CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2304031](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304031.zip) Discussion on SON for NR-U Xiaomi discussion Rel-18

[R2-2304111](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304111.zip) Enhancements of SON reports for NR-U Ericsson discussion

### 7.13.6 RACH enhancement

[R2-2302614](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302614.zip) RACH enhancement for SON CATT discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2302856](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302856.zip) RA report retrieval Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303145](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303145.zip) Consideration on RACH enhancements ZTE Corporation, Sanechips discussion Rel-18

[R2-2303368](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303368.zip) Remaining issues of SON enhancements for RACH Apple discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303454](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303454.zip) RA report enhancement Ericsson discussion NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303670](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303670.zip) SON/MDT enhancements for RACH Samsung R&D Institute India discussion

[R2-2303783](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303783.zip) Discussion on RACH enhancement for SON China Telecom discussion

[R2-2303798](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303798.zip) Further considerations on RACH Enhancement CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303806](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303806.zip) Consideration on the SON enhancements for RACH report Beijing Xiaomi Software Tech discussion Rel-18

[R2-2303829](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303829.zip) SON enhancement for RA report Sharp discussion

[R2-2303957](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303957.zip) Discussion on RACH enhancement Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.7 SON/MDT enhancements for Non-Public Networks

Will not be treated in #121

[R2-2303958](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303958.zip) Discussion on SON MDT enhancements for NPN and NR-U Huawei, HiSilicon discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

### 7.13.8 Other

Will not be treated in #121b

[R2-2303182](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303182.zip) SON on fast MCG recovery OPPO discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2303246](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303246.zip) Discussion on MRO for CPAC and fast MCG link recovery Lenovo discussion Rel-18

[R2-2303787](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303787.zip) Discussion on CPAC failure report NTT DOCOMO, INC. discussion

[R2-2303799](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303799.zip) Further considerations on fast MCG recovery CMCC discussion Rel-18 NR\_ENDC\_SON\_MDT\_enh2-Core

## 7.14 Enhancement on NR QoE management and optimizations for diverse services

(NR\_QoE\_enh-Core; leading WG: RAN3; REL-18; WID: RP-223488)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

### 7.14.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan)

[R2-2302425](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302425.zip) LS on assistance information for handling of QoE reporting upon RAN overload (R3-231028; contact: Huawei) RAN3 LS in Rel-18 NR\_QoE\_enh-Core To:RAN2

[R2-2302461](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302461.zip) Reply LS on QoE measurements in RRC IDLE/INACTIVE states (S5-232760; contact: Huawei) SA5 LS in Rel-18 NR\_QoE\_enh-Core To:RAN2, RAN3 Cc:SA4

[R2-2302463](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302463.zip) LS on Approval of eQoE CRs for NR (S5-232997; contact: Ericsson) SA5 LS in Rel-18 eQoE To:RAN2, RAN3, SA4, CT1, CT4

[R2-2303676](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303676.zip) Running CR for QoE measurements Ericsson draftCR Rel-18 38.331 17.4.0 NR\_QoE\_enh-Core

[R2-2304019](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304019.zip) Draft reply LS on eQoE CRs for NR Lenovo LS out Rel-18 eQoE, NR\_QoE\_enh-Core To:SA5 Cc:RAN3, SA4, CT1, CT4

[R2-2304084](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304084.zip) Revised Work Plan for Rel-18 NR QoE Enhancement China Unicom Work Plan NR\_QoE\_enh-Core

### 7.14.2 QoE measurements in RRC\_IDLE INACTIVE

Including discussion on whether something on MBS QoE configuration can be provided in RRCRelease-message, and how would such indications work with configuration provided in RRCReconfiguration.

Including discussion on AS layer buffer size (e.g. how many values, what is the minimum value).

Including discussion on what AS layer stores in IDLE/INACTIVE and what exactly is sent to AL.

Including discussion on handling area scope for MBS QoE and how long will UE retain the QoE configuration in IDLE/INACTIVE.

[R2-2302886](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302886.zip) Discussion on support of QoE measurements in RRC\_IDLE and RRC\_INACTIVE Lenovo discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303108](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303108.zip) Discussion on QoE measurement in IDLE and INACTIVE ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303319](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303319.zip) Discussion on QoE measurement in RRC\_IDLE and RRC\_INACTIVE Samsung discussion Rel-18

[R2-2303363](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303363.zip) QoE Measurements in IDLE/INACTIVE States Apple discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303510](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303510.zip) QoE collection for IDLE and Inactive state Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2303532](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303532.zip) Consideration on QoE measurement in RRC\_IDLE and RRC\_INACTIVE CMCC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303596](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303596.zip) Discussion on QoE measurements for MBS broadcast services Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303597](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303597.zip) [DRAFT] Further reply LS to SA4 on QoE measurements in RRC IDLE/INACTIVE Huawei, HiSilicon LS out Rel-18 NR\_QoE\_enh-Core To:SA4 Cc:RAN3, SA5

[R2-2303599](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303599.zip) [DRAFT] Further reply LS to SA5 on QoE measurements in RRC IDLEINACTIVE states Huawei, HiSilicon LS out Rel-18 NR\_QoE\_enh-Core To:SA5 Cc:RAN3, SA4

[R2-2303642](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303642.zip) On QoE measurements in RRC IDLE and INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303677](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303677.zip) QoE measurements in RRC\_INACTIVE and RRC\_IDLE Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303780](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303780.zip) Considerations on QoE measurements in RRC\_IDLE and RRC\_INACTICE China Telecom discussion

[R2-2304037](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304037.zip) Discussion on QoE measurements in RRC IDLE and INACTIVE state CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2304086](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304086.zip) Discussion on QoE measurements in RRC\_IDLE and INACTIVE states China Unicom discussion NR\_QoE\_enh-Core

### 7.14.3 Rel-17 leftover topics for QoE

Including discussion on Rel-17 leftover topics as agreed in previous meetings.

This agenda item will not be treated in this meeting (except for LSs received from other WGs).

### 7.14.4 Support of QoE measurements for NR-DC

Including discussion on the new SRB (“SRB5”) configuration and procedure details (e.g. leg change, RRC configuration, QoE reporting aspects, etc.).

Including discussion on how to achieve splitting of QoE configuration identities between MN and SN.

Including discussion on different m-based QoE configurations for MN/SN (pending RAN3 decisions).

[R2-2302951](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302951.zip) Discussion on SRB5 configuration and procedure NEC discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303109](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303109.zip) Discussion on QoE measurement for NR-DC ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303309](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303309.zip) Support of QoE measurements for NR-DC LG Electronics Inc. discussion Rel-18

[R2-2303320](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303320.zip) Discussion on switching reporting leg in NR-DC Samsung discussion Rel-18

[R2-2303364](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303364.zip) Views on QoE Reporting for NR-DC Apple discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303511](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303511.zip) RAN2 issues to support QoE collection in NR-DC Qualcomm Incorporated discussion NR\_QoE\_enh-Core

[R2-2303598](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303598.zip) Discussion on QoE measurements in NR-DC Huawei, HiSilicon discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303643](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303643.zip) QoE configuration and reporting in NR-DC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2303678](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303678.zip) QoE measurements in NR-DC Ericsson discussion Rel-18 NR\_QoE\_enh-Core

[R2-2304038](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304038.zip) Discussion on support of QoE measurement for NR-DC CATT discussion Rel-18 NR\_QoE\_enh-Core

[R2-2304085](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304085.zip) Discussion on QoE configuration and reporting for NR-DC China Unicom discussion NR\_QoE\_enh-Core

### 7.14.5 Other topics

Including discussion on the continuity of legacy QoE measurement job for streaming and MTSI service during intra-5GC inter-RAT handover process.

Including any other QoE enhancement discussion (e.g. service type aspects).

This agenda item will not be treated in this meeting (except for LSs received from other WGs).

## 7.15 NR Sidelink evolution

(NR\_SL\_enh2; leading WG: RAN1; REL-18; WID: RP-230077)

Time budget: 1 TU

Tdoc Limitation: 5 tdocs

### 7.15.1 Organizational

Includes Incoming LS and rapporteur inputs.

[R2-2302407](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302407.zip) Reply LS on SL LBT failure indication and consistent SL LBT failure (R1-2302118; contact: vivo) RAN1 LS in Rel-18 NR\_SL\_enh2 To:RAN2

[R2-2302441](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302441.zip) LS on co-channel coexistence (R4-2303718; contact: Huawei) RAN4 LS in Rel-18 NR\_SL\_enh2-Core To:RAN1, RAN2

[R2-2302501](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302501.zip) [Draft] LS Response to “Reply LS on SL LBT failure indication and consistent SL LBT failure” vivo LS out Rel-18 NR\_SL\_enh2-Core To:RAN1

[R2-2302570](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302570.zip) Work plan of R18 SL-Evo OPPO, LG Work Plan Rel-18 NR\_SL\_enh2

### 7.15.2 SL-U: SL Consistent LBT failure

Includes e.g. further updates/details on SL consistent LBT failure, etc.

[R2-2302483](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302483.zip) Further discussion on SL consistent LBT failure vivo discussion NR\_SL\_enh2-Core

[R2-2302586](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302586.zip) Discussion on SL consistent LBT failure for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2302620](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302620.zip) SL Consistent LBT failure CATT discussion Rel-18 NR\_SL\_enh2

[R2-2302645](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302645.zip) Discussion on LBT impact in SL-U OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2302838](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302838.zip) LBT failure detection and recovery Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_enh2

[R2-2302843](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302843.zip) Handling consistent LBT failure Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2302872](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302872.zip) On SL-U LBT failure Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2302916](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302916.zip) LBT Failure for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2302940](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302940.zip) Discussion on left issues for SL-U LBT SHARP Corporation discussion NR\_SL\_enh2

[R2-2302948](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302948.zip) Dicsussion on SL consistent LBT failure NEC discussion Rel-18 NR\_SL\_enh2

[R2-2302967](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302967.zip) Discussion on SL Consistent LBT failure LG Electronics France discussion NR\_SL\_enh2

[R2-2303177](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303177.zip) Discussion on Sidelink consistent LBT failure handling ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2303216](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303216.zip) Discussion on SL consistent LBT failure Xiaomi discussion

[R2-2303232](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303232.zip) Discussion on Consistent LBT for NR SL-U Lenovo discussion Rel-18

[R2-2303375](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303375.zip) Discussion on SL consistent LBT failure Apple discussion Rel-18 NR\_SL\_enh2

[R2-2303573](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303573.zip) Consistent LBT failure handling for SL-U Spreadtrum Communications discussion Rel-18

[R2-2303586](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303586.zip) Discussion on SL Consistent LBT failure Qualcomm India Pvt Ltd discussion

[R2-2304006](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304006.zip) Discussion on SL Consistent LBT failure ITL discussion Rel-18

### 7.15.3 SL-U: COT sharing and LCP

Includes e.g. LCP enhancement, need of assistance info to initiating UE, further updates/details on COT sharing, etc.

[R2-2302498](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302498.zip) COT and LCP enhancement NEC discussion NR\_SL\_enh2

[R2-2302571](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302571.zip) Discussion on COT-Sharing and LCP Enhancement OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2302587](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302587.zip) Dissuccion on COT sharing and LCP for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2302621](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302621.zip) Discussion on COT sharing and LCP CATT discussion Rel-18 NR\_SL\_enh2

[R2-2302844](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302844.zip) U2U COT sharing and LCP Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2302849](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302849.zip) On COT sharing and LCP Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2

[R2-2302871](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302871.zip) Discussion on COT sharing and LCP in SL-U Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2302917](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302917.zip) COT Sharing for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2302918](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302918.zip) Implementing LCP for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2302963](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302963.zip) Discussion on COT sharing and LCP LG Electronics France discussion Rel-18 NR\_SL\_enh2

[R2-2303178](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303178.zip) Discussion on COT sharing and LCP ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2303197](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303197.zip) LCP procedure for SL-U Lenovo discussion Rel-18 NR\_SL\_enh2-Core

R2-2303217 Discussion on assistance information for COT sharing Xiaomi discussion Withdrawn

[R2-2303218](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303218.zip) Discussion on aspects related to COT sharing Xiaomi discussion

[R2-2303270](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303270.zip) Discussion on assistance information for COT sharing Xiaomi, Ericsson discussion Withdrawn

[R2-2303376](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303376.zip) Discussion on COT sharing and LCP impact Apple discussion Rel-18 NR\_SL\_enh2

[R2-2303587](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303587.zip) Discussion on COT sharing and LCP Qualcomm India Pvt Ltd discussion

[R2-2303911](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303911.zip) Discussion on changed-LCP and how UE behaves if shared-COT cannot be used vivo discussion

[R2-2304020](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304020.zip) Discussion on assistance information for COT sharing Xiaomi, Ericsson, vivo discussion

### 7.15.4 SL-U: Others

Includes e.g. MCSt impacts, SL resource (re)selection impact, leftovers on SL CAPC, SL DRX and SL CG, etc.

