3GPP TSG-RAN WG2 Meeting #118-e R2-22xxxxx

Online, 9-20 May 2022

Source: Session Chair (MediaTek)

Title: Report of session on positioning and sidelink relay

# Status of At-Meeting Email Discussions

This subclause is not an Agenda Item. It contains a running summary of the email discussions assigned to take place during the meeting weeks. This section will be moved to an appendix in the final version of the report.

* [AT118-e][600][POS][Relay] Organisational Nathan – Positioning/Relay (MediaTek)

 Scope: Organisational discussions and announcements, as needed throughout the meeting weeks.

 Intended outcome: Well-informed participants

 Deadline: Friday 2022-05-20 1000 UTC

Relay rapporteur CRs:

* [AT118-e][611][Relay] 38331 relay CR (Huawei)

 Scope: Update the rapporteur CR (R2-2205986), incorporating decisions of this meeting. Phase 1 attempts to resolve the main technical issues; phase 2 produces an initial draft of the decisions (expectation is that review of this CR may be extended to post-meeting).

 Intended outcome: CR agreeable as a baseline for final review

 Deadline: Phase 1 Friday 2022-05-13 1800 UTC, Phase 2 Wednesday 2022-05-18 0400 UTC

* [AT118-e][612][Relay] 38300 relay CR (MediaTek)

 Scope: Update the rapporteur CR (R2-2204584), incorporating decisions of this meeting and taking into account related proposals in the related tdocs: R2-2204991, R2-2204795, R2-2204990, R2-2205432, R2-2205781.

 Intended outcome: Agreed CR (without CB if possible)

 Deadline: Wednesday 2022-05-18 0400 UTC

* [AT118-e][613][Relay] 38304 relay CR (Ericsson)

 Scope: Develop a rapporteur CR, incorporating decisions of this meeting and taking into account related proposals in the related tdocs: R2-2205905, R2-2204992.

 Intended outcome: Agreed CR (without CB if possible)

 Deadline: Wednesday 2022-05-18 0400 UTC

* [AT118-e][614][Relay] 38306 relay CR (Qualcomm)

 Scope: Update the rapporteur CR (R2-2205880), incorporating decisions of this meeting and taking into account related proposals in the related tdocs: R2-2204637, R2-2204638, R2-2204770, R2-2205988.

 Intended outcome: Agreed CR (without CB if possible)

 Deadline: Phase 1 to agree on proposals: Friday 2022-05-13 1800 UTC; Phase 2 to agree CR Wednesday 2022-05-18 0400 UTC

* [AT118-e][615][Relay] 38321 relay CR (Apple)

 Scope: Update the rapporteur CR (R2-2205648), incorporating decisions of this meeting and taking into account related proposals in the related tdocs: R2-2204766, R2-2204767, R2-2204768, R2-2204769, R2-2205114, R2-2205610, R2-2204773, R2-2204993 (handling of R2-2205610 and R2-2204768 to be confirmed online Monday 2022-05-09).

 Intended outcome: Agreeable CR

 Deadline: Wednesday 2022-05-18 0400 UTC

* [AT118-e][616][Relay] 38322 and 38323 relay CRs (Samsung)

 Scope: Update the rapporteur CRs (R2-2205607 and R2-2205608), incorporating decisions of this meeting and taking into account related proposals in the related tdocs: R2-2205963, R2-2205611.

 Intended outcome: Agreed CRs (without CB if possible)

 Deadline: Wednesday 2022-05-18 0400 UTC

* [AT118-e][617][Relay] 38351 relay CR (OPPO)

 Scope: Update the rapporteur CR (R2-2204632), incorporating decisions of this meeting and taking into account related proposals in the related tdocs: R2-2204796, R2-2204797, R2-2205133, R2-2205431.

 Intended outcome: Agreed CR (without CB if possible)

 Deadline: Wednesday 2022-05-18 0400 UTC

Relay other discussions:

* [AT118-e][618][Relay] 37985 relay TP (ZTE)

 Scope: Evaluate the TP in R2-2204800 and produce an endorsable version.

 Intended outcome: Endorsed TP and approved LS to RAN1 (without CBs)

 Deadline: Wednesday 2022-05-18 0400 UTC

* [AT118-e][619][Relay] LS on SDU type in PDCP (ZTE)

 Scope: Discuss the LS in R2-2204447 and related contributions (R2-2204633, R2-2204771, R2-2204772, R2-2204798, R2-2204799). Phase 1 should determine a way forward and a recommendation to be taken into account in the PDCP rapporteur CR; Phase 2 is to draft and approve the LS.

 Intended outcome: Approved LS (without CB)

 Deadline: Phase 1 Friday 2022-05-13 1800 UTC, Phase 2 Wednesday 2022-05-18 0400 UTC

* [AT118-e][620][Relay] System information issues (Qualcomm)

 Scope: Discuss the system information proposals from agenda item 6.7.2.1 (R2-2204585, R2-2204586, R2-2204674, R2-2204886, R2-2205064, R2-2205065, R2-2205319, R2-2205609) and determine handling of the technical issues.

 Intended outcome: Report to Monday CB session

 Deadline: Friday 2022-05-13 1800 UTC

* [AT118-e][621][Relay] Initial comments on discovery and (re)selection (vivo)

 Scope: Collect company views on the issues raised in R2-2206056.

 Intended outcome: Report to Wednesday session

 Deadline: Tuesday 2022-05-10 1800 UTC

Positioning rapporteur CRs:

* [AT118-e][622][POS] 38305 positioning CR (Intel)

 Scope: Review and update the rapporteur CR (R2-2204931), also taking into account proposals in the stage 2 related tdocs: R2-2205655, R2-2204690, R2-2205017, R2-2205488, R2-2205805, stage 2 proposals from AI 6.11.2.1. Also check the CR in R2-2204689 to 36.305. Discussion should coordinate with the handling of agenda item summaries.

 Intended outcome: Agreed CRs to 38.305 and 36.305 (without CBs if possible)

 Deadline: Tuesday 2022-05-17 1800 UTC

* [AT118-e][623][POS] 38331 positioning CR (Ericsson)

 Scope: Review and update the rapporteur CR (R2-2205859), taking into account decisions of this meeting. Discussion should coordinate with the handling of agenda item summaries.

 Intended outcome: Agreeable CR

 Deadline: Tuesday 2022-05-17 1800 UTC

* [AT118-e][624][POS] 37355 positioning CR (Qualcomm)

 Scope: Review and update the rapporteur CR (R2-2205829), taking into account decisions of this meeting. Discussion should coordinate with the handling of agenda item summaries.

 Intended outcome: Agreeable CR

 Deadline: Tuesday 2022-05-17 1800 UTC

* [AT118-e][625][POS] 38321 positioning CR (Huawei)

 Scope: Develop a rapporteur CR, taking into account decisions of this meeting. Discussion should coordinate with the handling of agenda item summaries.

 Intended outcome: Agreeable CR

 Deadline: Tuesday 2022-05-17 1800 UTC

Positioning other discussions:

* [AT118-e][626][POS] LS on TEG framework (CATT)

 Scope: Handle the LS in R2-2204478, determine a way forward, and draft a reply.

 Intended outcome: Approved LS (without CB if possible)

 Deadline: Friday 2022-05-13 1800 UTC

* [AT118-e][627][POS] Positioning UE capabilities (Intel)

 Scope: Discuss proposals on UE capabilities, taking into account the related tdocs: R2-2204933, R2-2205009, R2-2206330.

 Intended outcome: Endorsed TPs to some or all of 37.355, 38.331, 38.306, 38.822 (without CBs if possible)

 Deadline: Tuesday 2022-05-17 1800 UTC

* [AT118-e][628][TEI17] NMEA GGA string for HA-GNSS reporting (Ericsson)

 Scope: Discuss the contribution in R2-2205845 and determine if a CR is agreeable.

 Intended outcome: Agreed CR (without CB if possible)

 Deadline: Tuesday 2022-05-17 1800 UTC

* [AT118-e][629][POS] Rel-16 positioning CRs (Ericsson)

 Scope: Discuss the following contributions under agenda item 5.3 and determine handling: R2-2204694, R2-2204695, R2-2205801, R2-2205802, R2-2205803.

 Intended outcome: Agreed CRs (without CB)

 Deadline: Tuesday 2022-05-17 1800 UTC

* [AT118-e][630][POS] LS on DL-AoD signalling load (Ericsson)

 Scope: Discuss the concern on signalling load raised in R2-2204491 and draft a reply.

 Intended outcome: Approved LS (without CB if possible)

 Deadline: Tuesday 2022-05-17 1800 UTC

* [AT118-e][631][POS] Remaining PropDisc LPP RIL items (Qualcomm)

 Scope: Check company views and discuss the RIL items marked for discussion and not covered by contributions:

* H004: Expected AoA/AoD per TRP or per resource
* N013: Uncertainty mandatory or optional for expected AoA/AoD
* H059: DL-PRS ID in the TEG timestamp
* H024, H032, H033, H046: BIT STRING for UE-based assistance data per method

 Intended outcome: Report to Monday (week 2) session

 Deadline: Friday 2022-05-13 1800 UTC

* [AT118-e][632][Relay] Cell change for remote UE (InterDigital)

 Scope: Discuss P10a and P10b from R2-2206339 and attempt to reach an agreeable conclusion.

 Intended outcome: Report to Monday week 2 session

 Deadline: Friday 2022-05-13 1800 UTC

* [AT118-e][633][Relay] Remaining ASN.1 review issues (Huawei)

 Scope: Discuss the remaining issues from R2-2206077, prioritising the high and medium priority issues.