[R2-2302499](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302499.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302499.zip) SL resource (re)selection NEC discussion NR\_SL\_enh2

[R2-2302572](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302572.zip) Discussion on 'Best-Match' OPPO, Apple, ZTE, Xiaomi, Qualcomm, MTK discussion Rel-18 NR\_SL\_enh2

[R2-2302585](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302585.zip) Discussion on remaining issues for SL-U Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2302622](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302622.zip) Consideration on CAPC and LBT Impacts CATT discussion Rel-18 NR\_SL\_enh2

[R2-2302846](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302846.zip) Other aspects on SL-U Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2302855](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302855.zip) DTX operation in sidelink unlicensed Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh2

[R2-2302873](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302873.zip) Open aspects on SL-U operation Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2302919](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302919.zip) Mode 2 Resource Selection for SL Unlicensed InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2302965](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302965.zip) Discussion on remaining issues of SL-U LG Electronics France discussion NR\_SL\_enh2

[R2-2303179](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303179.zip) Discussion on resouce allocation and CAPC in SL-U ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2303233](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303233.zip) Other remaining issue for NR SL-U Lenovo discussion Rel-18

[R2-2303377](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303377.zip) Discussion on resource (re)selection, SL DRX and SL CG in SL-U Apple discussion Rel-18 NR\_SL\_enh2

[R2-2303588](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303588.zip) Discussion on other design considerations for SL-U Qualcomm India Pvt Ltd discussion

[R2-2303611](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303611.zip) Discussion on SL CAPC leftovers China Telecom discussion Rel-18 NR\_SL\_enh2

[R2-2303914](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303914.zip) Discussion on CAPC for non-standardized PQI to decide 'best match' vivo, Lenovo, InterDigital, ASUSTeK, Huawei, HiSilicon discussion

[R2-2304013](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304013.zip) Discussion on SL DRX ITL discussion Rel-18

### 7.15.5 SL-FR2

Includes e.g. identification of RAN2 scopes (including high-level wayforward), updates/details of related RAN1 discussion, etc. Note this agenda item may not be handled during the meeting (e.g. due to lack of time, premature RAN1 progress, etc.)

[R2-2302500](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302500.zip) Sidelink Operation on FR2 NEC discussion NR\_SL\_enh2

[R2-2302623](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302623.zip) Discussion on Sidelink Operation on FR2 CATT discussion Rel-18 NR\_SL\_enh2

[R2-2302646](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302646.zip) Discussion on SL-FR2 impact OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2302657](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302657.zip) Discussion on SL-FR2 aspects in RAN2 Nokia Germany discussion Rel-18

[R2-2302687](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302687.zip) Discussion on SL-FR2 Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2302845](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302845.zip) SL in FR2 Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2302870](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302870.zip) RAN2 aspects to support SL FR2 Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2302968](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302968.zip) Discussion on RAN2 aspects of SL-FR2 LG Electronics France discussion NR\_SL\_enh2

[R2-2303119](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303119.zip) Discussion on SL-FR2 impact to RAN2 Xiaomi discussion

[R2-2303180](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303180.zip) Initial consideration on sidelink FR2 ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2303234](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303234.zip) Discussion on FR2 operation for NR SL-U Lenovo discussion Rel-18

[R2-2303378](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303378.zip) Discussion on RAN2 work of SL FR2 Apple discussion Rel-18 NR\_SL\_enh2

[R2-2303483](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303483.zip) RAN2 Aspects of NR Sidelink Operation in FR2 Fraunhofer IIS, Fraunhofer HHI discussion Rel-18

[R2-2303574](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303574.zip) Discussion on sidelink operation on FR2 Spreadtrum Communications discussion Rel-18

[R2-2303589](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303589.zip) Discussion on SL FR2 Qualcomm India Pvt Ltd discussion

[R2-2303910](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303910.zip) Discussion on RAN2 aspects for FR2 licensed spectrum vivo discussion

### 7.15.6 SL CA Enhancements

This work assumes a very high degree of reuse from LTE

[R2-2302555](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302555.zip) Support of CA for NR Sidelink Mode-2 vivo discussion NR\_SL\_enh2-Core

[R2-2302573](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302573.zip) Discussion on Carrier Aggregation OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2302624](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302624.zip) Discussion on NR sidelink CA CATT discussion Rel-18 NR\_SL\_enh2

[R2-2302688](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302688.zip) Discussion on SL CA operation Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

[R2-2302847](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302847.zip) Aspects of SL CA Ericsson discussion Rel-18 NR\_SL\_enh2

[R2-2302874](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302874.zip) Discussion on NR SL Carrier Aggregation Intel Corporation discussion Rel-18 NR\_SL\_enh2

[R2-2302920](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302920.zip) Carrier Aggregation for NR SL InterDigital discussion Rel-18 NR\_SL\_enh2

[R2-2302969](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302969.zip) Discussion on RAN2 aspects of SL-CA enhancements LG Electronics France discussion NR\_SL\_enh2

[R2-2303181](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303181.zip) Initial consideration on sidelink CA ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

[R2-2303207](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303207.zip) On the scope of NR sidelink CA Nokia, Nokia Shanghai Bell discussion

[R2-2303219](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303219.zip) Discussion on carrier aggregation for NR sidelink Xiaomi discussion

[R2-2303379](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303379.zip) Initial discussion on Sidelink CA Apple discussion Rel-18 NR\_SL\_enh2

[R2-2303482](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303482.zip) RAN2 Aspects of NR Sidelink Carrier Aggregation Fraunhofer IIS, Fraunhofer HHI discussion Rel-18

[R2-2303590](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303590.zip) Discussion on SL CA Qualcomm India Pvt Ltd discussion

## 7.16 Artificial Intelligence Machine Learning for NR air interface

(FS\_NR\_AIML\_air; leading WG: RAN1; REL-18; WID:RP-221348)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Technical input will be prioritized, Organizational aspects may not be treated.

### 7.16.1 Organizational

LS ins. Rapporteur input.

### 7.16.2 AIML methods

Explore AIML methods that are expected applicable to this SI and their expected or potential architecture (allocation of functionality to entities), Identification of Models, other framework aspects, impact on RAN2. Most of LCM is in RAN2 scope.

Both general aspects and use-cases specific aspects are applicable (for use cases in scope). Aspects of on-line/real-time training are deprioritized at current meeting. Please input to 7.16.2.x

- Chair wonder if we can continue to deprioritize aspects of on-line/real-time training.

- Lots of support for this. Only AT&T wonder about FW compatibily.

* R2 will deprioritize aspects of on-line/real-time training for the whole SI (unless R1 identifies that it is needed for one of the studied use cases).

#### 7.16.2.1 Architecture General

Model ID: 1a. Attempt to agree a list of cases for which a model ID shall/should be used. 1b. Can discuss also model meta-data that can be useful and the detailed cases/contexts of such usefulness. Should take into account R1 progress if any. At current meeting: No need to discuss whether metadata is a sub-part of a structured model ID or whether we have other IDs, algorithm ID, function ID etc.

Mapping of Functionality to entities. 2: Identification of justifications and issues (tangible) that need the definition of architecture, function mapping, and possibly later 3GPP procedure support (e.g. a: for cases of off-line training, is there any reason to specify where training takes place, e.g. b: for cases of network-only models, what support in 3GPP specifications is expected … etc). 3: Review of RAN1 logical/functional architecture (can also consider other inspiration e.g. from R3 SA2), with logical/functional entities their relation etc. 4: At this meeting, expect that the detailed mapping to physical entities is discussed per functionality (for Data Collection, for Model tranfser/delivery, per LCM purpose etc) as below.

[R2-2302488](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302488.zip) AIML Architecture Assumptions NEC discussion FS\_NR\_AIML\_air

- Proposals in this doc: Instead of defining where training takes place proposes to focus on “storage” location and location for “data collection” consumer. Chair think the current approach for this WI is very complex. Think the approach in this tdoc is constructive, in that it adapts the language and focus on entities that with either need to be specified or are protocol end-points. Intel, ZTE, HW, china Unicom. Sony support this approach.

- Xiaomi think that we anyway need to specify where training takes place.

- LG think model storage is dep on network implementation, think we should focus on model training entity.

- Chair: there seems to not be sufficient support to adopt this view.

* noted

[R2-2302899](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302899.zip) Architecture General InterDigital discussion Rel-18 FS\_NR\_AIML\_air

P1

- IDT think there may be different granularity to current caps.

- Ericsson think we may need to CB to details as e.g. UE cap may be mode dynamic.

- TMO has concerns about UE caps, wonder if there is sufficient flexibility in the UE caps.

- Nokia think we first need to understand how dynamic this.

P2

- Ericsson wonder why this goes to LMF and not the base-station. Chair guess this is about LPP capabilities.

P1/P2:

- Chair: many companies think that the UE cap discussion is just as usual, and this is for the WI phase.

- TMO has a different proposal, concerns on the scalability of UE caps, This is not agreeable.

P10-P13

- Several companies think monitoring is very related to use cases and need to be determined by R1.

- Chair think that from RAN2 point of view, it makes sense to understand the nature of these KPIs as data need to be collected for monitoring and for training, but indeed this is very use case specific so Yes R1 need to progress. From R2 point of view would be interesting to understand the usefulness of current SON and MDT data collection.

- Chair: no agreements for these

P15-P16

- Agreeable with some fuzzification.

* FFS if For UE capability for AIML methods we use the UE capability mechanisms as defined for RRC reported and LPP reported capabilities.
* For the CSI compression and beam management use cases, model/function selection/(de)activation/switching/fallback can be UE-initiated or gNB-initiated. FFS how the different cases are different (e.g. applicability to UE-sided vs network sided model).
* For the positioning use case, model/function selection/(de)activation/switching/fallback can be UE-initiated or LMF-/ gNB-initiated. FFS how the different cases are different (e.g. applicability to UE-sided vs network sided model).

[R2-2303674](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303674.zip) Discussion on AI/ML Architecture General Qualcomm Incorporated discussion Rel-18

* Noted
* R2 assumes that Information such as FFS:vendor info, applicable conditions, model performance indicators, etc. may be required for model management and control, and should, as a starting point, be part of meta information.
* The general AI/ML framework consist of, (i) Data Collection, (ii) Model Training, (iii) Model Management, (iv) Model Inference, and (v) Model Storage.

Chair: the following was almost agreed (leave it FFS for now): AI/ML functional architecture in Figure 1 in R2-2303674 is the baseline with the modification that Performance Monitoring is changed to Model Mgmt / Performance Monitoring. It is noted that the exact interactions may need some modification depending on how each piece of functionality is specified**.**

[R2-2304116](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304116.zip) Architecture and management for AIML Ericsson discussion Rel-18 FS\_NR\_AIML\_air

- Ericsson think the figure is this document may be less controversial.

- vivo think this is too detailed

* Noted
* [AT121bis-e][014][AIML] Model ID (incl meta data) progress (OPPO)

Scope: Take into account relevant input to this meeting. Determine the use cases and usefulness of Model ID, potential additional meta data.   
Collect Comments, Identify easy agreements (if any), potential agreements, and Open Issues (which seem important to address). Pave the way for online Come-Back

Intended outcome: Report

Deadline: Online CB Monday April 24

CLOSED

R2-2304195 Report of [AT121bis-e][014][AIML18] Model ID (incl meta data) progress (OPPO) OPPO

W2 Monday Online DISCUSSION

P123

- Chair wonder what is the model-ID-based LCM?