 Intended outcome: Report to Monday week 2 session

 Deadline: Friday 2022-05-13 1800 UTC

# 4 EUTRA Rel-16 and earlier

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

## 4.4 Positioning corrections Rel-16 and earlier

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

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

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 18 tdocs in total for all sub agenda items.

## 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)

Documents in this agenda item will be handled by email. No web conference is planned for this agenda item, and non-urgent documents may be postponed to next meeting.

Tdoc Limitation: See tdoc limitation for Agenda Item 5

### 5.3.1 General and Stage 2 corrections

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

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2204694](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.305_CR0088_%28Rel-16%29_R2-2204694.docx) Correction on the description of deferred MT-LR CATT CR Rel-16 38.305 16.7.0 0088 - F NR\_pos-Core

[R2-2204695](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.305_CR0089_%28Rel-17%29_R2-2204695.docx) Correction on the description of deferred MT-LR CATT CR Rel-17 38.305 17.0.0 0089 - A NR\_pos-Core

### 5.3.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

### 5.3.3 LPP corrections

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2205801](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205801%20Motivation%20LPP%20Segmentation.docx) Motivation to clarify LPP segmentation purpose Ericsson discussion

[R2-2205802](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205802%20SegCRCatF.docx) Clarification on LPP segmentation Ericsson CR Rel-16 37.355 16.8.0 0334 1 F NR\_pos-Core R2-2203368

[R2-2205803](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205803%20SegCRCatA.docx) Clarification on LPP segmentation Ericsson CR Rel-17 37.355 17.0.0 0346 - A NR\_pos-Core

### 5.3.4 MAC corrections

# 6 NR Rel-17

## 6.7 NR Sidelink relay

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

WI has been declared 100% complete

Tdoc Limitation: 8 tdocs

### 6.7.1 Organizational

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

Incoming LSs other than R2-2204447, with “take into account” actions only

[R2-2204436](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2204436.zip) LS reply on support of RAN sharing and discovery signalling (S2-2201296; contact: Huawei) SA2 LS in Rel-17 To:RAN2 Cc:CT1

[R2-2204440](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2204440.zip) Reply LS on discovery and data associated to different L2 IDs (S2-2201298; contact: vivo) SA2 LS in Rel-17 To:RAN2 Cc:CT1

LS on SDU type and related documents

[R2-2204447](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204447_C1-221835.docx) LS on the SDU type used over user plane for NR PC5 reference point (C1-221835; contact: ZTE) CT1 LS in Rel-17 To:RAN2 Cc:SA2

[R2-2204633](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204633%20-%20Discussion%20on%20CT1%20LS%20on%20SDU%20type%20%28C1-221835%29.docx) Discussion on CT1 LS on SDU type (C1-221835) OPPO discussion Rel-17 NR\_SL\_relay-Core

[R2-2204771](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204771.docx) Issues on the SDU Type Used over User Plane for NR PC5 Reference Point CATT discussion Rel-17 NR\_SL\_relay-Core

[R2-2204772](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204772.docx) Correciton on PDCP for SL relay CATT draftCR Rel-17 38.323 17.0.0 F NR\_SL\_relay-Core

[R2-2204798](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204798%20Discussion%20on%20the%20SDU%20type%20used%20over%20user%20plane%20for%20NR%20PC5%20reference%20point.doc) Discussion on the SDU type used over user plane for NR PC5 reference point ZTE, Sanechips discussion Rel-17 NR\_SL\_relay-Core

[R2-2204799](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204799%20Draft%20reply%20LS%20on%20SDU%20type%20used%20over%20user%20plane%20for%20NR%20PC5%20reference%20point.docx) Draft reply LS on SDU type used over user plane for NR PC5 reference point ZTE, Sanechips LS out Rel-17 NR\_SL\_relay-Core, NR\_SL\_enh To:CT1 Cc:SA2

Rapporteur CRs

[R2-2204584](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204584%20%2038300-%20Correction%20%20for%20SL%20Relay.docx) 38.300 CR Correction for SL Relay MediaTek Inc. CR Rel-17 38.300 17.0.0 0440 - F NR\_SL\_relay-Core

[R2-2204632](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38351_CR0001_%28Rel-17%29_R2-2204632%20-%20Correction%20on%20SRAP%20for%20L2%20U2N%20Relay_V4.3.docx) Correction on SRAP for L2 U2N Relay OPPO CR Rel-17 38.351 17.0.0 0001 - F NR\_SL\_relay-Core

[R2-2205607](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205607%2038.322%20CR0048%20Correction%20on%20RLC%20for%20SL%20Relay.docx) Correction on RLC for SL relay Samsung CR Rel-17 38.322 17.0.0 0048 - F NR\_SL\_relay-Core

[R2-2205608](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205608%2038.323%20CR0093%20Correciton%20on%20PDCP%20for%20SL%20relay.docx) Correction on PDCP for SL relay Samsung CR Rel-17 38.323 17.0.0 0093 - F NR\_SL\_relay-Core

[R2-2205648](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205648_38321_CR1277_%28Rel-17%29_MAC-%20Correction%20for%20SL%20Relay_v2.docx) Correction for sidelink relay in MAC Apple CR Rel-17 38.321 17.0.0 1277 - F NR\_SL\_relay-Core Late

[R2-2205880](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.306_CR0728%28Rel-17%29_R2-2205880%20-%2038.306%20CR%20for%20sidelink%20relay%20capabilities.docx) 38.306 CR for sidelink relay UE capabilities Qualcomm Incorporated CR Rel-17 38.306 17.0.0 0728 - F NR\_SL\_relay-Core

[R2-2205986](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205986_38331_%20CR%233145_%20Rel-17_Miscellaneous%20corrections%20for%20NR%20SL%20Relay.docx) Miscellaneous RRC CR for SL relay Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3145 - F NR\_SL\_relay-Core Late

### 6.7.2 Essential corrections

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

#### 6.7.2.1 Control plane procedures

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

Summary document

[R2-2206339](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206339%20Report%20of%20%5BPre118-e%5D%5B608%5D%5BRelay%5D%20Summary%20of%20AI%206.7.2.1%20on%20control%20plane%20%28Lenovo%29.docx) Summary of [Pre118-e][608][Relay] Summary of AI 6.7.2.1 on CP (Lenovo) Lenovo discussion Rel-17 NR\_SL\_relay-Core

[Easy] Proposal 1: MIB is not required by a U2N Remote UE.

Proposal 1a: Discuss if Proposal 1 needs to be reflected in the RRC specification.

[Easy] Proposal 3: A Remote UE indicates its interests for any SIBs (not SI-messages) to Relay UE via RemoteUEInformationSidelink” and ASN.1 changes are made accordingly to enable this.

[Easy] Proposal 5: No specification changes are required to implement that “upon PC5 RRC connection release, relay UE initiates transmission of the SidelinkUEInformationNR message to release the corresponding sl-PagingIdentity-RemoteUE”.

Discussion:

P1a:

OPPO think we should avoid spec impact where possible, and a NOTE is enough. Apple agree. Samsung think some clarification is needed; no strong view on normative text or a NOTE.

CATT think the NOTE from Samsung’s contribution is OK. Huawei clarify that the current CR already has some clarification that the remote UE is not required to read the MIB; they are OK with Samsung’s proposal for the PC5-RRC part.

vivo think there may be no need for an additional NOTE. MediaTek agree.

P3:

Ericsson think we need to clarify the signalling, and in connected mode on Uu we specified particular SIBs that could be requested; they think it would be simpler to keep the request as per SI message. Chair understands we have inconsistency in the message today between SIs and SIBs. vivo and Apple have the same understanding.

MediaTek indicate that we could align the code points in sl-Requested-SI-List to the SIBs from the SIB-TypeInfo fields.

vivo think aligning on per-SIB is a good clarification. Huawei indicate that the current rapporteur CR is aligned to per-SIB.

Proposal 10a: The remote UE shall stop T301, T300, T302, T319 and T390, if running, upon cell change due to reception of reconfigurationWithSync or cell (re)-selection of the relay UE.

Proposal 10b: RAN2 to discuss whether remote UE judges “cell change” when the received SIB1 includes a different cell.

Discussion:

CATT doubt the necessity of these proposals; they think the timer expiry can handle these situations and they see this as an optimisation, but they can accept if there is a majority view. Ericsson agree.

vivo think the proposals are a bit confusing: P10a says the remote UE shall stop the timer, and P10b defines the “cell change”. So they think we should settle the definition of cell change before agreeing on P10a.

Lenovo understand that the point of P10b is how the remote UE recognises that the relay UE is served by a new cell: from a notification message by the relay UE or from SIB1, and the proposal is to align on SIB1. They think the UE will receive the notification message first, and the updated SIB1 comes later, and they think this creates an ambiguity period.

OPPO have some concern about P10a because of the phrase “upon cell change”; they think the triggering condition should be something that happens to the remote UE, not the relay UE, so they would like to reword P10a to say “upon cell change of relay UE”. ZTE have a similar concern, and also think that for the idle/inactive remote UE, the cell change can be regarded as cell reselection and the stop condition for the timers would then already be covered.

LG think in P10a, the timers can stop based on the cause value in the notification message from relay UE, and on P10b they have a similar concern to Lenovo that there is an ambiguity period between the notification message and SIB1.

InterDigital are OK with P10a, and think the relay can handle the ambiguity in P10b; so they think we may not need spec impact for the remote UE’s behaviour, considering that the notification message can signal the cell change.

* [AT118-e][632][Relay] Cell change for remote UE (InterDigital)

 Scope: Discuss P10a and P10b from R2-2206339 and attempt to reach an agreeable conclusion.

 Intended outcome: Report to Monday week 2 session

 Deadline: Friday 2022-05-13 1800 UTC

Proposal 4: RAN2 discuss if any immediate decisions are required to accommodate positioning SIB requests in Rel. 17 or later (to ensure forward compatibility)

Agreements:

[Easy] Proposal 1: MIB is not required by a U2N Remote UE.