- Nokia think an ID is anyway used, not clear if this is physical model ID or logical model ID. OPPO think it is premature to include such terminology for RAN2.

P2

- Samsung think this agreement is not needed now, can wait until further discussion on the LCM purpose.

P4

- TMO support

- CATT don’t agree D2

- vivo are not sure an operator will manage this, i.e. D2 not ok

- QC think SA2 need to be involved.

- Chair wonder what D1 is. OPPO think this is like slice ID and it can be structured.

* Model ID can be used to identify model or models for the following LCM purposes:

model selection/activation/deactivation/switching (or identification, if that will be supported as a separate step).

(e.g. for so called “model ID based LCM”)

* If model transfer/delivery is supported, model ID can be used for model transfer/delivery LCM purpose.
* How to achieve globality of the Model ID is FFS.

Initial discussion in RAN2: the following global unique model ID definition directions can be considered as a starting point:

Direction1: Pre-defined/hard-coded global unique model ID

Direction3: Assigned global unique model ID via specific ID management node.

Note: Other global unique model ID definition is not precluded.

Model ID structure, if any, is FFS

Chair: companies can also consider the remaining proposals and proposed open issues for later discussions.

R2-2302546 Discussion on Model ID and Model Meta Data OPPO discussion Rel-18 FS\_NR\_AIML\_air

R2-2302547 Functionality Mapping for LCM Purposes OPPO discussion Rel-18 FS\_NR\_AIML\_air

R2-2302649 AIML architecture Nokia, Nokia Shanghai Bell, T-Mobile US discussion Rel-18 FS\_NR\_AIML\_air

R2-2302746 General architecture assumptions, model ID and entity mapping Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

R2-2302953 Discussion on Architecture General vivo discussion Rel-18 FS\_NR\_AIML\_air

R2-2303017 Further discussions on architecture general aspects of AIML for NR air-interface CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

R2-2303053 AI/ML functionality and model-ID based LCM procedure Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

R2-2303093 Some considerations about EVEX and CP/UP solutions Sony discussion Rel-18 FS\_NR\_AIML\_air

R2-2303122 Discussion on architecture aspects Xiaomi discussion

R2-2303240 Discussion on AI/ML functionality mapping Lenovo discussion Rel-18

R2-2303371 Discussion on AI/ML model identification, LCM and capability Apple discussion Rel-18 FS\_NR\_AIML\_air

R2-2303372 Discussion on AI/ML functionality mapping to network entities Apple discussion Rel-18 FS\_NR\_AIML\_air

R2-2303521 Discussion on general architecture for AIML for NR air interface CMCC discussion Rel-18 FS\_NR\_AIML\_air

R2-2303580 Discussion on general AI architecture Spreadtrum Communications discussion Rel-18

R2-2303672 Discussion on AI/ML Capability Reporting and Model LCM SHARP Corporation discussion Rel-18

R2-2303760 Model ID and Mapping of Functions to Physical Entities MediaTek Inc. discussion

R2-2303885 Discussion on AI/ML model identification and functionality identification Futurewei Technologies discussion

R2-2303893 Discussion on model ID and mapping of functionality to entities Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

R2-2303946 Model identification and LCM aspects of AI/ML for NR air interface AT&T discussion

R2-2304126 Discussion on Functionality Mapping within NW ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

R2-2304173 AIML method\_Architecture General LG Electronics discussion Rel-18

#### 7.16.2.2 Data Collection

Expect to continue evaluation, e.g. evaluation of cases / methods wrt different LCM purposes. Determine which tangible issues if any (e.g. performance aspects) should/could be considered for later decisions on data collection.

[R2-2302650](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302650.zip) AIML data collection Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

DISCUSSION P1 P2

- OPPO wonder what is the Inference (output),

- Intel also wonder this, and think training data may be a large data set com to inference. Thnk inference output and input doesn’t need to be split.

- ZTE think use case shall be considered as well.

- CATT support to split input and output as we need to collect for labelling, and we need to add use case info.

- Nokia example: can collect radio measurement e.g. RSRP, which may be used as input, but is not the output of the model.

* Extend the previously endorsed table with 3 columns: Inference, Monitoring and Training, and explain in free text the applicability of the data collection method to the LCM purpose and the use case(s).

Go offline with this (Nokia)

* [AT121bis-e][024][AIML] Data Collection Table (Nokia)

Scope: Extend the previously endorsed table with 3 columns (3 LCM purposes): Inference, Monitoring and Training, and explain in free text the applicability of the data collection method to the LCM purpose and the use case(s).

Intended outcome: Report with agreeable (or almost agreeable) table update

Deadline: CB W2 Wednesday.

R2-2304541 Report of [AT121bis-e][024][AIML18] on Data Collection Table (Nokia) Nokia

W2 Wed DISCUSSION

P1-P5

- QC think for P1P2 we need to identify the LCM requirements and develop a table mapping framework with these. Think that adding these cloumns is not sufficient.

- QC think that for P34, want to remove “legacy”

- QC think that Nokia had proposed a different table that would have been good, for evaluating LCm requirements.

- HW think P2 should be about analysis on requirements.

- Apple think R1 may not send requirements for each LCM procedure, this is controversial in R1, think it is sufficient to have one table for now. If we get lots of into, e.g. requirements for every LCM procedure, we can split.

- CATT support P1-P4. Think it is too early to agree on table structure (P5).

- LGE agrees with QC that data collection requirements for each LCM purpose should be defined first.

- MTK agrees we can discuss requirements and need to identify the key criterion to evaluate which data collection framework is applicable to each case

- ZTE agree with MTK and Apple, can add new table if found needed.

- Nokia want to start with the legacy data collection frameworks to understand the characteristics of those. Chair think that the identified frameworks currently are the legacy ones. Ericsson Apple CATT Lenovo agrees that it makes sense to start with legacy frameworks.

- Nokia think the three columns can be used for LCM purposes requirements analysis

- Intel think indeed that current table is a starting point and we can enhance further.

- QC wonder what identified data collection frame work means. Chair think these are the data collection frameworks that we agree to be in-scope, the word identified doesn’t change any earlier agreements.

- Nokia think that we can ask RAN1 in next meeting. CATT agrees

* P1: RAN2 to understand/determine/capture requirements of data collection for the LCM functionalities and document the results. FFS on the exact presentation format. Expect RAN1 to provide some related information.
* P2: RAN2 to capture the analysis (see P1 above) separately for the use-cases, i.e., CSI feedback enhancement, beam management and positioning enhancement. FFS how we do the formatting/presentation of the results.
* P3: Study the applicability (and limitations) of each identified data collection framework for each of the identified LCM purposes, i.e., inference, monitoring and (offline) training. FFS how we do the formatting/presentation of the results.
* P4: With more progress on architectural discussion, consider the suitability of each identified data collection framework for the termination points and mapping with the location of LCM purposes/functions (inference, monitoring, (offline) training)

- Model sidedness (UE side, NW side, two sided) FFS

- Use case mapping FFS

* P5: RAN2 to modify the previously endorsed table by adding 3 additional columns: inference; monitoring and (offline) training. Whether to, and how to further restructure the table is FFS.

[R2-2302954](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302954.zip) Discussion on data collection vivo discussion Rel-18 FS\_NR\_AIML\_air

DISCUSSION only on EVEX

- Nokia wonder what this means. What is uniform. Vivo think we may have different mechanisms and there may be benefits with just using one mechanism.

- Ericsson have concerns, bec the use cases are RAN centric and think that Data may be needed by the gNB. Can then the gNB get this data if we use EVEX. R3 has already discussed this and are considering only with EVEX. Vivo think R3 considers network internal AIML.

- vivo think EVEX could provide data to RAN nodes, think we can confirm with SA2 ..

- CATT wonder how security is ensured with EVEX?

- CMCC also has concerns on EVEX, think L1 L2 measurements usually would be kept in gNB or UE.

- LGE think this is one option, and we can check with SA2 if needed.

- Apple has similar view as Ericsson, think the L1 measurements cannot be included in the UEs application layer. Think SA2 SA4 are already considering this.

- AT&T think for data collection we need more fine grained control e.g. for When the data is reported as this may be large data volumes.

- QC think that a lot of data to be collected will not be standardized and EVEX is a good solution for this. There is no Sec issues, and think that EVEX would be for training so there would be no timing issues.

- Sony think EVEX may need enhancements to be used, but can ask other groups ..

- VDF support to have EVEX as an option.

Chair: There is some support to add EVEX as an option, but there is a lot of concerns. Majority of companies seems to have concerns.

Chair: Maybe the vivo proposal was too wide: Proposal: Add EVEX (or modified EVEX if needed) as one potential option for collection of data for training for UE side models.

- Huawei, ZTE, OPPO, CMCC, Ericsson and Apple object

* Noted

[R2-2303947](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303947.zip) Data collection aspects of AI/ML for NR air interface AT&T discussion

- AT&T think none of the existing frameworks are very optimal for AIML, e.g. we need time control (beyond correlation) of reported measurements.

- IDT agrees some enhancements may be needed, don’t think we need a new framework.

- QC think that EVEX is easy to modify for this.

- Samsung think MDT is being enhanced right now, on R3 initiative.

- Chair: There are lot of tohru comments that MDT/RRM is a suitable starting point.

* Observation: RAN2 may need to consider enhancements for AIML to existing functionality for data collection, e.g. for timing control (e.g. for MDT/RRM).

R2-2303684 Discussion on Data Collection for Offline Model Training Qualcomm Incorporated discussion Rel-18

R2-2303761 Discussion on Data Collection MediaTek Inc. discussion

R2-2304127 Discussion On the Purpose Driven Data Collection in LCM ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

R2-2302548 Data Collection for LCM Purposes OPPO discussion Rel-18 FS\_NR\_AIML\_air

R2-2302489 AIML Data Collection NEC discussion FS\_NR\_AIML\_air

R2-2302747 Further analysis on data collection framework Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

R2-2303018 Considerations on data collection of AIML for NR air-interface CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

R2-2303121 Discussion on data collection Xiaomi discussion

R2-2303241 Qualitative analysis on data collection requirements Lenovo discussion Rel-18

R2-2303373 Further discussion on data collection for AI/ML Apple discussion Rel-18 FS\_NR\_AIML\_air

R2-2303522 Discussion on data collection for AIML model CMCC discussion Rel-18 FS\_NR\_AIML\_air

R2-2303581 Discussion on data collection Spreadtrum Communications discussion Rel-18

R2-2303627 Data collection for AIML Interdigital Inc. discussion Rel-18 FS\_NR\_AIML\_air

R2-2303668 Further discussion on Data Collection for AI/ML Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

R2-2303894 Discussion on data collection Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

R2-2304035 Data collection for AIML methods TCL Communication Ltd. discussion

R2-2304112 Data collection for AI/ML Ericsson discussion

R2-2304159 Discussion on relations between LCM and Data collection NTT DOCOMO INC. discussion

=> Revised in R2-2304187

R2-2304187 Discussion on relations between LCM and Data collection NTT DOCOMO INC. discussion

R2-2304174 AIML method\_Data Collection LG Electronics discussion Rel-18

#### 7.16.2.3 Model transfer – delivery

Expect to continue evaluation of cases / methods wrt different LCM purposes. Determine which tangible issues if any (e.g. performance aspects) should/could be considered for later decisions on data collection.