Capture a NOTE in 38.331 for Proposal 1 (details to be resolved in RRC CR discussion).

[Easy] Proposal 3: A Remote UE indicates its interests for any SIBs (not SI-messages) to Relay UE via RemoteUEInformationSidelink” and ASN.1 changes are made accordingly to enable this.

[Easy] Proposal 5: No specification changes are required to implement that “upon PC5 RRC connection release, relay UE initiates transmission of the SidelinkUEInformationNR message to release the corresponding sl-PagingIdentity-RemoteUE”.

System information issues (handled in email)

[R2-2204585](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204585%20General%20SIB%20forwarding%20for%20Remote%20UE.docx) General SIB forwarding for Remote UE [M119][H629] MediaTek Inc. discussion Rel-17 NR\_SL\_relay-Core

[R2-2204586](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204586%20Positioning%20SIB%20forwarding%20for%20Remote%20UE.docx) Positioning SIB forwarding for Remote UE [M119][H629] MediaTek Inc. discussion Rel-17 NR\_SL\_relay-Core

[R2-2204674](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204674%20%5BE083%5D%5BH593%5D%20Two%20copies%20of%20a%20same%20SIB%20and%20related%20remote%20UE%20behaviour.docx) [E083][H593] Two copies of a same SIB and related remote UE behaviour vivo discussion

[R2-2204886](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CDraft_R2-2204886.doc) Discussion on SI forwarding NEC Corporation discussion Rel-17 NR\_SL\_relay-Core

[R2-2205064](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205064%20Discussion%20on%20remote%20UE%27s%20SIB%28s%29%20acquisition%20and%20paging%20monitoring.docx) Discussion on remote UE’s SIB(s) acquisition and paging monitoring ZTE, Sanechips discussion Rel-17 NR\_SL\_relay-Core

[R2-2205065](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205065%20Correction%20on%20remote%20UE%C3%AD) Correction on remote UE’s SIB(s) acquisition and paging monitoring ZTE, Sanechips CR Rel-17 38.331 17.0.0 3037 - F NR\_SL\_relay-Core

[R2-2205319](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205319.doc) Discussion on how to support posSIB(s) forwarding Xiaomi discussion

[R2-2205609](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205609%20Clarification%20of%20SI%20acquisition.doc) Clarification of SI acquisition for RRC\_IDLE/RRC\_INACTIVE Remote UE (RIL#: E084, H593) Samsung discussion Rel-17 NR\_SL\_relay-Core

Documents without identified RIL (no ASN.1 impact)

[R2-2204550](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204550.doc) Discussion on paging information management for a remote UE SHARP Corporation discussion NR\_SL\_relay-Core

[R2-2204551](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204551.doc) Discussion on cell change of remote UE due to relay UE's cell change SHARP Corporation discussion NR\_SL\_relay-Core

[R2-2204676](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204676%20OOC.docx) OOC concept for remote UE vivo discussion

[R2-2205113](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205113-Cause%20value%20for%20Relay%20UE%20%2838.331%20running%20CR%29.docx) Cause value for Relay UE (38.331 running CR) LG Electronics France CR Rel-17 38.331 17.0.0 3051 - F NR\_SL\_relay-Core

[R2-2205115](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205115-remaining%20issues%20for%20control%20plane%20procedure%20for%20relay%20operation.docx) remaining issues for control plane procedure for relay operation LG Electronics France discussion Rel-17

[R2-2205131](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205131%20Connection%20establishment%20and%20resume%20failure%20occurrence%20to%20a%20L2%20U2N%20Remote%20UE.docx) Connection establishment and resume failure occurrence to a L2 U2N Remote UE ASUSTeK CR Rel-17 38.331 17.0.0 3052 - F NR\_SL\_relay-Core

[R2-2205132](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205132%20Associating%20two%20sidelink%20RLC%20bearer%20configurations%20for%20bi-directional%20sidelink%20RLC%20bearer%20to%20support%20L2%20U2N%20Relay.docx) Associating two sidelink RLC bearer configurations for bi-directional sidelink RLC bearer to support L2 U2N Relay ASUSTeK CR Rel-17 38.331 17.0.0 3053 - F NR\_SL\_relay-Core

[R2-2205856](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205856%20Correction%20for%20RRC%20reestablishment.docx) Correction for RRC Reestablishment in Sidelink relay Nokia, Nokia Shanghai Bell draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay\_enh-Core

[R2-2205991](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205991%20Clarification%20on%20relay%20and%20remote%20UE%20behavior%20during%20failure%20handling.docx) Clarification on relay and remote UE behavior during failure handling Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

RILs where some discussion is needed

R2-2205496 is on N111

[R2-2204764](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204764.docx) [C121] Necessity of Releasing the Paging Request of Remote UE via SidelinkUEInformationNR CATT discussion Rel-17 NR\_SL\_relay-Core

[R2-2204959](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204959%20%5BB104%5D%20TP%20on%20stop%20condition%20of%20T300%20v1.0.doc) [B104] TP on stop condition of T300 Lenovo discussion Rel-17

[R2-2204960](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204960%20%5BB105%5D%20TP%20on%20setup%20request%20procedure%20v1.0.doc) [B105] TP on setup request procedure Lenovo discussion Rel-17

[R2-2204961](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204961%20%5BB106%5D%20TP%20on%20re-establishment%20procedure%20v1.0.doc) [B106] TP on re-establishment procedure Lenovo discussion Rel-17

[R2-2205496](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205496%20Correction%20for%20setting%20cause%20value%20for%20sidelink%20relay.docx) Correction on cause value in sidelink relay Nokia, Nokia Shanghai Bell draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

[R2-2206042](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206042%20-%20Discussion%20on%20%5BO090%5D.docx) Discussion on [O090] OPPO discussion Rel-17 NR\_SL\_relay-Core

MAC related

R2-2204766 Discussion on the LCIDs of SL-SCH for Uu Logical Channels of Remote UE CATT discussion Rel-17 NR\_SL\_relay-Core

Stage 2 related

[R2-2204991](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204991-38300_Correction%20to%20support%20L3%20U2N%20Relay.docx) Correction to support L3 U2N Relay OPPO draftCR Rel-17 38.300 17.0.0 NR\_SL\_relay-Core

38.304 related

[R2-2205905](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205905%20%28R17%20SL%20Relay%20WI_A6721_Paging_Corrections_in_304%29.docx) Draft CR on Corrections on Paging Reception by the Relay UE InterDigital draftCR Rel-17 38.304 17.0.0 NR\_SL\_relay-Core

Rapporteur’s proposed treatment appears agreeable

[R2-2204634](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38331_draftCR_%28Rel-17%29_R2-2204634%20-%20%5BO006%2C%20O007%2C%20O008%2C%20O010%2C%20O011%2C%20O054%2C%20O900%5D.docx) Correction on [O006, O007, O008, O010, O011, O054, O900] OPPO draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2204765](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204765.docx) [C122]Conditions of RemoteUEInformationSidelink Transmission CATT discussion Rel-17 NR\_SL\_relay-Core

[R2-2204989](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204989-Discussion%20on%20inter%20layer%20interaction%20for%20NR%20sidelink%20relay.docx) Discussion on inter layer interaction for NR sidelink relay OPPO discussion Rel-17 NR\_SL\_relay-Core

[R2-2205321](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205321.doc) [X208] Discussion on remote UE’s on-demand SI in CONNECTED Xiaomi discussion

[R2-2205695](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205695%20%5BB100%5D%20SL%20Timers%20Broadcast%20in%20SIB1.docx) [B100] SL Timer Broadcast in SIB1 Lenovo discussion NR\_SL\_relay-Core Revised

[R2-2205699](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205699%20%5BB212%5D%20RRC%20Connected%20Remote%20UE%20cannot%20acquire%20SIB1.docx) [B212] RRC Connected Remote UE cannot acquire SIB1 Lenovo discussion NR\_SL\_relay-Core R2-2205695

[R2-2205906](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205906%20%28R17%20SL%20Relay%20WI_A6721_RIL_U455.docx) [U455] Draft CR on Corrections to Paging DRX Cycle InterDigital draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

[R2-2205907](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205907%20%28R17%20SL%20Relay%20WI_A6721_RIL_U456_U473.docx) [U456][U473] Draft CR on Corrections to Trigger Conditions of RemoteUEInformationSidelink InterDigital draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

[R2-2205908](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205908%20%28R17%20SL%20Relay%20WI_A6721_RIL_U465.docx) [U465] Draft CR on Corrections to Relay UE Uu SI Request InterDigital draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

[R2-2205909](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205909%20%28R17%20SL%20Relay%20WI_A6721_RIL_U482.docx) [U482] Draft CR on Corrections to NotificationMessageSidelink InterDigital draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

#### 6.7.2.2 Service continuity

Service continuity between Uu and relay paths, limited to intra-gNB cases.

Summary document

[R2-2206053](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206053.docx) Summary of 6.7.2.2 service continuity (Xiaomi) Xiaomi discussion Rel-17 NR\_SL\_relay-Core

Proposal 1: Change 4 and 5 in [1], [4], [5], [8] are critical changes.

Proposal 2: [2], [3], [6], [7], [9] are non-critical changes.

[1] R2-2204635 Correction on [O009, o017, O020, O022-O025] OPPO

[2] R2-2204795 Miscellaneous corrections for NR SL Relay in 38.300 ZTE, Sanechips

[3] R2-2204990 Correction to support IDLE INACTIVE relay UE OPPO

[4] R2-2205093 38.331 CR for SL relay events Samsung

[5] R2-2205320 [X200] Discussion on path swith failure upon target relay UE Pcell change Xiaomi

[6] R2-2205339 Service continuity open issues in L2 NR sidelink relay Sony

[7] R2-2205375 On the entry and leave conditions for path switch in SL relay Nokia, Nokia Shanghai Bell

[8] R2-2205633 Discussion on how remote UE gets its local ID in direct-to-indirect path switch when target relay UE is in IDLE/INACTIVE state Apple

[9] R2-2205987 Clarification on Uu threshold handling when configured with measurements of L2 U2N Relay Ues Huawei, HiSilicon CR

Discussion:

OPPO point out that R2-2204635 changes 4 and 5 are covered in [Pre118-e][602].

Flagged in summary as containing critical changes

[R2-2205093](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205093%2038.331%20CR%20for%20SL%20relay%20events.docx) 38.331 CR for SL relay events Samsung CR Rel-17 38.331 17.0.0 3047 - F NR\_SL\_relay-Core

- Add procedure of serving L2 U2N Relay UE to be applicable for event X2 in 5.5.4.1.

- Add procedure to exclude allowed-list and excluded-list of event X2 in 5.5.4.1.

- Add procedure of L2 U2N Relay UE detected on the associated frequency to be applicable for event Y2 in 5.5.4.1.

Discussion:

Samsung indicate the first two changes need to be agreed, and the third is already in the RRC CR.

Agreements:

- Add procedure of serving L2 U2N Relay UE to be applicable for event X2 in 5.5.4.1.

- Add procedure to exclude allowed-list and excluded-list of event X2 in 5.5.4.1.

[R2-2205633](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205633%20-%20Discussion%20on%20how%20remote%20UE%20gets%20its%20local%20ID%20in%20direct-to-indirect%20path%20switch.doc) Discussion on how remote UE gets its local ID in direct-to-indirect path switch when target relay UE is in IDLE/INACTIVE state Apple discussion Rel-17 NR\_SL\_relay-Core

Proposal 1: On how remote UE obtains its local ID when the target relay UE is IDLE/INACTIVE state, RAN2 is suggested to down-select between below Alt-1 and Alt-2:

• Alt-1: In a RRCReconfiguration message after relay UE enters CONNECTED state

o Main benefit is to simplify gNB operation on allocating / recycling local IDs which are not to be used if target relay UE fails to enter CONNECTED state

• Alt-2: In path switch command towards remote UE

o Main benefit is no latency for UL data transmission after path switch (i.e., remote UE UL data can be sent as early as the first RRCReconfigurationComplete message in step 4)

Discussion:

OPPO understand we intended alternative 2 based on the current procedures, and we rely on the network to align the procedures between remote and relay UEs. ASUSTeK and Nokia agree with OPPO.

Apple think the majority view on the reflector was for alternative 2, and we may capture a NOTE about the expected gNB alignment.

Huawei indicate the CR already implements alternative 2; they think the network is usually expected to provide aligned configurations and a NOTE may not be necessary. Apple think the IDs are provided at separate times so the NOTE may be helpful.

Ericsson agree with Huawei and think the NOTE is not needed. They think we should not specify gNB behaviour.

ZTE wonder if the local ID request IE could be absent in SUI of relay UE, so that the gNB is not required to allocate the remote local ID for the relay UE.

Agreement:

Proposal 1 (modified): Remote UE obtains its local ID when the target relay UE is IDLE/INACTIVE state in path switch command towards remote UE.

The gNB is expected to align the remote UE’s local ID between the remote and relay UEs.

Covered in [AT118-e][602]

[R2-2205320](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205320.doc) [X200] Discussion on path swith failure upon target relay UE Pcell change Xiaomi discussion

[R2-2205339](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205339.doc) Service continuity open issues in L2 NR sidelink relay Sony discussion Rel-17 NR\_SL\_relay-Core

[R2-2204635](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38331_draftCR_%28Rel-17%29_R2-2204635%20-%20%5BO009%2C%20O017%2C%20O020%2C%20O022-O025%5D.docx) Correction on [O009, o017, O020, O022-O025] OPPO draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

Stage 2 related

[R2-2204795](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204795%20Miscellaneous%20corrections%20for%20NR%20SL%20Relay%20in%2038.300.doc) Miscellaneous corrections for NR SL Relay in 38.300 ZTE, Sanechips CR Rel-17 38.300 17.0.0 0445 - F NR\_SL\_relay-Core

[R2-2204990](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204990-38300_Correction%20to%20support%20IDLE%20INACTIVE%20relay%20UE.docx) Correction to support IDLE INACTIVE relay UE OPPO draftCR Rel-17 38.300 17.0.0 NR\_SL\_relay-Core

Documents without identified RIL (no ASN.1 impact)

[R2-2205375](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205375%20On%20the%20entry%20and%20exit%20conditions%20for%20path%20switch%20in%20SL%20relay.docx) On the entry and leave conditions for path switch in SL relay Nokia, Nokia Shanghai Bell draftCR Rel-17 38.331 17.0.0 C NR\_SL\_relay-Core

[R2-2205987](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205987_38331_CR%233146_Rel-17_Clarification%20on%20Uu%20threshold%20handling%20when%20configured%20with%20measurements%20of%20L2%20U2N%20Relay%20UEs.docx) Clarification on Uu threshold handling when configured with measurements of L2 U2N Relay Ues Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3146 - F NR\_SL\_relay-Core

#### 6.7.2.3 Adaptation layer design

Including bearer mapping, remote UE identification, security aspects if any.

[R2-2204796](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204796%20Correction%20on%20BEARER%20ID%20determination.doc) Correction on BEARER ID determination ZTE, Sanechips CR Rel-17 38.351 17.0.0 0002 - F NR\_SL\_relay-Core

[R2-2204797](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204797%20Corrections%20on%20the%20DL%20bearer%20mapping.docx) Correction on the DL bearer mapping ZTE, Sanechips CR Rel-17 38.351 17.0.0 0003 - F NR\_SL\_relay-Core

[R2-2205133](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205133%20Corrections%20on%20SRAP%20PDU%20handling%20and%20ID%20field%20determination.docx) Corrections on SRAP PDU handling and ID field determination ASUSTeK CR Rel-17 38.351 17.0.0 0004 - F NR\_SL\_relay-Core

[R2-2205431](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205431%20Correction%20on%20the%20handling%20of%20unknown%2C%20unforeseen%2C%20and%20erroneous%20protocol%20data%20and%20other%20miscellaneous%20in%20SRAP.docx) Correction on the handling of unknown, unforeseen, and erroneous protocol data and other miscellaneous in SRAP Huawei, HiSilicon CR Rel-17 38.351 17.0.0 0005 - F NR\_SL\_relay-Core

#### 6.7.2.4 QoS

Mechanisms for E2E QoS management.

[R2-2204993](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204993-38321_Correction%20for%20sequential%20rule%20of%20destination%20index.doc) Correction for sequential rule of destination index OPPO draftCR Rel-17 38.321 17.0.0 NR\_SL\_relay-Core

#### 6.7.2.5 Discovery and re/selection

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

Summary document

[R2-2206056](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206056_Summary%20of%20AI%206.7.2.5%20on%20Discovery%20and%20%28re%29selection-v03_Rapp.docx) Summary of AI 6.7.2.5 on Discovery and (re)selection vivo discussion Rel-17 NR\_SL\_relay-Core

[to be agreed]

Proposal 1-1: RAN2 to agree UL/SL prioritization rules in MAC specification should also consider SL discovery transmissions.

Proposal 1-4: RAN2 to agree that resource pool selection procedure for discovery should be specified in MAC specification and this procedure is applicable to both single MAC PDU case and multiple MAC PDU case.

Discussion:

OPPO have some concern on P1-1; they agree with the intention but think the CR needs some tuning.

Apple think we should modify P1-1 to say the rules “apply to” discovery transmissions.

Agreements:

Proposal 1-1 (modified): RAN2 to agree UL/SL prioritization rules in MAC specification also apply to SL discovery transmissions.

Proposal 1-4: RAN2 to agree that resource pool selection procedure for discovery should be specified in MAC specification and this procedure is applicable to both single MAC PDU case and multiple MAC PDU case.

Detailed implementation of these agreements can be discussed in the MAC CR discussion.

[to be discussed]

Proposal 1-2: If Proposal 1-1 is agreed, further discuss whether the TP in R2-2205610 is agreeable.

Proposal 1-3: The TP in R2-2204769 (TS 38.321) to add definition of LCID for discovery is to be discussed.

Proposal 2-1: RAN2 to discuss whether the relay (re)selection procedure should be updated with adding cell (re)selection in the procedure text, and if yes, adopt the TP in R2-2204587 as baseline.

Proposal 2-2: RAN2 to discuss whether UE shall only monitor dedicated discovery RX pool(s) when performing discovery reception operation if the UE is (pre-)configured with dedicated discovery RX pool(s), and if yes, adopt the TP on [O058] in R2-2204636 as baseline.

Proposal 2-3: If Proposal 1-4 is agreed, RAN2 to further discuss whether the TP in R2-2204768 is agreeable, or we introduce a dedicated sub-clause for TX pool selection.

Proposal 2-4: RAN2 to discuss whether the Uu threshold conditions are also used to control whether a UE shall MONITOR discovery messages for relay operation, and if yes, to further discuss whether the TP in R2-2205345 is agreeable.

Proposal 2-5: RAN2 to discuss whether groupcast can be used for discovery transmission, and if no, adopt the TP in R2-2205963 as baseline.

Proposal 2-6: RAN2 to discuss whether SL CG is supported for 1) non-relay discovery message transmission and 2) relay discovery message transmission by relay/remote UE before remote UE connection with relay UE, and if both no, adopt the TP in R2-2205356 as baseline.