R2-2303693 Discussion on Model Transfer/Delivery Qualcomm Incorporated discussion Rel-18

R2-2303762 Discussion on AI/ML Model Transfer/Delivery MediaTek Inc. discussion

R2-2304117 On the need for model transfer Ericsson discussion Rel-18 FS\_NR\_AIML\_air

R2-2302651 AIML model transfer delivery Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

R2-2302490 AIML Model transfer NEC discussion FS\_NR\_AIML\_air

R2-2302491 AIML Model transfer for mobility NEC discussion FS\_NR\_AIML\_air

R2-2302549 Open Issue Discussion on Model Transfer/Delivery OPPO discussion Rel-18 FS\_NR\_AIML\_air

R2-2302748 architecture impact on model transfer method Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

R2-2302955 Discussion on model transfer vivo discussion Rel-18 FS\_NR\_AIML\_air

R2-2303015 Discussions on AIML model transfer via air interface Fujitsu discussion Rel-18 FS\_NR\_AIML\_air

R2-2303019 Further discussions on AIML model transfer CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

R2-2303054 Model transfer/delivery solutions Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

R2-2303094 Some considerations about CSI compression Sony discussion Rel-18 FS\_NR\_AIML\_air

R2-2303120 Discussion on model delivery Xiaomi discussion

R2-2303374 Further discussion on model transfer Apple discussion Rel-18 FS\_NR\_AIML\_air

R2-2303523 Discussion on AIML model transfer delivery CMCC discussion Rel-18 FS\_NR\_AIML\_air

R2-2303582 Discussion on model transfer-delivery Spreadtrum Communications discussion Rel-18

R2-2303628 Way forward for AIML Model transfer/delivery Interdigital Inc. discussion Rel-18 FS\_NR\_AIML\_air

R2-2303778 Discussion on gNB LMF awareness of UE side model Lenovo discussion Rel-18 FS\_NR\_AIML\_air

R2-2303895 Discussion on model transfer and model delivery Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

R2-2303948 AI/ML model transfer and delivery AT&T discussion

R2-2304040 Discussion on Model transfer/delivery for AIML methods TCL Communication Ltd. discussion

R2-2304128 urther Considerations On the Model Transfer study in RAN2 ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

R2-2304175 AIML method\_Model Transfer Delivery LG Electronics discussion Rel-18

#### 7.16.2.4 Model Control other

Model control beyond / other than Model transfer – delivery

R2-2303896 Discussion on model control and others Huawei, HiSilicon discussion Rel-18 FS\_NR\_AIML\_air

R2-2302652 AIML control and other topics Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_AIML\_air

R2-2302749 model control procedure: RAN2 impact Intel Corporation discussion Rel-18 FS\_NR\_AIML\_air

R2-2302753 AI ML model management during RRC state transitions and mobility Rakuten Symphony discussion Rel-18

R2-2302900 Decision and Signaling for AI/ML Model Switching InterDigital discussion Rel-18 FS\_NR\_AIML\_air

R2-2302956 Discussion on model monitoring vivo discussion Rel-18 FS\_NR\_AIML\_air

R2-2303020 Considerations on other model control procedures CATT, Turkcell discussion Rel-18 FS\_NR\_AIML\_air

R2-2303055 Indication of supported AI/ML models and functionalities Samsung R&D Institute UK discussion Rel-18 FS\_NR\_AIML\_air

R2-2303442 AI/ML model control for positioning accuracy enhancement Xiaomi discussion

R2-2303583 Discussion on other model control method Spreadtrum Communications discussion Rel-18

R2-2303685 Discussion on Model Life Cycle Management Qualcomm Incorporated discussion Rel-18

R2-2303763 Model Control and Model Monitoring MediaTek Inc. discussion

R2-2303949 AI/ML model control AT&T discussion

R2-2304118 Applicability reporting Ericsson discussion Rel-18 FS\_NR\_AIML\_air

R2-2304129 Consideration on General Porocedure For Different Use Cases ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_AIML\_air

## 7.17 Dual Transmission/Reception (Tx/Rx) Multi-SIM for NR

(NR\_DualTxRx\_MUSIM-Core; leading WG: RAN2; REL-18; WID: [RP-230751](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_99/Docs/RP-230751.zip))

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

### 7.17.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan)

[R2-2302430](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302430.zip) LS on priority for MUSIM gaps (R4-2303249; contact: vivo) RAN4 LS in Rel-18 NR\_DualTxRx\_MUSIM-Core To:RAN2

[R2-2303266](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303266.zip) MUSIM Stage 2 running CR vivo discussion Rel-18

### 7.17.2 Procedures for MUSIM temporary capability restriction

Including discussion on UE procedures when UE is in IDLE/INACTIVE towards NW A, e.g. how to handle UE moving to CONNECTED in NW A while already being CONNECTED in NW B: Does UE indicate something in RRC setup/resume request towards NW A or NW B?

Including discussion on UE procedures when UE is in CONNECTED towards NW A, e.g. how to handle UE moving to CONNECTED in NW B

Including discussion on how UE indicates it is using temporary UE capabilities at connection setup/resume

[R2-2302550](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302550.zip) Procedures for MUSIM temporary capability restriction OPPO discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2302721](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302721.zip) UE Capability restrictions for Dual-Active MUSIM Qualcomm Incorporated discussion

[R2-2302725](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302725.zip) Consideration on capability restriction for dual Rx/Tx MUSIM DENSO CORPORATION discussion NR\_DualTxRx\_MUSIM-Core

[R2-2302781](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302781.zip) Further considerations on the capability restriction request for Rel-18 MUSIM Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303188](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303188.zip) Baseline signalling procedure options for temporary capability restrictions. Nokia, Nokia Shanghai Bell discussion

[R2-2303225](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303225.zip) Procedure of dual Tx/Rx Multi-SIM Lenovo discussion Rel-18

[R2-2303267](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303267.zip) Procedures for MUSIM temporary capability restriction vivo discussion Rel-18

[R2-2303409](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303409.zip) Procedures for MUSIM temporary capability restriction Apple discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303639](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303639.zip) Overall Dual-RX/TX MUSIM procedure Ericsson discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303669](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303669.zip) Procedures for MUSIM temporary capability restriction Samsung R&D Institute India discussion

[R2-2303774](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303774.zip) Procedure of UE Capability Restriction for eMUSIM Sharp discussion

[R2-2303874](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303874.zip) Temporary Capability Restriction for Idle/Inactive State Transfer ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2304026](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304026.zip) Procedures for MUSIM Temporary Capa Restriction LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

### 7.17.3 Allowed MUSIM temporary capability restrictions

Including discussion on which UE capabilities can be impacted by temporary UE capability restrictions and how signalling of temporary UE capability changes works (e.g. for band combination restrictions due to band conflict), what is the granularity of temporary UE capability restrictions, and what does UE report to the network?

[R2-2302551](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302551.zip) Allowed MUSIM temporary capability restrictions OPPO discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2302782](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302782.zip) Signalling to indicate temporary capability reduction for Rel-18 MUSIM Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2302966](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302966.zip) Allowed MUSIM temporary capability restrictions Samsung R&D Institute India discussion Rel-18

[R2-2303189](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303189.zip) Adidtional aspects related to capability restriction signalling Nokia, Nokia Shanghai Bell discussion

[R2-2303268](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303268.zip) Discussion on temporary capability restriction for Rel-18 Multi-SIM vivo discussion Rel-18

[R2-2303350](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303350.zip) Capability sharing issue for SRS Tx switching capability Xiaomi discussion Rel-18 NR\_DualTxRx\_MUSIM-Core R2-2301116

[R2-2303351](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303351.zip) Remaining issues on band combination restrictions due to band conflict Xiaomi discussion Rel-18 NR\_DualTxRx\_MUSIM-Core R2-2301117

[R2-2303410](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303410.zip) Parameters for MUSIM temporary capability restriction Apple discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303455](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303455.zip) Further discussion on the UE-initiated SCell/SCG deactivation and activation for MUSIM Huawei, HiSilicon, Vodafone, Vivo discussion Rel-18

[R2-2303470](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303470.zip) Further discussion on MUSIM temporary capability restrictions Huawei, HiSilicon discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303623](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303623.zip) Discussion on temporary UE capability restriction for MUSIM MediaTek Inc. discussion R2-2300816

[R2-2303624](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303624.zip) Disucssion on UE capability restriction signaling China Telecommunications discussion

[R2-2303640](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303640.zip) Discussion on restricted UE capabilities Ericsson discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303779](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303779.zip) Support of UE requesting SCell/SCG Deactivation for eMUSIM Sharp discussion

[R2-2303873](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303873.zip) Consideration on the Temporary Capability Restriction ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303938](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303938.zip) Discussion on temporary capability restriction for Dual Tx/Rx Multi-SIM ASUSTeK discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2304027](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304027.zip) Simple Methods for MUSIM Temporary Capa Restriction LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

### 7.17.4 MUSIM gap priorities and other RAN4 impacts

Including discussion on RAN4 LS [R4-2303249](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_106/Docs/R4-2303249.zip) concerning Rel-17 MUSIM gap priorities

Including analysis on RAN4 impact on the maximum UL power change due to R18 MUSIM

[R2-2302724](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302724.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302724.zip) Remaining issues for MUSIM gaps Qualcomm Incorporated discussion

[R2-2302783](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302783.zip) Gap collision handling for Rel-17 gaps Intel Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303190](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303190.zip) On MUSIM gap priority and uplink power sharing aspects of MUSIM operation Nokia, Nokia Shanghai Bell discussion

[R2-2303269](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303269.zip) Discussion on MUSIM gap priorities vivo discussion Rel-18

[R2-2303352](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303352.zip) Discussion on MUSIM gap priorities Xiaomi discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303411](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303411.zip) Views on RAN4 LS for MUSIM gap priorities Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2303471](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303471.zip) Discussion on MUSIM gaps and other RAN4 topics Huawei, HiSilicon discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303641](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303641.zip) MUSIM gap priorities Ericsson discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303828](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303828.zip) Discussion on MUSIM gap priorities and maximum UL power change Samsung Electronics Austria discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303875](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303875.zip) Consideration on the Scheduling Gap Priority ZTE Corporation, Sanechips discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2303937](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303937.zip) Discussion on maximum UL power change for Dual Tx/Rx Multi-SIM ASUSTeK discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

[R2-2304028](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304028.zip) MUSIM Gap Priority LG Electronics discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

## 7.18 Mobile Terminated Small Data Transmission

(NR\_NR\_MT\_SDT-Core; leading WG: RAN2; REL-18; WID: RP-222993)

Time budget: 0 TU

Tdoc Limitation: 0 tdoc

This topic is not planned to be treated in RAN2 121bis-e.

## 7.19 Enhanced support of reduced capability NR devices

(NR\_redcap\_enh-Core; leading WG: RAN1; REL-18; WID: RP-223544)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 7.19.1 Organizational

Incoming LSs, etc.

[R2-2302417](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302417.zip) Reply LS on long eDRX support for RRC\_INACTIVE (R3-230803; contact: Ericsson) RAN3 LS in Rel-18 FS\_REDCAP\_Ph2 To:SA2, RAN2

### 7.19.2 Enhanced eDRX in RRC\_INACTIVE

PTW location and duration in overlapping/non-overlapping PHs. Which paging to monitor in the PTWs/calulation of T.

Fallback behaviour when UE moves to cell not supporting INACTIVE eDRX > 10.24s.

Support of INACTIVE eDRX (only for UEs supporting Rel-17 eDRX?).

[R2-2302496](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302496.zip) Fallback behaviour for eRedcap UE NEC discussion NR\_redcap\_enh-Core

[R2-2302497](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302497.zip) Paging monitoring for Inactive UE in enhanced eDRX NEC discussion NR\_redcap\_enh-Core

[R2-2302531](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302531.zip) Discussion on enhanced eDRX in RRC\_INACTIVE OPPO discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302565](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302565.zip) Discussion on enhanced eDRX in RRC\_INACTIVE CATT discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302642](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302642.zip) Discussion on enhanced eDRX in RRC\_INACTIVE China Telecommunications discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302703](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302703.zip) Discussion on e-DRX for eRedcap Devices Xiaomi Communications discussion

[R2-2302735](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302735.zip) RAN2 impacts to support eDRX in RRC\_INACTIVE above 10.24 sec Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302803](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302803.zip) On eDRX for enhanced RedCap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302815](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302815.zip) Discussion on UE fallback behaviour for INACTIVE eDRX vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302816](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302816.zip) Enhanced eDRX cycle in RRC\_INACTIVE for eRedCap UEs vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302824](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302824.zip) Further discussion on longer eDRX in RRC\_INACTIVE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303304](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303304.zip) Enhanced eDRX in RRC\_INACTIVE MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303321](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303321.zip) Discussion on available eDRX configurations Samsung discussion Rel-18

[R2-2303322](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303322.zip) Discussion on enhanced eDRX in RRC\_INACTIVE Samsung discussion Rel-18

[R2-2303396](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303396.zip) RedCap PTW/PH operation for >10.24sec INACTIVE eDRX Apple discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303397](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303397.zip) RedCap UE behavior in cells not supporting R18 eDRX Apple discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303468](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303468.zip) Discussion on enhanced eDRX in RRC\_INACTIVE Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303542](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303542.zip) Discussion on eDRX in RRC\_INACTIVE CMCC discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303561](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303561.zip) Discussion on enhanced eDRX in RRC inactive Qualcomm Incorporated discussion NR\_redcap\_enh-Core

[R2-2304063](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304063.zip) Extending eDRX cycles in RRC\_INACTIVE Ericsson discussion Rel-18 NR\_redcap\_enh-Core

### 7.19.3 Further reduced UE complexity in FR1

Early indication.