Proposal 2-7: RAN2 to discuss whether CBR should be measured for discovery in dedicated and/or shared pool, and if yes, adopt the TP in R2-2204564 as baseline.

[others]

Proposal 3: R2-2204992 (TS 38.304), R2-2205114(TS 38.321), and TP of P3 in R2-2205345(TS 38.331), can be handled by related CR rapporteur.

Proposal 4: R2-2205357 (TS 38.331) is an optimization and is de-prioritized.

Proposal 5: R2-2204636 (except [O058]), R2-2205063 are to be discussed in [Pre118-e][602].

RILs where some discussion is needed

[R2-2204564](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204564%20%5BV353%5D%5BZ652%5D%20Discussion%20and%20corrections%20on%20CBR%20measurements%20for%20NR%20SL%20discovery.docx) [V353][Z652] Discussion and corrections on CBR measurements for NR SL discovery vivo discussion

[R2-2204587](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204587%20Relay%20selection%20Requirement%20conflict.docx) Relay selection requirement conflict [M112][v208] MediaTek Inc. discussion Rel-17 NR\_SL\_relay-Core

[R2-2204636](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38331_draftCR_%28Rel-17%29_R2-2204636%20-%20%5BO042%2C%20O047-O049%2C%20O058-O060%5D.docx) Correction on [O042, O047-O049, O058-O060] OPPO draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2204675](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204675%20%5BV410%5D%5BO058%5D%20Dedicated%20pool%20for%20discovery%20reception.docx) [V410][O058] Dedicated pool for discovery reception vivo discussion

MAC related

R2-2204767 Discussion on Resource Pool Selection for Discovery Message CATT discussion Rel-17 NR\_SL\_relay-Core

[R2-2204768](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204768.docx) Correlation on Resource Pool Selection for Discovery Message CATT draftCR Rel-17 38.321 17.0.0 F NR\_SL\_relay-Core

[R2-2204769](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204769.docx) Introduction of LCID for discovery message CATT draftCR Rel-17 38.321 17.0.0 F NR\_SL\_relay-Core

[R2-2205114](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205114-Reduction%20of%20some%20parts%20of%20selection%20of%20logical%20channels%20in%20SL%20Relay%20%20%2838.321%20running%20CR%29.docx) Reduction of some parts of selection of logical channels in SL Relay (38.321 running CR) LG Electronics France CR Rel-17 38.321 17.0.0 1254 - F NR\_SL\_relay-Core

[R2-2205356](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205356%20Discussion%20on%20MAC%20functionality%20for%20discovery.docx) Discussion on MAC functionality for discovery Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2205610](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205610%20Correction%20on%20SL%20discovery%20and%20UL%20prioritization.doc) Correction on SL discovery and UL prioritization Samsung discussion Rel-17 NR\_SL\_relay-Core

38.304 related

[R2-2204992](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204992-38304_Correction%20to%20support%20non-relay%20discovery.docx) Correction to support non-relay discovery OPPO draftCR Rel-17 38.304 17.0.0 NR\_SL\_relay-Core

Documents without identified RIL (no ASN.1 impact)

[R2-2205063](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205063%20Corrections%20on%20the%20Sidelink%20discovery%20transmission.docx) Correction on the Sidelink discovery transmission ZTE, Sanechips CR Rel-17 38.331 17.0.0 3036 - F NR\_SL\_relay-Core

[R2-2205345](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205345.docx) Sidelink discovery operation - monitoring and transmission Beijing Xiaomi Mobile Software draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

Documents without identified RIL (ASN.1 impact)

[R2-2205357](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205357%20Assisting%20L2%20Remote%20UE%20to%20correctly%20evaluate%20threshold%20condition.docx) Assisting L2 Remote UE to correctly evaluate threshold condition Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

RLC related

[R2-2205963](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.322_draftCR%28Rel-17%29_R2-2205963%20-%2038.322%20CR%20for%20removing%20groupcast%20transmission%20mode%20for%20sidelink%20discovery.docx) Correction on Groupcast transmission mode support for sidelink discovery Qualcomm Incorporated draftCR Rel-17 38.322 17.0.0 C NR\_SL\_relay-Core

#### 6.7.2.6 UE capabilities

[R2-2204637](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38331_draftCR_%28Rel-17%29_R2-2204637%20-%20Correction%20on%20UE%20capability%20for%20discovery%20BC%20list%20%2838.331%29.docx) Correction on UE capability for discovery BC list (38.331) OPPO draftCR Rel-17 38.331 17.0.0 B NR\_SL\_relay-Core

[R2-2204638](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38306_draftCR_%28Rel-17%29_R2-2204638%20-%20Correction%20on%20UE%20capability%20for%20discovery%20BC%20list%20%2838.306%29.docx) Correction on UE capability for discovery BC list (38.306) OPPO draftCR Rel-17 38.306 17.0.0 B NR\_SL\_relay-Core

[R2-2204770](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204770.docx) Further discussion on UE capability CATT discussion Rel-17 NR\_SL\_relay-Core

[R2-2205988](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205988%20Clarification%20on%20supported%20BC%20of%20Uu%20and%20sidelink%20discovery.docx) Clarification on supported BC of Uu and sidelink discovery Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

#### 6.7.2.7 ASN.1 issues

Any contributions related only to the details of relay-specific ASN.1 in 38.331.

Output of pre-meeting RRC CR discussion [602]

[R2-2206077](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2206077.zip) Draft CR for SL relay class1/2 RIL issues (Output of Pre118-e #602) Huawei, HiSilicon draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

[R2-2206078](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206078%20Report%20of%20Pre-118-e%20%23602.docx) Report of Pre118-e #602 Huawei, HiSilicon report Rel-17 NR\_SL\_relay-Core

Higher priority issues (class 2)

Issue 4: PC5 RLC bearer and SRAP configuration for remote UE’s SRB1 transmission at PC5 hop

Proposal 1: Regarding the configuration used for SRB1 transmission/reception at PC5 hop, RAN2 to agree:

– All SRB1 messages are allowed to use default SL-RLC1, i.e. remove the dedicated configuration of PC5 RLC from RRCReestablishment message;

– Discuss whether to remove the dedicated configuration of PC5 RLC from RRCSetup message;

– Define default configuration of SRAP used for reception of RRCResume/RRCReestablishment at PC5 hop, in order to establish SRAP entity and pass the messages to RRC layer.

Discussion:

Ericsson think since RRCSetup is not integrity protected, a dedicated configuration may not be a good idea.

Qualcomm understand that the RRCSetup is similar to what we have on Uu and it does not make sense to remove the configuration for RLC for SRB1. For RRCReestablishment they think it should be removed. Qualcomm think there may be a concern in RAN3 about providing the SL-RLC configuration across F1 interface.

Apple have the same view as Qualcomm; they think we had a previous agreement to include the dedicated configuration, and this is analogous to configuring Uu SRB1. They do think it should be removed from RRCReestablishment, not due to security but because it can be multiplexed with the RRCReconfiguration.

Samsung have the same concern as Ericsson. Chair wonders why it is a different issue from Uu SRB1; Samsung understand that the message carries more of the remote UE’s dedicated configuration.

Intel agree on Uu we have the SRB1 configuration, but think we should check the security concern and essentiality of the configuration offline.

Ericsson indicate we currently allow providing any configuration in RRCSetup, not just SRB1.

Issue 17: Missing information of PCI and ARFCN-DL for key derivation during RRC resume/reestablishment procedure

Proposal 2: PCI and ARFCN-DL should be provided to remote UE to derive KgNB before remote UE receiving RRCResume/RRCReestablishment message. FFS using PC5 RRC or the RRC container in discovery message.

Discussion:

Intel wonder if we have a solution for the target cell ID that is required for the short MAC-I. Huawei indicate that the NCGI is available in the discovery message. Ericsson have the same understanding but want to double-check.

Huawei think SIB1 should be available before RRCReestablishment.

Issue 18: To enable allowlist for Event X1

Proposal 3: RAN2 to agree adding useAllowedCellList in event X1.

Issue 20. Confirm the LCIDs of SL\_RLC1, SL\_RLC0, SL SRB4 are 56, 57, 58.

Proposal 4: RAN2 to confirm the LCIDs of SL\_RLC1, SL\_RLC0, SL SRB4 are 56, 57, 58.

Agreements:

Proposal 1 (modified): Regarding the configuration used for SRB1 transmission/reception at PC5 hop, RAN2 to agree:

– All SRB1 messages are allowed to use default SL-RLC1, i.e. remove the dedicated configuration of PC5 RLC from RRCReestablishment message;

– Discuss offline in [AT118-e][633] whether to remove the dedicated configuration of PC5 RLC from RRCSetup message;

– Define default configuration of SRAP used for reception of RRCResume/RRCReestablishment at PC5 hop, in order to establish SRAP entity and pass the messages to RRC layer.

Proposal 2 (modified): PCI and ARFCN-DL should be provided to remote UE to derive KgNB before remote UE receiving RRCResume/RRCReestablishment message. Discuss offline in [AT118-e][633] whether to use PC5-RRC or the RRC container in discovery message; the availability of target cell ID can also be checked if an issue is found.

Proposal 3: RAN2 to agree adding useAllowedCellList in event X1.

Proposal 4: RAN2 to confirm the LCIDs of SL\_RLC1, SL\_RLC0, SL SRB4 are 56, 57, 58.

* [AT118-e][633][Relay] Remaining ASN.1 review issues (Huawei)

 Scope: Discuss the remaining issues from R2-2206077, prioritising the high and medium priority issues.