Access restriction for eRedCap.

Capability related, e.g. how to define an eRedCap UE.

[R2-2302528](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302528.zip) Discussion on access restriction for eRedCap Futurewei discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302532](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302532.zip) Discussion on early indication for eRedCap UE OPPO discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302544](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302544.zip) Discussion on cellbarring for eRedCap UEs OPPO discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302566](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302566.zip) Discussion on further UE complexity reduction CATT discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302640](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302640.zip) Discussion on access restriction and capability related for eREDCAP China Telecommunications discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302641](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302641.zip) Discussion on Early Indication for eREDCAP China Telecommunications discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302704](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302704.zip) Discussion on early indication for eRedcap devices Xiaomi Communications discussion

[R2-2302705](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302705.zip) Discussion on UE access restrictions and other impacts for eRedcap devices Xiaomi Communications discussion

[R2-2302736](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302736.zip) RAN2 impacts to support Rel-18 RedCap UEs Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302737](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302737.zip) Capability impacts to support Rel-18 RedCap UEs Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302802](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302802.zip) On access restrictions for enhanced RedCap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302817](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302817.zip) Discussion on access restriction and capability for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302825](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302825.zip) Early indication and access restriction for eRedCap UE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302826](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302826.zip) Capability definition and report for eRedCap UE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

[R2-2302949](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302949.zip) Discussion on early indication and access restriction for eRedCap NEC discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303069](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303069.zip) Early identification and access restriction for eRedCap UEs Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303070](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303070.zip) Discussion on how to define and capture the capability of eRedCap UEs Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303149](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303149.zip) Discussion on access restriction for eRedCap Sharp discussion

[R2-2303305](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303305.zip) Early identification for eRedCap devices MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303306](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303306.zip) Access restrictions for eRedCap devices MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303323](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303323.zip) Discussion on early indication and access restriction Samsung discussion Rel-18

[R2-2303543](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303543.zip) Discussion on further reduced UE complexity CMCC discussion Rel-18 NR\_redcap\_enh-Core

[R2-2303562](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303562.zip) Discussion on further complexity reduction for eRedCap UE Qualcomm Incorporated discussion NR\_redcap\_enh-Core

[R2-2303563](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303563.zip) Discussion on optional UE capability filter for eRedCap UE Qualcomm Incorporated, Ericsson, Intel discussion NR\_redcap\_enh-Core R2-2301294

[R2-2303568](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303568.zip) Discussion on further reduced UE complexity in FR1 for Rel-18 RedCap UE Spreadtrum Communications discussion Rel-18

[R2-2303657](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303657.zip) Early indication and access restrictions for eRedCap UE Sierra Wireless. S.A. discussion

[R2-2303689](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303689.zip) On early indication for enhanced RedCap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

[R2-2304010](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304010.zip) Further discussion on early indication for Rel-18 RedCap UE LG Electronics Inc. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2304062](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304062.zip) Early indication for eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core

[R2-2304064](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304064.zip) Discussion on cell barring for eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core

[R2-2304069](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304069.zip) Discussion on further UE complexity reduction for eRedCap NTT DOCOMO INC. discussion Rel-18 NR\_redcap\_enh-Core

[R2-2304171](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304171.zip) Considerations on Further reduced UE complexity for eRedcap Sequans Communications discussion Rel-18 NR\_redcap\_enh-Core

## 7.20 NR MIMO evolution

(NR\_MIMO\_evo\_DL\_UL-Core; leading WG: RAN1; REL-18; WID: RP-223276)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

### 7.20.1 Organizational

Rapporteur input, incoming LS etc.

[R2-2302455](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302455.zip) LS to RAN2/4 on Agreements for Rel-18 MIMO (R1-2302226; contact: Samsung) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL To:RAN2, RAN4

[R2-2302616](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302616.zip) RAN2 work plan for MIMO evolution NTT DOCOMO, INC., Samsung, Huawei, HiSilicon Work Plan Rel-18

### 7.20.2 Two TAs for multi-DCI multi-TRP

Includes discussion on whether to support per TRP UE-initiated RACH procedure, other RAN2 impacts of Two TAs for multi-DCI multi-TRP operation, etc.

R2-2302568 Discussion on multiple TAG OPPO discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2302692](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302692.zip) Discussion on multi-DCI multi-TRP with two TAs Intel Corporation discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2302879](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302879.zip) Two TAs for multi-DCI multi-TRP Huawei, HiSilicon discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2302939](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302939.zip) Discussion on Multi-TRP with two TAs SHARP Corporation discussion NR\_MIMO\_evo\_DL\_UL-Core

[R2-2302975](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302975.zip) Discussion on two TAs for multi-TRP NEC Corporation discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303016](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303016.zip) Considerations on multi-DCI multi-TRP operation with two TAs Fujitsu discussion Rel-18 NR\_MIMO\_evo\_DL\_UL R2-2301035

[R2-2303022](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303022.zip) Discussions on Two TAs for multi-DCI multi-TRP CATT discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303248](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303248.zip) Discussion on the impacts of Two TAs for multi-DCI multi-TRP operation Lenovo discussion Rel-18

[R2-2303249](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303249.zip) Discussion on the UE-initiated RACH procedure in multi-TRP operation Lenovo discussion Rel-18

[R2-2303422](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303422.zip) Support of Two TAs for multi-DCI multi-TRP Apple discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303560](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303560.zip) Discussion on multi-DCI multi-TRP with two TAs Qualcomm Incorporated discussion NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303690](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303690.zip) On multi-DCI multi-TRP with two TAs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303691](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303691.zip) RA procedure while SpCell is configured with 2 TAGs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303708](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303708.zip) On 2TA operation Ericsson discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303732](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303732.zip) UL time alignment in multi-DCI based multi-TRP with two TAs InterDigital discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303757](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303757.zip) Discussion on TA maintenance in two TAs for multi-TRP LG Electronics Inc. discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303769](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303769.zip) Discussion on two TAs for multi-DCI multi-TRP Samsung Research America discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2304042](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304042.zip) Discussion on two TAs for multi-TRP Xiaomi discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2304131](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304131.zip) Intial Discussion On 2TA for unified TCI state based mPDCCH mTRP ZTE Corporation,Sanechips discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2304132](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304132.zip) Considerations on the PDCCH order RACH for acquiring the TRP sepcific TA ZTE Corporation,Sanechips discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

### 7.20.3 Other

Other RAN2 impacts than those discussed in 7.20.1 and 7.20.2.

Note: This agenda item is with lower priority, i.e., it is treated only if time allows.

[R2-2302880](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302880.zip) Extension of unified TCI framework for mTRP Huawei, HiSilicon discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303023](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303023.zip) Discussion on Unified TCI Framework Extension for Multi-TRP CATT discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303064](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303064.zip) MAC impacts on the enhancements of the unified TCI state framework Samsung discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303725](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303725.zip) On incoming LSs on Rel-18 MIMO Ericsson discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303758](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303758.zip) Discussion on power control for multi-TRP LG Electronics Inc. discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2303939](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303939.zip) Intra-UE prioritization for simultaneous multi-panel transmission ASUSTeK discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

## 7.21 Further NR coverage enhancements

(NR\_cov\_enh2-Core; leading WG: RAN1; REL-18; WID: RP-221858)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

### 7.21.1 Organizational

Incoming LSs, Rapporteur input etc.

[R2-2303074](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303074.zip) Work plan for Further NR coverage enhancements China Telecom discussion Rel-18 NR\_cov\_enh2-Core

### 7.21.2 General

Identify RAN2 impacts for PRACH coverage enhancements (based on RAN1 agreements), overall imapct to RACH procedure and configuration of RACH resources.

[R2-2302567](C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302567.zip" \o "C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302567.zip) Discussion on PRACH coverage enhancements CATT discussion Rel-18 NR\_cov\_enh2

[R2-2302598](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302598.zip) RAN2 Impacts of Further NR Coverage Enhancements vivo discussion Rel-18 NR\_cov\_enh2-Core Late

[R2-2302600](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302600.zip) RAN2 Impacts for further NR Coverage Enhancements Samsung Electronics Co., Ltd discussion Rel-18 NR\_cov\_enh2-Core

[R2-2302888](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302888.zip) Discussion on Multiple PRACH transmissions Ericsson discussion Rel-18 NR\_cov\_enh2-Perf

[R2-2302926](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302926.zip) Uplink Coverage Enhancement Qualcomm Incorporated discussion Rel-18

[R2-2303075](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303075.zip) RAN2 impacts of Coverage Enhancement China Telecom discussion Rel-18 NR\_cov\_enh2-Core

[R2-2303292](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303292.zip) RAN2 impacts on R18 PRACH coverage enhancements ZTE Corporation, Sanechips discussion Rel-18 NR\_cov\_enh2-Core

[R2-2303605](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303605.zip) Multiple PRACH transmissions InterDigital discussion Rel-18 NR\_cov\_enh2-Core

[R2-2303692](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303692.zip) RAN2 impacts of PRACH CE Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_cov\_enh2-Core

[R2-2303815](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303815.zip) Discussion on RAN2 impacts for PRACH coverage enhancement Huawei, HiSilicon discussion

[R2-2304011](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304011.zip) RAN2 aspects on support of multiple PRACH transmission LG Electronics Inc. discussion Rel-18 NR\_cov\_enh2-Core

[R2-2304034](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304034.zip) Discussion on RAN2 impact of PRACH enhancement Xiaomi discussion Rel-18

## 7.22 Study on low-power wake-up signal and receiver for NR

(FS\_NR\_LPWUS; leading WG: RAN1; REL-18; WID: RP-222644)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

At Current meeting, mostly scope clarification discussion is expected: Identify RAN2 impacts, expected RAN2 decision topics. Can also assess RAN1 maturity and RAN2 dependency on RAN1 progress.

Selected concrete technical proposals may be treated, if any.

### 7.22.1 Organizational

Incoming LSs, Rapporteur input etc.

[R2-2302661](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302661.zip) Scope of Rel-18 SI on LP-WUS/WUR vivo (Rapporteur) discussion Rel-18 FS\_NR\_LPWUS

P1

- Chair wonder if RAN2 will do Quantitative eval. Vivo understand that RAN2 don’t need to do the evaluation in RAN2.

- Chair wonder if we should just include RRC idle/inactive/connected. There are proposals to wait with Connected mode. OPPO, apple, Nokia, HW, SS, VDF think we include all. Xiaomi has same Q. vivo think we can discuss all the states. HW think connected scope would be smaller for connected ..

P2

- VDF wonder if this has impact on legacy procedures. Chair suggest to wait with this.

* Aim to do every Q: Collect RAN2 text proposals in a single document during the following meeting(s) and send the document to RAN1 as the input to the TR 38.869.
* Confirm that we follow R1 and include RRC idle/inactive/connected.

[R2-2303462](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303462.zip) Update of TR 38.869 for LP-WUS WUR vivo (Rapporteur) discussion Rel-18 FS\_NR\_LPWUS

* noted

[R2-2303463](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303463.zip) Work Plan for Rel-18 SI on LP-WUS/WUR vivo (Rapporteur) discussion Rel-18 FS\_NR\_LPWUS

* noted

### 7.22.2 General

Idle Inactive Mode

[R2-2302977](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302977.zip) Impact of LP-WUR in RRC Idle/Inactive Intel Corporation discussion Rel-18 FS\_NR\_LPWUS

Questions for Clarification

- VDF wonder if this is for the case when the LPWUS coverage is different to MR. Intel confirms that this is indeed assumed for now. VDF think this depends on R1, we may need to consider this.