 Intended outcome: Report to Monday week 2 session

 Deadline: Friday 2022-05-13 1800 UTC

Medium priority issues (may have asn.1 impact)

Issue 6: How to determine serving cell change of target relay UE before path switch

Proposal 5: RAN2 to down select among the solutions for remote UE determining target relay UE’s serving cell change:

– Based on measurement report;

– Based on cell ID indicated in both of path switch command and discovery message, i.e. NCGI is to be added to path switch command.

– Keep the current description, i.e. left to UE implementation.

Lower priority issues (class 1)

Issue 2: Whether the concept of PCell/current cell is applicable to L2 remote UE

Proposal 6: RAN2 to agree keeping the concept of PCell/current cell for remote UE.

Issue 3: Discuss whether L2 relay can be configured with HO without DRB and/or SRB2

Proposal 7: RAN2 to confirm L2 relay cannot be configured with HO without DRB and/or SRB2 (Same requirement as legacy UE).

Issue 16: Clarify whether CHO can be configured to relay UE

Proposal 8: RAN2 to confirm CHO cannot be configured to L2 U2N Relay UE.

Issue 11: Clarification on the term of “no suitable cell” for OoC case during AS criteria checking, e.g. no serving cell, out of coverage on the frequency used for SL communication, no acceptable cell, no cell to camp on

Proposal 9: RAN2 to discuss to replace “no suitable cell” with which one from “no acceptable cell” or “no serving cell” or “no cell to camp on”.

Issue 5: Clarify the meaning and differentiation of the following term: capable of/acting as/is a L2 U2N Relay UE or Remote UE

Proposal 10: Update the RRC specification as following:

– For the procedural text only applicable to UEs acting as U2N remote UE or U2N relay UE, use “UE is acting as U2N remote/relay UE”

– For the procedural text common for UEs acting as U2N remote/relay UE and UEs to be acting as U2N remote/relay UE, use “UE capable of U2N remote/relay UE operation”

Issue 9: Regarding measurement reporting on candidate relay, clarify if the strongest relay is among the ones met upper layer criteria.

Proposal 11: RAN2 to confirm the remote UE only reports the relay UEs met both of upper layer criteria and AS layer criteria in the measurement results.

Issue 15: Whether to specify remote UE behaviour of re-establish PC5 RLC channel of SRB1 during RRC reestablishment

Proposal 12: RAN2 to discuss whether to specify remote UE behaviour of re-establish PC5 RLC channel of SRB1 during RRC reestablishment.

RILs where some discussion is needed

[R2-2204958](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204958%20%5BB103%5D%20TP%20for%20initiation%20condition%20of%20notification%20message%20v1.0.doc) [B103] TP for initiation condition of notification message Lenovo discussion Rel-17

[R2-2205634](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205634%20-%20Discussion%20on%20whether%20UE%20dedicated%20PC5%20configuration%20can%20be%20configured%20in%20RRCReestablishment%20message%20%28RIL%20A308%2C%20A906%29.doc) Discussion on whether UE dedicated PC5 configuration can be configured in RRCReestablishment message (RIL A308, A906) Apple discussion Rel-17 NR\_SL\_relay-Core

[R2-2205635](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205635%20-%20Discussion%20on%20definition%20of%20U2N%20remote%20UE%20%28RIL%20A304%2C%20A305%2C%20A307%2C%20A311%29.doc) Discussion on definition of U2N remote UE (RIL A304, A305, A307, A311) Apple discussion Rel-17 NR\_SL\_relay-Core

[R2-2205685](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205685%20%5BB207%5D%5BB208%5D%20Correction%20in%20NR%20sidelink%20U2N%20Remote%20UE%20operation.docx) [B207][B208] Correction in NR sidelink U2N Remote UE operation Lenovo Mobile Com. Technology CR Rel-17 38.331 17.0.0 3112 - F NR\_SL\_relay-Core

[R2-2205774](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205774-%20%5BE082%5D%20Correction%20on%20receiving%20short%20message%20by%20remote%20UE.docx) [E082] Correction on receiving short message by remote UE Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2205775](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205775-%20%5BE084%5D%5BE085%5D%20Correction%20on%20on-demand%20SIB%20for%20SL%20relay.docx) [E084][E085] Correction on on-demand SIB for SL relay Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2205826](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205826-SL-Setup_Reest.docx) [M116, A906, I012, I046] SL information in RRC Setup and Reestablishment messages Intel Corporation discussion Rel-17 NR\_SL\_relay-Core Late

RILs marked PropReject with ongoing discussion in pre-meeting [602]

R2-2205066 appears to be on Z618

R2-2205228 is included for E044 only (others are PropAgree)

[R2-2204678](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204678%20%5BV207%5D%5BV208%5D%20L2%20U2N%20Remote%20UE%20RRC%20re-establishment%20procedure.docx) [V207][V208] L2 U2N Remote UE RRC re-establishment procedure vivo discussion

[R2-2204680](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204680%20%5BZ684%5D%20Max%20destination%20index%20and%20resource%20allocation%20impact.docx) [Z684] Max destination index and resource allocation impact vivo discussion

[R2-2205066](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205066%20Correction%20on%20PC5%20RLC%20channel%20configuration.docx) Correction on PC5 RLC channel configuration ZTE, Sanechips CR Rel-17 38.331 17.0.0 3038 - F NR\_SL\_relay-Core

[R2-2205092](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205092%2038.331%20CR%20for%20allow%20and%20exclude%20list%20on%20eventX1%28RIL%23%20S776%29.docx) 38.331 CR for allow and exclude list on eventX1 (RIL#:S776) Samsung CR Rel-17 38.331 17.0.0 3046 - F NR\_SL\_relay-Core

[R2-2205228](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205228%20-%2038331%20correction%20on%20RIL%20issues%20%28E041%2C%20E043%2C%20E044%20and%20E045%29.docx) Correction on RIL issues (E041, E043, E044 and E045) Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2205645](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205645%20Discussion%20on%20SIB%20configuraiton%20for%20relay%20support.doc) [A903] Discussion on SIB12 configuration for relay support Apple discussion Rel-17 NR\_SL\_relay-Core

[R2-2205776](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205776-%20%5BE086%5D%20Correction%20on%20cell%20barring%20for%20SL%20relay.docx) [E086] Correction on cell barring for SL relay Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2205780](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205780-%20%5BE104%5D%5BE112%5D%20Correction%20on%20handling%20on%20timer%20T420.docx) [E104][E112] Correction on handling on timer T420 Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

RILs discussed in pre-meeting [608]

[R2-2204679](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204679_%5Bv213%5D%20Discussion%20on%20timers%20related%20issues.docx) [V213] Discussion on timers related issues vivo discussion

RILs discussed in pre-meeting [610]

[R2-2205962](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.331_draftCR%28Rel-17%29_R2-2205962%20-%2038.331%20RILQ539%20correction%20for%20removal%20of%20unicast%20and%20groupcast%20transmission%20mode%20for%20sidelink%20discovery.docx) RIL#Q539 - Correction on Groupcast and unicast transmission modes support for sidelink discovery Qualcomm Incorporated draftCR Rel-17 38.331 17.0.0 C NR\_SL\_relay-Core

New RILs since v192

[R2-2204962](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204962%20%5BB107%5D%20TP%20on%20unsuitale%20relay%20during%20re-establishment%20v1.0.doc) [B107] TP on unsuitable relay during re-establishment Lenovo discussion Rel-17

Rapporteur handling appears agreeable

[R2-2204677](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204677%20%5BV202%5D%5BV205%5D%20PC5%20RRC%20connection%20establishment%20and%20release%20trigger.docx) [V202][V205] PC5 RRC connection establishment and release trigger vivo discussion

[R2-2204994](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204994-38331_Correction%20on%20the%20definition%20of%20suitable%20relay%20UE.docx) Correction on the definition of suitable relay UE OPPO draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

[R2-2205186](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205186%20-%2038331%20correction%20on%20RIL%20E132.docx) Correction on RIL issue E132 Ericsson draftCR Rel-17 38.331 17.0.0 NR\_SL\_relay-Core

[R2-2205646](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205646%20Discussion%20on%20relay%20UE%20notificaiton%20upon%20Uu%20RLF%20.doc) [A309] Discussion on relay UE notification upon Uu RLF Apple discussion Rel-17 NR\_SL\_relay-Core

[R2-2205690](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205690%20%5BB209%5D%5BB10%5D%5BB211%5D%20Various%20corrections%20for%20Paging%20monitoring%20and%20SI%20Acquisition.docx) [B209][B10][B211] Various corrections for Paging monitoring and System Information acquisition Lenovo CR Rel-17 38.331 17.0.0 3113 - F NR\_SL\_relay-Core

[R2-2205773](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205773-%20%5BE080%5D%20Correction%20on%20UE%20states%20and%20state%20transitions%20for%20SL%20relay.docx) [E080] Correction on UE states and state transitions for SL relay Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2205777](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205777-%20%5BE087%5D%20Correction%20on%20paging%20reception%20by%20the%20remote%20UE.docx) [E087] Correction on paging reception by the remote UE Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2205778](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205778-%20%5BE090%5D%20Correction%20on%20reconfigurationWithSync%20handling%20during%20path%20switch.docx) [E090] Correction on reconfigurationWithSync handling during path switch Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

[R2-2205779](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205779-%20%5BE093%5D%20Correction%20on%20new%20UE%20timers%20for%20remote%20UE.docx) [E093] Correction on new UE timers for remote UE Ericsson draftCR Rel-17 38.331 17.0.0 F NR\_SL\_relay-Core

Added in skeleton v4

[R2-2206072](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206072%20%5BH810%5D%5BM106%5D%5BO075%5D%5BO076%5D%5BB207%5D%5BB208%5D%20On%20term%20of%20OoC%2C%20suitable%20cell%2C%20serving%20cell.docx) [H810][M106][O075][O076][B207][B208] On term of OoC, suitable cell, serving cell Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