* Noted

[R2-2302662](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302662.zip) Discussion on LP-WUS/WUR in RRC\_Idle/Inactive vivo discussion Rel-18 FS\_NR\_LPWUS

Questions for clarification

- OPPO wonder about P4, wonder whether LPWUS receiver is always on or not. Vivo think LPradio could be always on or have a duty cycle and is being discussed in R1.

- QC think it is up to UE impl is MR is on or off. Is there a reason why we need to control UE behaviour for MR, we only need to specify for LPWUS. Vivo think we can look at this, the mentioning of ultra-deep-sleep is for explanation and what to actually capture need to be discussed.

- CATT think this is a good discussion, wonder if the network need to know if the UE receives by LPWUS or both, or whether we can really just leave this for UE impl. QC agrees the details need to be looked at.

- VDF think we need some state. Vivo think R1 introduced the ultra-deep-sleep. QC think this is just a convenient term for evaluations.

- Xiaomi think we will need to define new meaning to the ultra-deep-sleep, e.g. Mico mode.

* Noted
* Ultra-deep-sleep = R2 understands for now that this is a power saving state (introduced by R1) to denote a state when the Main Receiver (MR) may sleep/turn off.

[R2-2302518](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302518.zip) Use of low-power receiver in RRC Idle/Inactive Qualcomm Incorporated discussion Rel-18 FS\_NR\_LPWUS

Questions

- OPPO wonder if we would modify the PO calculation or not for this item. QC think it is beneficial to keep the legacy PO as the UE can resort to just receive paging (without LPWUS) if/when needed, and we may see the LPWUS as assistance signal to MR.

- vivo think also R1 are discussing, think that PO may need to be modified to reduce the latency, and we can follow R1 if they decide to change. HW agrees.

- Apple wonder how we can discuss measurements. QC doc proposes this. QC agrees some part of the proposals are more R1 R4 focus but think that procedures are in R2 scope.

- Ericsson think wrt measurements, we can possibly look at tentative R2 impacts, until R1 R4 has progressed more

* Noted
* In scope: Use LPWUS with Idle / Inactive UE camping with reception of paging and other necessary transmissions (from serving cell), reusing if possible/reasonable concepts from earlier releases, where the LPWUS either wakes the UE to receive by MR, or it conveys information by itself, or both.

[R2-2303747](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303747.zip) Discussion on impact to IDLE/INACTIVE procedures to support LP-WUR SAMSUNG R&D INSTITUTE INDIA discussion Rel-18

[R2-2302706](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302706.zip) General considerations on the procedure of LP-WUS Xiaomi Communications discussion

[R2-2302801](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302801.zip) On low-power wake-up signal in RRC IDLE and INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_LPWUS

[R2-2303469](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303469.zip) High layer procedures for low-power WUS in IDLE and INACTIVE state Huawei, HiSilicon discussion Rel-18 FS\_NR\_LPWUS

[R2-2302827](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302827.zip) Considerations on RAN2 impacts of LP-WUS ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_LPWUS

[R2-2302828](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302828.zip) Paging mechanism with LP-WUS ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_LPWUS

[R2-2302707](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302707.zip) Discussiong on LP-WUS monitoring Xiaomi Communications discussion

Connected Mode & General

[R2-2302542](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302542.zip) Discussion on LP-WUR’s operation OPPO discussion Rel-18 FS\_NR\_LPWUS

[R2-2302981](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302981.zip) Impact of LP-WUR in RRC Connected mode Intel Corporation discussion Rel-18 FS\_NR\_LPWUS

[R2-2302519](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302519.zip) Use of low-power receiver in RRC Connected Qualcomm Incorporated discussion Rel-18 FS\_NR\_LPWUS

[R2-2302537](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302537.zip) Discussion on RRM measurement for LP-WUR OPPO discussion Rel-18 FS\_NR\_LPWUS

[R2-2302663](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302663.zip) Discussion on LP-WUS/WUR in RRC\_Connected vivo discussion Rel-18 FS\_NR\_LPWUS

[R2-2302777](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302777.zip) Discussion on general aspect for LPWUS from RAN2 perspective NEC Corporation discussion Rel-18 FS\_NR\_LPWUS

[R2-2302984](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302984.zip) Discussion on LP-WUS impact on higher layer procedures CATT discussion Rel-18 FS\_NR\_LPWUS

[R2-2303209](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303209.zip) Low-power WUS in RRC\_CONNECTED Nokia, Nokia Shanghai Bell discussion

[R2-2303423](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303423.zip) RAN2 impact on LP-WUS Apple discussion Rel-18 FS\_NR\_LPWUS

[R2-2303493](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303493.zip) RAN2 impacts to support LP-WUS Huawei, HiSilicon discussion Rel-18 FS\_NR\_LPWUS

[R2-2303750](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303750.zip) Discussion on impact to Connected mode procedures to support LP-WUR SAMSUNG R&D INSTITUTE INDIA discussion Rel-18

TR contents centric

[R2-2304067](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304067.zip) LP-WUS design and L1 procedure Ericsson discussion Rel-18 FS\_NR\_LPWUS

[R2-2304068](file:///C:\Users\johan\OneDrive\Dokument\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304068.zip) LP-WUR Higher-Layer Aspects Ericsson discussion Rel-18 FS\_NR\_LPWUS

## 7.23 Timing Resiliency and URLLC Enh

(NR\_TRS\_URLLC; leading WG: RAN3; REL-18; WID: RP-230754)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

### 7.23.1 Organizational

Incoming LSs, Rapporteur input etc.

[R2-2303864](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303864.zip) Timing Resiliency and URLLC enh Workplan Nokia, Nokia Shanghai Bell discussion Rel-18 TRS\_URLLC-NR-Core

### 7.23.2 General

[R2-2302689](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302689.zip) Discussion on 5GS Clock quality information delivery to UE Huawei, HiSilicon discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2302690](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302690.zip) Discussion on UL reactive RAN feedback for burst sending time adjustment Huawei, HiSilicon discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2302722](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302722.zip) Discussion on RAN Feedback for Low Latency Communication vivo discussion Rel-18 TRS\_URLLC-NR-Core Late

[R2-2302723](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302723.zip) Discussion on 5GS Network Timing Synchronization Status and Reporting vivo discussion Rel-18 TRS\_URLLC-NR-Core Late

[R2-2302761](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302761.zip) RAN2 Impact of timing synchronization status information delivery in CONNECTED mode CATT discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2302762](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302762.zip) Impact of timing synchronization status and reporting in IDLE/INACTIVE mode CATT discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2302833](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302833.zip) Considerations on BAT offset ZTE Corporation, Sanechips discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2302834](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302834.zip) Considerations on time synchronization status and reporting ZTE Corporation, Sanechips discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2302932](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302932.zip) Timing Synchronization Reporting Qualcomm Incorporated discussion Rel-18

[R2-2302933](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302933.zip) UL BAT Reporting and Adjustment Qualcomm Incorporated discussion Rel-18

[R2-2303382](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303382.zip) Views on RAN feedback for burst sending time adjustment Apple discussion Rel-18

[R2-2303723](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303723.zip) Discussion on NR Timing Resiliency Ericsson discussion Rel-18

[R2-2303733](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303733.zip) RAN2 impact of DL and UL scheduling adaptation and BAT offset deviation Ericsson discussion Rel-18

[R2-2303777](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303777.zip) Discussion on timing resiliency and URLLC enhancements China Telecom discussion

[R2-2303816](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303816.zip) 5GS network timing synchronization status and reporting Intel Corporation discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2303817](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303817.zip) RAN reactive UL feedback for burst sending time adjustment Intel Corporation discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2303865](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303865.zip) 5GS network timing synchronization status and reporting Nokia, Nokia Shanghai Bell discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2303866](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303866.zip) Reactive RAN feedback for upstream scheduling Nokia, Nokia Shanghai Bell discussion Rel-18 TRS\_URLLC-NR-Core

[R2-2304152](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304152.zip) Delivery of 5G Clock Quality Information Samsung discussion Rel-18

[R2-2304153](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304153.zip) Adaptive Upstream Scheduling Based on RAN Feedback Samsung discussion Rel-18

## 7.24 NR TEI18

Specific items may be allocated to a breakout session for treatment.

Time budget: 1 TU

### 7.24.1 TEI proposals by Other Groups

Items initiated by other groups that is/has been communicated by LS, where the other group indicate this is TEI18. (Specific other-group-WIs should use the R18 Other Agenda Item below).

SR Periodicity

[R2-2302411](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302411.zip) LS on SR periodicity (R1-2302187; contact: Ericsson) RAN1 LS in Rel-18 TEI18 To:RAN2

- HW wonder what is the issue with SR config, why is this decided in R1 and not in R2. HW think the existing config may be enough.

- Ericsson think R1 has identified that these are beneficial, and think the impact is only in the RRC and UE cap TS.

* LS is Noted, RAN2 intends implement the requested change.

[R2-2302889](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302889.zip) CR to add SR periodicities for 30 and 120 kHz subcarrier spacing [SR-Periods-30-120-kHz] Ericsson CR Rel-18 38.331 17.4.0 3971 - B TEI18

[R2-2302894](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302894.zip) CR to add SR periodicities for 30 and 120 kHz subcarrier spacing [SR-Periods-30-120-kHz] Ericsson CR Rel-18 38.306 17.4.0 0891 - B TEI18

- Nokia think Cat B is not correct, should be Cat C.

- Xiaomi wonder if this is only for TDD, and think the UE cap is needed.. ZTE think that we can indicate TDD only in the TDD FDD diff conlumn in the UE cap CR.

- CATT are in general ok but would like to check the CRs.

* CR are postponed (to allow more checking)

1-symbol PRS

Handled Handled in the Positioning parallel session (Nathan)

[R2-2302413](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302413.zip) LS on 1-symbol PRS (R1-2302201; contact: ZTE) RAN1 LS in Rel-18 TEI18 To:RAN2, RAN3 Cc:RAN4

[R2-2303498](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303498.zip) Correction on 1-symbol PRS in 38.331 ZTE Corporation CR Rel-18 38.331 17.4.0 4014 - B NR\_pos\_enh2, TEI18

moved from 7.25

[R2-2303499](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303499.zip) Correction on 1-symbol PRS in 37.355 ZTE Corporation CR Rel-18 37.355 17.4.0 0437 - B TEI18, NR\_pos\_enh2

moved from 7.25

[R2-2303500](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303500.zip) [Draft] Reply LS on 1-symbol PRS ZTE Corporation LS out Rel-18 TEI18, NR\_pos\_enh2 To:RAN1 Cc:RAN3

moved from 7.25

### 7.24.2 TEI proposals by RAN2

Items initiated in RAN2.

Tdoc limitation: 1 tdoc for non-previously-agreed TEI proposals.

Agreed or ongoing proposals

Redcap MBS CFR

[R2-2302495](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302495.zip) Discusssion on impact of MBS Broadcast CFR for Redcap UE NEC discussion TEI18

[R2-2304061](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304061.zip) RedCap CFR for MBS Broadcast Nokia, Nokia Shanghai Bell discussion Rel-18 TEI18

[R2-2303972](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303972.zip) Discussion on the seperated CFR for Redcap UE Huawei, CBN, HiSilicon discussion Rel-18 TEI18

* 3 tdocs Noted

DISCUSSION on the 3 papers

- Chair wonder if multiple MCCH has more impact? E.g. impact to change notifications etc?

- QC think SA2 impact is covered for Rel-18, but think the indication is a chicken and egg issue. Nokia think we should have the indication to RAN to direct the scheduling.

- NEC has same understanding as Nokia, that we should check with SA2.

- Ericsson think RAN can configure CFR based on BW requirements (no indication) or can configure based on service indication.

- Nokia think R1 impact may be needed if we have a common MCCH, and the issue whether CFRs are overlapping of non-overlapping, think impact also based on single/multiple MCCH.

- QC think that if we allow many variants there may be impact, but the intention was to keep simple. Think the new CR need to be BW compatible in any case, so there should be zero impact to non-redcap UEs.

- CATT think that if common MCCH is used then it need to be transmitted on the CFR for non-RadCap UEs, and think overlap of CFRs would bring scheduling issues, think if overlap is needed/allowed then RAN1 is impacted. QC think we should not overlap.

- HW think we anyway need to discuss at next meeting whether we need separate MCCH or not. Think Rel-17 allows different MCCHs. QC confirms that the intention was to have separate MCCHs.

* Chair: Can discuss further next meeting based on proponents CR

Correction type proposals

[R2-2303492](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303492.zip) Support of releasing cross-carrier scheduling configuration Huawei, HiSilicon, Telecom Italia, China Unicom discussion Rel-18 TEI18

DISCUSSION

- OPPO is ok with the intention, but have a question for the solution. Wonder if it would be better if we just use a new setup/release instead of the old signalling.

- Samsung also ok with intention, think it is sufficient to add some UE behaviour, e.g. a note. Can leave details FFS.

- MTK also support P1, support intention, prefer new signalling and new capability.

- vivo wonder how it can work without nerw signalling, can be different understanding between UE and network.

- ZTE wonder if UE cannot work with Alt2. HW think that this may cause issues for UEs and for UE capability non-wanted dependencies, would need to add pre-req.

* There is interest to resolve this issue, can discuss further the exact solution.

New proposals

[R2-2302775](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302775.zip) Signalling overhead reduction of DC location reporting signalling [DCLoc-Overhead] Nokia, Nokia Shanghai Bell discussion Rel-18 TEI18

[R2-2303424](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303424.zip) RRC segment transmission continuity Apple discussion Rel-18 TEI18, NR\_newRAT-Core

[R2-2303515](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303515.zip) Discussion on the issue of unpredictable measurement sequence for inter-frequency measurement reporting CMCC discussion Rel-18 TEI18

[R2-2303718](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303718.zip) SDT Enhancements for Configured grants [SDT-Enh-CG] Ericsson, Intel Corporation, ZTE Corporation discussion Rel-18 38.331 TEI18

Positioning

Handled in the Positioning parallel session (Nathan)

GNSS LON/NLOS assistance

[R2-2303163](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303163.zip) GNSS LOS/NLOS assistance information-Follow up Vodafone, Spirent, Ericsson, Telecom Italia discussion Rel-18

[R2-2303196](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303196.zip) GNSS LOS/NLOS assistance information Vodafone, Spirent, Ericsson, Telecom Italia CR Rel-18 37.355 17.4.0 0436 - B TEI18

[R2-2303200](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303200.zip) GNSS LOS/NLOS posSIB broadcast assistance information Vodafone, Spirent, Ericsson, Telecom Italia CR Rel-18 38.331 17.4.0 3998 - B TEI18

[R2-2303206](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303206.zip) GNSS LOS/NLOS posSIB broadcast assistance information Vodafone, Spirent, Ericsson, Telecom Italia CR Rel-18 36.331 17.4.0 4923 - B TEI18

Yaw and APC

[R2-2303033](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303033.zip) Updated proposal on Yaw and APC extensions Swift Navigation discussion Rel-18

Pos SIB availability to Remote UEs

[R2-2303559](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303559.zip) Positioning of remote UEs MediaTek Inc., CATT, Huawei, HiSilicon, Qualcomm Incorporated, Xiaomi, Intel Corporation, vivo discussion Rel-18 TEI18

[R2-2303123](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303123.zip) Discussion on how to support posSIB(s) forwarding Xiaomi discussion

[R2-2303702](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303702.zip) Relay based Positioning for emergency calls and posSIB forwarding Ericsson discussion Rel-18

Local coordinates

[R2-2303698](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303698.zip) Support of Local Cartesian Coordinates in LPP Qualcomm Incorporated discussion

Pos QoS

[R2-2304007](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304007.zip) Introduction of multiple QoS in positioning for latency reduction Samsung R&D Institute UK discussion

## 7.25 R18 Other

Specific items may be allocated to a breakout session for treatment.

Impacts from Other RAN WGs and TSGs that has no separate TU budget in RAN2. LS ins for Rel-18 specific WIs/SIs that has no RAN WI.

Time budget: 2 TU

Tdoc Limitation: -

### 7.25.1 RAN4 led items

LS in No Action

[R2-2302434](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302434.zip) LS on the UE SRS IL imbalance issue (R4-2303519; contact: Huawei) RAN4 LS in Rel-18 NR\_ENDC\_RF\_FR1\_enh2 To:RAN1 Cc:RAN2

* [000] Noted

Meas Gap Enh 2

Online first

[R2-2302431](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302431.zip) LS on measurements without gap (R4-2303306; contact: Intel, CATT) RAN4 LS in Rel-18 NR\_MG\_enh2-Core To:RAN2

Moved from 7.25.3

* Noted

[R2-2303103](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303103.zip) Discussion on NeedForGaps with interruption Huawei, HiSilicon discussion Rel-18 NR\_MG\_enh2-Core

[R2-2302776](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302776.zip) Discussion on RAN4 LS for Rel-18 measurement gaps Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MG\_enh2-Core

* Both Noted

DISCUSSION

- MTK think both approaches work (Nokia vs Huawei). Prefers the simpler HW approach but ok in general. HW approach is reflected in the proposed CRs below.

- Nokia think that the issue with legacy is semantical UE indicate gaps when it need interruption.

- MTK and Nokia both think there is a difference of opinion how to interpret the R16 behaviour (and they have different opinions). There is no intention to resolve that part in R2.

- Apple prefer R16 extension, seems to work, but also agrees with Nokias explanation.

- ZTE wonder what is meant by R16 ext, isn’t that the Nokia proposal?

- CATT think we need no update of R16 behaviour ..

- Chair: There seems to be confusion on the detailed level what is proposed.

* In the current R2 discussion/CRs there is no intention to change legacy definitions or behviour (It is understood that there may be difference of opinions).

Chair: go offline (MTK)

* [AT121bis-e][023][MGE] Measurements without gap with interruption (Mediatek)

Scope: Converge on solution. If possible, revise draft CRs to be agreeable. If needed produce a reply LS (intel, Catt).

Intended outcome: Report, endorsed CRs (if possible), approved LS out - if needed

Deadline: EOM (CB online only if needed, otherwise offline only).

[R2-2303071](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303071.zip) Consideration on measurement without gap CATT discussion Rel-18 NR\_MG\_enh2-Core

[R2-2303294](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303294.zip) Discussion on R18 no gap with interruption ZTE Corporation, Sanechips discussion Rel-18 NR\_MG\_enh2-Core

[R2-2303400](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303400.zip) Discussion on Rel-18 gap enhancement Apple discussion Rel-18 NR\_MG\_enh2-Core

[R2-2303612](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303612.zip) Introduction of measurements without gap with interruption MediaTek Inc. draftCR Rel-18 36.331 17.4.0 B NR\_MG\_enh2-Core

[R2-2303613](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303613.zip) Introduction of measurements without gap with interruption MediaTek Inc. draftCR Rel-18 36.306 17.4.0 B NR\_MG\_enh2-Core

[R2-2303614](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303614.zip) Introduction of measurements without gap with interruption MediaTek Inc. draftCR Rel-18 38.331 17.4.0 B NR\_MG\_enh2-Core

[R2-2303615](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303615.zip) Introduction of measurements without gap with interruption MediaTek Inc. draftCR Rel-18 38.306 17.4.0 B NR\_MG\_enh2-Core

NCD SSB for non-RedCap UE

Treat Online

[R2-2303840](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303840.zip) RRM measurement on NCD-SSB for non-RedCap UE vivo, Guangdong Genius discussion Rel-18

DISCUSSION

- Ericsson wonder about impact in RAN4. Ericsson understands the impact in RAN4 is the reason why this was not included.

- Apple agrees with Ericsson, and think this was difficult in TSG RAN.

- ZTE understands the concern. Think the whole NCD SSB function shall be included. Think this may be discussed in R1 and R2 can wait, think it impacts DL synch and QCL

- QC have similar opinion as others, that RAN2 shouldn’t decide on this.

- vivo think this was discussed in R4 this week, but R4 think discussion at plenary is needed.

- Xiaomi think this part is needed to make this work.

- vivo think the consequence of not agreeing is that we will have gaps etc.

- ZTE think we have intra-freq gaps, but of course it will be more efficient to reuse the serving cell MO

- Chair Comment: From R2 TS impact point of view (protocol point of view) the impact to introduce the proposed RRM measurements support seems limited and may be ok, but concerns are voiced on impact in other groups, and a number of companies think that thus the decision should not be in R2 scope.

* Noted

[R2-2303841](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303841.zip) Correction on 38.300 for BWP Wor vivo, Guangdong Genius draftCR Rel-18 38.300 17.4.0 B

[R2-2303842](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303842.zip) Correction on 38.331for BWP Wor vivo, Guangdong Genius draftCR Rel-18 38.331 17.4.0 B

[R2-2304141](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304141.zip) Support for BWP operation without restriction ZTE Corporation, Sanechips CR Rel-18 38.300 17.4.0 0665 - B

[R2-2304142](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304142.zip) Support for BWP operation without restriction ZTE Corporation, Sanechips CR Rel-18 38.331 17.4.0 4057 - B

* CRs postponed

Air to Ground

Online first

[R2-2302438](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302438.zip) LS on applicability of SIB19 for NR ATG (R4-2303684; contact: Qualcomm) RAN4 LS in Rel-18 NR\_ATG-Core To:RAN2

* Noted

[R2-2303045](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303045.zip) Discussion on the support of Air to ground access Qualcomm Incorporated discussion Rel-18 NR\_ATG-Core

[R2-2304088](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304088.zip) Discussion on applicability of SIB19 for NR ATG CMCC discussion Rel-18

* Both noted

DISCUSSION

- Ericsson think SIB19 has many other things not needed for this case, and if using SIB19 for this, a lot of explanations in the RRC TS is needed. Think that the required IE is very simple and can even be put into another SIB. QC think all info in SIB19 is optional.

- Chair asks why the RAN4 request is so specific, QC think that the purpose is to reduce R2 work, think that also cell specific offset is needed.

- OPPO think only Ephemeris is needed.

- Huawei think BS is on the ground and we only need the location, are worried about security aspects on. Would like to postpone.

- intel is ok to have BS location in SIB19 or other SIB. Think it could be per BS.

- QC think that Ncell info may be needed, but this is under discussion.

- CMCC also think that BS location may be sensitive, would like to ask R4 about the required accuracy.

- Chair think that RAN2 can do this work as alignment work, without TU allocation - the magnitude of the work seems ok (FFS on the security concerns).

* RAN2 will address this and intends to find a solution for Rel-18 (SIB19 or other SIB etc).

[R2-2303046](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303046.zip) [Draft] Reply LS on applicability of SIB19 for NR ATG Qualcomm Incorporated LS out Rel-18 NR\_ATG-Core To:RAN4

- Ask about required location accuracy.

* offline
* [AT121bis-e][022][ATG] Reply LS on applicability of SIB19 for NR ATG (Qualcomm)

Scope: Reply LS to RAN4

Intended outcome: Approved LS out (offline only, no online CB).

Deadline: EOM

### 7.25.2 RAN1 led items

E.g. MC enhancements, DSS

MCE

Treat online first

LS in

[R2-2302433](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302433.zip) LS on Rel-18 Multi-carrier enhancement for NR (R4-2303507; contact: China Telecom) RAN4 LS in Rel-18 NR\_MC\_enh-Core To:RAN1, RAN2

Already taken into account in the email discussion below. Propose Noted.

Incoming Email discussion

[R2-2302730](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302730.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302730.zip) Summary of [Post121][045][MCE] UL TX Switching (Docomo) NTT DOCOMO INC. discussion Rel-18

DISCUSSION

P4

- Huawei think the priority list can be optional, but this can be discussed in CR drafting, and this information can be merged to/derived from an existing list, would like to continue discuss this. Docomo agree this can be discussed oin CR discussion

3

- QC agrees with ZTE analysis that there is no ambiguity. UE can rely on no of ports in DCI and RRC config. Docomo think the R1 agreement begins with “For Dual UL …” and think QC proposes to ignore the For-dual-UL-part

- ZTE think that 3-1 is just the network restriction and is ok.