[R2-2206073](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206073%20%5BH808%5D%5BX200%5D%20Identification%20of%20target%20Relay%20UE%E2%80%98s%20serving%20cell%20change.docx) [H808][X200] Identification of target Relay UE‘s serving cell change Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3158 - F NR\_SL\_relay-Core

[R2-2206074](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206074%20%5BH811%5D%5BN005%5DChange%20SetupRelease%20to%20optional%20for%20L2%20remote%20configuration%20in%20RRCSetup%2CResume%2CReestablishment.docx) [H811][N005]Change SetupRelease to optional for L2 remote configuration in RRCSetup/Resume/Reestablishment Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3159 - F NR\_SL\_relay-Core

[R2-2206075](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206075%20%5BH812%5D%5BO94%5D%5BI012%5D%20SRB1%20SRAP%20configuration%20and%20defaut%20RLC%20configuration%20at%20PC5%20hop.docx) [H812][O94][I012] SRB1 SRAP configuration and defaut RLC configuration at PC5 hop Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3160 - F NR\_SL\_relay-Core

[R2-2206076](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206076%20%5BH809%5D%5BA304%20A305%20A307%5D%20Clarification%20on%20the%20meaning%20of%20capable%20of%2C%20acting%20as%2C%20is%20L2%20U2N%20remote%20or%20relay%20UE.docx) [H809][A304, A305, A307, A311] Clarification on the meaning of acting as/capable of/is a relay UE/remote UE Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3171 - F NR\_SL\_relay-Core

Withdrawn/Not available

R2-2205187 Correction on RIL issues (E041, E043, E044 and E045) Ericsson discussion Rel-17 38.331 NR\_SL\_relay-Core Withdrawn

### 6.7.3 Other

Any other topics on NR sidelink relay.

MAC related

R2-2204773 Miscellaneous Corrections on SL Relay CATT draftCR Rel-17 38.321 17.0.0 F NR\_SL\_relay-Core

TR 37.985 related

[R2-2204800](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204800%20TP%20to%20introduce%20Rel-17%20sidelink%20relay%20and%20discovery%20for%20TR%2037.985.docx) TP to introduce Rel-17 sidelink relay and discovery in TR 37.985 ZTE, Sanechips draftCR Rel-17 37.985 17.1.1 NR\_SL\_relay-Core

Discussion:

CATT point out the TR is not in the relay WID. vivo understand there was a similar issue with MUSIM.

Chair will consult with the RAN2 secretary on procedure for this TR.

Stage 2 related

[R2-2205432](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205432%20Corrections%20on%20stage2%20specification%20for%20sidelink%20relay.docx) Corrections on stage2 specification for sidelink relay Huawei, HiSilicon CR Rel-17 38.300 17.0.0 0459 - F NR\_SL\_relay-Core

[R2-2205781](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205781-%20Misc%20correction%20on%2038.300%20for%20SL%20relay.docx) Misc correction on 38.300 for SL relay Ericsson draftCR Rel-17 38.300 17.0.0 F NR\_SL\_relay-Core

PDCP related

[R2-2205611](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205611%20Support%20of%20non-IP%20PDU%20type%20in%20PDCP%20protocol.doc) Support of non-IP PDU type in PDCP protocol Samsung discussion Rel-17 NR\_SL\_relay-Core

Other

[R2-2205989](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205989_36331_CR%234814_Rel-17_Clarification%20on%20NR%20sidelink%20relay%20related%20configuration.docx) Clarification on NR sidelink relay related configuration Huawei, HiSilicon CR Rel-17 36.331 17.0.0 4814 - F NR\_SL\_relay-Core

* Postponed (can be seen as a TEI17 CR in future)

Discussion:

Chair indicates the LTE RRC spec is not in the Rel-17 relay WID. Ericsson and CATT have the same understanding.

Huawei indicate this is a clarification, and the LTE RRC only refers to an RRC container without clarifying what can be included.

OPPO think it is not a critical issue.

## 6.11 NR positioning enhancements

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

WI has been declared 100% complete.

### 6.11.1 Organizational

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

Incoming LSs with RAN2 in Cc:

[R2-2204477](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204477_R4-2206980.docx) LS on lower Rx beam sweeping factor for latency improvement (R4-2206980; contact: Intel) RAN4 LS in Rel-17 To:RAN1 Cc:RAN2

Incoming LSs with RAN2 in To: and “take into account” action

[R2-2204420](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204420_R1-2202849.docx) Reply LS on positioning issues needing further input (R1-2202849; contact: CATT) RAN1 LS in Rel-17 To:RAN2 Cc:RAN3

[R2-2204424](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204424_R1-2202912.docx) Reply LS on Positioning Reference Units (PRUs) for enhancing positioning performance (R1-2202912; contact: CATT) RAN1 LS in Rel-17 To:RAN2 Cc:RAN3, SA2

[R2-2204425](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204425_R1-2202922.docx) LS on multiple measurement instances (R1-2202922; contact: CATT) RAN1 LS in Rel-17 To:RAN2, RAN3

[R2-2204441](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2204441.zip) Response LS on determination of location estimates in local co-ordinates (S2-2201545; contact: Ericsson) SA2 LS in Rel-17 To:RAN2 Cc:RAN1, RAN3

[R2-2204464](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204464_R1-2202847.docx) LS on frequency information of SRS for positioning resources (R1-2202847; contact: CATT) RAN1 LS in Rel-17 To:RAN2, RAN3

[R2-2204508](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204508_R4-2207088.docx) Reply LS on latency improvement for PRS measurement with MG (R4-2207088; contact: Huawei) RAN4 LS in Rel-17 To:RAN2, RAN1 Cc:RAN3

[R2-2204521](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2204521.zip) Reply LS on Positioning in RRC\_INACTIVE State (S2-2203250; contact: Huawei) SA2 LS in Rel-17 To:RAN2 Cc:RAN3

Incoming LSs with RAN2 in To: and other action

[R2-2204478](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204478_R4-2206998.docx) LS on the UE/TRP TEG framework (R4-2206998; contact: CATT) RAN4 LS in Rel-17 To:RAN1, RAN2

[R2-2204491](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204491_R3-222721.docx) Questions concerning the implementation of RAN1 agreements in NRPPa (R3-222721; contact: Ericsson) RAN3 LS in Rel-17 To:RAN1, RAN2 Cc:RAN4

[R2-2206150](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206150_Response%20LS%20from%20RTCM%20on%20GNSS%20integrity_2.docx) Response LS to RTCM SC134 on GNSS integrity (RTCM; contact: ESA) RTCM LS in Rel-17 NR\_pos\_enh-Core To:RAN2

Draft replies

[R2-2204684](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204684%20%5BDraft%5D%20Reply%20LS%20on%20the%20response%20of%20the%20positioning%20issues%20from%20RAN1%28R1-2202849%3B%20contact%20CATT%29.docx) [Draft] Reply LS on the response of the positioning issues from RAN1(R1-2202849; contact: CATT) CATT LS out Rel-17 To:RAN1 Cc:RAN3

[R2-2204685](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204685%20Reply%20LS%20on%20the%20reply%20LS%20on%20Positioning%20Reference%20Units%20%28PRUs%29%20for%20enhancing%20positioning%20performance%20%28R1-2202912%20%20contact%20CATT%29.docx) Reply LS on the reply LS on Positioning Reference Units (PRUs) for enhancing positioning performance (R1-2202912; contact: CATT) CATT LS out Rel-17 To:RAN1 Cc:RAN3, SA2

[R2-2204686](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204686%20Reply%20LS%20on%20multiple%20measurement%20instances%20%28R1-2202922%3B%20contact%20CATT%29.docx) Reply LS on multiple measurement instances (R1-2202922; contact: CATT) CATT LS out Rel-17 To:RAN1 Cc:RAN3

[R2-2204688](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204688%20Reply%20LS%20on%20UETRP%20TEG%20framework%20issues%20%28R4-2206998%3B%20contact%20CATT%29.docx) Reply LS on the UE/TRP TEG framework (R4-2206998; contact: CATT) CATT LS out Rel-17 To:RAN4 Cc:RAN1,RAN3

Rapporteur work plan

[R2-2204934](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204934%20Known%20corrections%26issues%20for%20Rel-17%20positioning%20WI.docx) Known corrections/issues for the correction phase on Rel-17 positioning WI Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

Stage 2

[R2-2204930](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204930_Open%20issues%20on%20TS38.305%20.docx) Open issues on TS38.305 Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

[R2-2204931](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204931-38.305%20CR%20for%20Positioning%20WI.docx) 38.305 CR for Positioning WI Intel Corporation draftCR Rel-17 38.305 17.0.0 F NR\_pos\_enh-Core

[R2-2204995](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204995%20Correction%20on%20stage-2%20for%20path%20RSRP.docx) Corrections on stage 2 for path RSRP Huawei, HiSilicon CR Rel-17 38.305 17.0.0 0092 - F NR\_pos\_enh-Core

38.331

[R2-2205859](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205859%20Positioning%20RRCCR.docx) Correction based upon Positioning RILs Ericsson CR Rel-17 38.331 17.0.0 3121 - F NR\_pos\_enh-Core Late

37.355

[R2-2205828](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205828_%28Summary%20of%20LPP%20Updates%29.docx) Summary of LPP Updates and Open Issues Qualcomm Incorporated discussion

[R2-2205829](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205829_%28draft%20CR%2037355%20LPP%20Updates%29.docx) LPP Updates Qualcomm Incorporated draftCR Rel-17 37.355 17.0.0 F NR\_pos\_enh-Core

Withdrawn/Not available

R2-2204687 Reply LS on frequency information of SRS for positioning resources (R1-2202847; contact: CATT) CATT LS out Rel-17 To:RAN1 Cc:RAN3 Late

=> Withdrawn

### 6.11.2 Essential corrections

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

#### 6.11.2.1 Latency enhancements

Enhancements of signalling, and procedures for improving positioning latency of the Rel-16 NR positioning methods, for DL and DL+UL positioning methods.