- MTK support (and others) 3-2 O1

P1: postpone and wait for RAN4

* P2: RAN2 reuse *uplinkTxSwitching-DualUL-TxState-r17* to indicate the state of Tx chains for dualUL mode.
* P4: RAN2 introduce an optional list of bands in CellGroupConfig, in which the priority is configured by the order (or similar equivalent change, TBD CR disc).
* P5: RAN2 introduce a per-band-pair report of bands that can be transmitted while the other Tx chain is switching across that band pair. Absence of this field means there is interruption in all bands during the switching.
* P3-1: R2 assumes that the network ensures the UE supports dualUL for a band and its associated band (config restriction)
* we send an LS to RAN1, ask to confirm RAN2 understanding (below)

P3-2: Baseline R2 “understanding” (can be modified and clarified in offline)

When the UE is indicated to switch from two bands to one different band (e.g. A+B => C), follow below logic when determine the switched Tx:

- If network indicates 1port transmission on band C:

--- If uplinkTxSwitching-DualUL-TxState is not configured or is set to twoT:

----- Switch 2Tx chains to band C;

--- otherwise (i.e. uplinkTxSwitching-DualUL-TxState is set to oneT), if the associated band is configured:

----- Switch 1Tx chain to band C and switch another Tx chain to associated band.

- if network indicates 2port transmission on band C:

--- Switch 2Tx chains to band C

Chair think that the pre-assumptions can be clarified further if needed (so that the context is clear), e.g. assumptions on config, if needed.

P6 can attempt to progress offline

* [AT121bis-e][020][MCE] LS out UL TX Switching (NTT Docomo)

Scope: LS out to RAN1 according to Agreements. Can add related questions if agreeable,

Intended outcome: Agreeable LS out

Deadline: CB W2 Tuesday

Online CB DISCUSSION for [020]

- The baseline understanding was somewhat updated during offline:

* Baseline R2 understanding:

When the UE is indicated to switch from two bands to one different band (e.g. A+B => C), follow below logic when determine the switched Tx:

- If network indicates 1port transmission on band C,

and *uplinkTxSwitching-DualUL-TxState* is set to *oneT*, and the associated band is configured to band C:

---- Switch 1Tx chain to band C and switch another Tx chain to associated band;

- Else if network indicates 1port transmission on band C, but *uplinkTxSwitching-DualUL-TxState* is not configured or is set to *twoT*, or associated band is not configured to band C:

---- Switching 2Tx chains to band C.

R2-2304472 LS on RRC configuration of Tx state in Rel-18 UL Tx switching LS out RAN2

* Approved (this is the final version)
* [AT121bis-e][021][MCE] UL TX Switching (NTT Docomo)

Scope: Attempt progress on P6 from R2-2302730

Intended outcome: Report with agreeable proposal and/or other way forwards.

Deadline: CB W2 Tuesday

R2-2304473 Summary of [AT121bis-e][021][MCE] UL TX Switching (NTT Docomo) NTT Docomo, Inc.

Online CB DISCUSSION for [021]

P1

- CATT think the second part is redundant, think it should be FFS .. think both are optional, and in some cases they don’t need to be reported, as R16 R17 cap can be reused in some cases.

- Apple could be ok with CATT proposal to reuse.

- ZTE think the second sentence means no optimization, think the current proposal is good. Ericsson agrees with ZTE, and think it is easier for the network.

- OPPO think if we follow CATT then there may be cases that cannot be discriminated, i.e. whether UE support R18 switching or whether the R18 switching period is the same as for R1617 switching period.

- Huawei wonder if the UE support 2T2T whether the UE also need to indicate 1T2T. Want to look further into this. Think R1 R4 TS may not use both values even if signalled.

- Docomo think the email discussion had enough time so 2a should be ok.

- CATT think UE doesn’t need to report 1T2T switching period capability. Would like to have a condition that takes into account cases when same BC is applied for R1617 TX switching as well as R18 TX switching.

- vivo thin that we can discuss this dependency later.

- ZTE think we may need to send LS to RAN1.

- Apple would be good with 1 switching period.

- Huawei think R1 has decided that all band-pairs in a BC would support UL TX switching.

- Chair think companies have different opinions on decision status in other groups, and the dependency on / relation to UE caps for previous releases should be better ironed out in detail.

* In support of RAN4 agreement, RAN2 intend to introduce support for two per-band-pair UE capabilities, a length of a switching period, for 1Tx-2Tx switching (like Rel-16) and that for 2Tx-2Tx switching (like Rel-17).
* FFS if the UE supports 1T-2T, whether the UE need to report this capability for every case (or whether it could/should be inferred from R1617 reporting).
* FFS if the absence of 2Tx-2Tx per-band-pair UE capability (switching period) means the UE does not support 2Tx-2Tx UL Tx switching.

*Chair Comment: Signalling should be clear and logically coherent (important). Overhead optimization is less important, but we also try to avoid logically redundant signalling. Chair observation: On-line, all companies seem now to be on the same page.*

*Chair: WI is to close. Should have reasonable CRs by next meeting. Should attempt to resolve as much as we can.*

*Another LS:* *Ask Questions to RAN1 and/or RAN4 on all aspects required to resolve FFSes above (and potential additional uncertainty fund during discussion if any), can also aske to verify the agreement if needed.*

*Continue offline, until Friday (short post discussion).*

* [Post121bis-e][030][MCE] LS out 2 UL TX Switching (NTT Docomo)

Scope: Ask Questions to RAN1 and/or RAN4 on all aspects required to resolve FFS’es related to outcome of and discussion on R2-2304473, and potential additional uncertainty found during this discussion if any. Can also ask to verify the agreement if needed.

Intended outcome: Approved LS out

Deadline: Short (can start before EOM).

[R2-2303293](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303293.zip) Discussion on Rel-18 UL Tx switching capability ZTE Corporation, Sanechips discussion Rel-18 NR\_MC\_enh-Core

* Noted

CRs

[R2-2303484](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303484.zip) Introduction of Rel-18 UL Tx switching enhancements Huawei, HiSilicon, NTT DOCOMO INC. draftCR Rel-18 38.331 17.4.0 C NR\_MC\_enh-Core

[R2-2303485](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303485.zip) Introduction of Rel-18 UL Tx switching enhancements Huawei, HiSilicon, NTT DOCOMO INC. draftCR Rel-18 38.306 17.4.0 C NR\_MC\_enh-Core

Continued discussion

[R2-2303063](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303063.zip) Current status of issues on Rel-18 UL Tx switching NTT DOCOMO INC. discussion Rel-18

[R2-2302578](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302578.zip) Discussion on R18 UL Tx Switching OPPO discussion Rel-18 NR\_MC\_enh-Core

[R2-2302714](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302714.zip) Discussion on Rel-18 UL Tx Switching CATT discussion Rel-18 NR\_MC\_enh

* For Rel-18 Tx switching, wait for more input from RAN4 on whether to introduce a separate capability for UE transmitting on the Tx chain switched first during the time gap of different switching periods.

[R2-2303399](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303399.zip) UL Tx switching scenarios and 1T-1T band pairs Apple discussion Rel-18 NR\_MC\_enh-Core

[R2-2303664](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303664.zip) On RAN2 aspects for UL TX switching Rel-18 Ericsson discussion

[R2-2303825](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303825.zip) discussion on UE capability and RRC configuration for UL tx switching vivo discussion Rel-18

### 7.25.3 Other

RAN3, SA2, SA3, CT1 led items and others, e.g. eNPN

LS in No Action

[R2-2302462](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302462.zip) LS on 3GPP work on Energy Efficiency (S5-232903; contact: Huawei) SA5 LS in Rel-18 EE5GPLUS\_Ph2 To:SA, RAN, CT Cc:SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4, CT1, CT3, CT4

* [000] Noted

[R2-2302420](file:///C:\\Users\\mtk65284\\Documents\\3GPP\\tsg_ran\\WG2_RL2\\TSGR2_121bis-e\\Docs\\R2-2302420.zip" \o "C:Usersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_121bis-eDocsR2-2302420.zip) Reply LS on Support of network slices which have area of service not matching deployed tracking areas (R3-230899; contact: Nokia) RAN3 LS in Rel-18 eNS\_Ph3 To:SA2 Cc:RAN2

* [000] Noted

[R2-2302421](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302421.zip) Reply LS on Partially allowed/rejected NSSAI (R3-230923; Contact: Ericsson) RAN3 LS in Rel-18 eNS\_Ph3 To:SA2 Cc:RAN2

* [000] Noted

eNPN

Treat Online first

[R2-2302419](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302419.zip) Reply LS on RAN impact for NPN enhancement in Rel-18 (R3-230813; contact: Qualcomm) RAN3 LS in Rel-18 eNPN\_Ph2 To:SA2 Cc:RAN2

* noted

[R2-2302447](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302447.zip) Reply LS on Progress and open issues for NPN enhancements in Rel-18 (S2-2303689; contact: Qualcomm) SA2 LS in Rel-18 FS\_eNPN\_Ph2, eNPN\_Ph2 To:SA3 Cc:SA1, CT1, CT3, CT4, RAN2, RAN3

* noted

[R2-2304143](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304143.zip) Discussion on further enhancement of NPN in R18 China Telecom discussion Rel-18

* noted

[R2-2303812](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303812.zip) (draft CR to TS 38.300) On introduction of R18 eNPN China Telecom,ZTE Corporation, Sanechips, CATT draftCR Rel-18 38.300 17.4.0 B

- CT suggest to wait for R3. Think whether changes are needed for NR-DC can be discussed in R2

* Postpone stage-2 impacts (wait for R3)

[R2-2303813](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303813.zip) Draft CR to TS 38.304 on introduction of R18 eNPN China Telecom, ZTE Corporation, Sanechips, CATT, Huawei, HiSilicon draftCR Rel-18 38.304 17.4.0 B

- CT think this is similar to other proposals.

* Postpone (can progress next meeting)

[R2-2304119](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304119.zip) Discussion and text proposal for NPN Rel-18 Ericsson discussion Rel-18

- Ericsson agrees there are only minor differences. And email discussion may not be needed.

* Noted

DISCUSSION

- Huawei think there is some divergence for RRC impact. Need to decide on RAN notification area impact. Think, there shall be no impact as eq SNPN is not supported for registration area. CATT agrees, ZTE agrees.

- HW think there is another impact to RRC, which is also mentioned in the intel paper. Intel agrees, it is about IAB barring.

- Nokia think the intel proposals are a good capture of the CRs.

- ZTE agrees we need to discuss for NR DC. Chair wonder if not R3 should decide. ZTE think R3 discussed it.

- HW think the text for NR-DC was introduced by R3.

*Chair: can think about whether to address the NR-DC stage-2 text in RAN2*

[R2-2302913](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302913.zip) RAN2 impact on Rel-18 NPN enhancement Intel Corporation discussion Rel-18

- Lenovo asks about 306 and UE caps.

- Intel think this can be addressed later

* Noted

RAN2 assumes that the following need to be addressed

* For TS 38.304, the impact to RAN2 is on the following to extend equivalent PLMN to also SNPN:

Equivalent SNPN list definition

NAS interactions with AS for equivalent SNPN

Suitable cell definition while operating in SNPN access mode

Suitability check

Intra-frequency Reselection Indication

* For TS 38.331, to extend the cell barring for IAB to also if the selected SNPN is equivalent SNPN.

[R2-2302999](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2302999.zip) RAN2 Impact on Further Enhancement NPN CATT discussion Rel-18

[R2-2303104](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303104.zip) Discussion on RAN impact for NPN enhancement in Rel-18 Huawei, HiSilicon discussion Rel-18

[R2-2303295](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303295.zip) RAN2 impacts on R18 eNPN ZTE Corporation, Sanechips discussion Rel-18

[R2-2303807](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303807.zip) General considerations on potential RAN2 works for NPN enhancement in Rel-18 Samsung Electronics Austria discussion Rel-18

[R2-2303905](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2303905.zip) Discussion on further enhancement of private network support for NG-RAN vivo discussion Rel-18

NTN Self-evaluation SI

Treated in NTN parallel session (Sergio)

[R2-2304184](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_121bis-e\Docs\R2-2304184.zip) SI work plan for Study on self-evaluation towards the IMT-2020 submission of the 3GPP Satellite Radio Interface Technology Ericsson discussion Rel-18 FS\_IMT2020\_SAT\_eval Late