Summary document

[R2-2206147](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206147%20Summary%20of%20AI%206.11.2.1%20on%20latency.docx) Summary of AI 6.11.2.1 on latency ZTE Corporation discussion Rel-17 NR\_pos\_enh-Core

* Revised in R2-2206340

[R2-2206340](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206340%20Summary%20of%20AI%206.11.2.1%20on%20latency.docx) Summary of AI 6.11.2.1 on latency ZTE, Sanechips discussion Rel-17 NR\_pos\_enh-Core

The following documents will not be individually treated

[R2-2204699](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204699%20Discussion%20on%20the%20positioning%20MG%20activation%20deactivation%20MAC%20CE.docx) Discussion on the positioning MG activation deactivation MAC CE CATT discussion Rel-17 NR\_pos\_enh-Core

[R2-2204700](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.321_CR1229_%28Rel-17%29_R2-2204700.docx) Correction on the positioning MG activation deactivation MAC CE CATT CR Rel-17 38.321 17.0.0 1229 - F NR\_pos\_enh-Core

[R2-2204701](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204701%20Discussion%20on%20the%20cancel%20conditions%20of%20the%20triggered%20UL%20positioning%20MG%20activation%20deactivation%20MAC%20CE.docx) Discussion on the cancel conditions of the triggered UL positioning MG activation/deactivation MAC CE CATT discussion Rel-17 NR\_pos\_enh-Core

[R2-2204702](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.321_CR1230_%28Rel-17%29_R2-2204702.docx) Correction on the cancel conditions of the triggered UL positioning MG activation/deactivation MAC CE CATT CR Rel-17 38.321 17.0.0 1230 - F NR\_pos\_enh-Core

[R2-2204703](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.331_CR2996_%28Rel-17%29_R2-2204703.docx) Correction on the cancel conditions of the triggered UL positioning MG activation/deactivation MAC CE CATT CR Rel-17 38.331 17.0.0 2996 - F NR\_pos\_enh-Core

[R2-2204742](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.321_CR1228_%28Rel-17%29_R2-2204742.docx) Corrections on the TS38.321 CATT CR Rel-17 38.321 17.0.0 1228 - F NR\_pos\_enh-Core

[R2-2204996](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204996%20Corrections%20on%20MAC%20CE%20for%20Preconfigured%20Positioning%20MG.docx) Corrections on MAC CE for Positioning Measurement Gap Huawei, HiSilicon CR Rel-17 38.321 17.0.0 1244 - F NR\_pos\_enh-Core

[R2-2205309](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205309%20Correction%20on%20pre-configured%20MG%20procedure%20in%2038.321.docx) Correction on pre-configured MG procedure in 38.321 ZTE, Sanechips CR Rel-17 38.321 17.0.0 1271 - F NR\_pos\_enh-Core

[R2-2205311](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205311%20Discussion%20on%20the%20pre-configured%20MG%20signaling.docx) Discussion on the pre-configured MG signaling ZTE, Sanechips discussion Rel-17 NR\_pos\_enh-Core

[R2-2205579](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205579%20Discussion%20on%20the%20handling%20of%20pre-MG%20for%20positioning.docx) Discussion on the handling of pre-MG for positioning vivo discussion Rel-17 NR\_pos\_enh-Core

[R2-2205656](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38321_CR1278_%28Rel-17%29_R2-2205656-Pos-meas-Gap-CE-v0.docx) Definition of positioning measurement gap activation/deactivation MAC CE Apple CR Rel-17 38.321 17.0.0 1278 - F NR\_pos\_enh-Core

[R2-2205764](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205764_%28Issues%20with%20PPW%29.docx) Issues with PRS Processing Window Procedures Qualcomm Incorporated discussion

[R2-2205766](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205766_%28Area%20ID%29.docx) Assistance Data Request for Multiple Area IDs Qualcomm Incorporated discussion

[R2-2205804](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205804%20areaID.docx) Text Proposal to address UE request of Area Info and Broadcast of Area Ericsson, Fraunhofer IIS, Fraunhofer HHI, Lenovo, Motorola Mobility discussion Rel-17

* Revised in R2-2206331

[R2-2206331](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206331_areaIDPosSIB.docx) Text Proposal to address UE request of Area Info and Broadcast of Area Ericsson, Fraunhofer IIS, Fraunhofer HHI, Lenovo, Motorola Mobility discussion Rel-17

[R2-2205808](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205808%20activate%20PPW.docx) Correction to activate pre-configured PPW Signaling Ericsson CR Rel-17 38.305 17.0.0 0097 - F NR\_pos\_enh-Core

[R2-2205809](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205809%20Correction%20MACCE.docx) Correction of PPW Activation/Deactivation Command MAC CE size description Ericsson CR Rel-17 38.321 17.0.0 1285 - F NR\_pos\_enh-Core

[R2-2205810](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205810%20Clarification%20on%20PPW%20and%20MG%20.docx) Clarification on PPW and MG configuration to the same UE and miscellaneous corrections Ericsson CR Rel-17 38.305 17.0.0 0098 - F NR\_pos\_enh-Core

[R2-2205812](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205812%20UL%20MAC%20CE%20Design.docx) UL MAC CE for preconfigured MG Ericsson discussion Rel-17

[R2-2205814](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205814%20PPW%20ConfigRelease.docx) On PPW Configuration Release assistance info Ericsson discussion Rel-17

Withdrawn/Not available

R2-2204704 Corrections on the TS38.305 CATT CR Rel-17 38.305 17.0.0 0090 - F NR\_pos\_enh-Core Late

* Withdrawn

#### 6.11.2.2 RRC\_INACTIVE

Methods, measurements, signalling and procedures to support positioning for UEs in RRC\_ INACTIVE state, for UE-based and UE-assisted positioning solutions. UL and DL+UL NR positioning methods and gNB positioning measurements for UEs in RRC\_INACTIVE are treated at lower priority.

Summary document

[R2-2206052](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206052%20Summary%20of%20AI%206.11.2.2%20on%20RRC_INACTIVE.docx) Summary of AI 6.11.2.2 on RRC\_INACTIVE vivo discussion Rel-17 NR\_pos\_enh-Core

The following documents will not be individually treated

[R2-2204691](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204691%20Further%20consideration%20on%20Periodic%20and%20Triggered%205GC-MT-LR.docx) Further consideration on Periodic and Triggered 5GC-MT-LR Procedure in RRC INACTIVE state CATT discussion

[R2-2204692](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204692%20%5BDraft%5D%20Reply%20LS%20on%20Positioning%20in%20RRC_INACTIVE.DOCX) [Draft] Rely LS on Positioning in RRC\_INACTIVE CATT LS out Rel-17 To:SA2 Cc:RAN3

[R2-2204693](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204693%20Consideration%20on%20positioning%20SRS%20configuration.docx) Consideration on positioning SRS configuration for RRC\_INACTIVE CATT discussion

[R2-2205012](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205012%20Correction%20to%20beam%20consolidation%20for%20posSRS%20in%20RRC_INACTIVE.docx) Correction to beam consolidation for posSRS in RRC\_INACTIVE Huawei, HiSilicon CR Rel-17 38.321 17.0.0 1245 - F NR\_pos\_enh-Core

[R2-2205013](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205013%20%5BH572%5D%20Correction%20for%20beam%20consolidation%20for%20TA%20validation%20in%20RRC_INACTIVE.docx) [H572] Correction for beam consolidation for TA validation in RRC\_INACTIVE Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3030 - F NR\_pos\_enh-Core

[R2-2205368](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205368%20Corrections%20on%20Maintenance%20of%20Uplink%20Time%20Alignment.doc) Corrections on Maintenance of Uplink Time Alignment Xiaomi discussion

[R2-2205580](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205580%20Discussion%20on%20remaining%20issue%20about%20positioning%20in%20RRC_INACTIVE.docx) Discussion on the remaining issue about positioning in RRC\_INACTIVE vivo discussion Rel-17 NR\_pos\_enh-Core

#### 6.11.2.3 On-demand PRS

Specify UE-initiated and LMF-initiated on-demand transmission and reception of DL PRS for DL and DL+UL positioning for UE-based and UE-assisted positioning solutions.

Summary document

[R2-2206058](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206058%20%5BPre118-e%5D%5B605%5D%5BPOS%5D%20Summary%20of%20AI%206.11.2.3%20on%20on-demand%20PRS%20%28Huawei%29_final.docx) [Pre118-e][605][POS] Summary of AI 6.11.2.3 on on-demand PRS (Huawei) Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

The following documents will not be individually treated

[R2-2205007](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205007%20%5BH011%5D%20TRP%20config%20for%20on-demand%20PRS.docx) [H011] TRP config for on-demand PRS Huawei, HiSilicon CR Rel-17 37.355 17.0.0 0342 - F NR\_pos\_enh-Core

[R2-2205011](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205011%20%5BH057%5D%20Discussion%20on%20UE-initiated%20on-demand%20PRS.docx) [H057] Discussion on UE-initiated on-demand PRS Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

[R2-2205581](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205581%20Mismatch%20between%20the%20on-demand%20PRS%20procedure%20of%20RAN2%20and%20RAN3.docx) Discussion on the mismatch between the on-demand PRS procedure of RAN2 and RAN3 vivo discussion Rel-17 NR\_pos\_enh-Core

[R2-2205805](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205805%20ODPRS.docx) On UE measurements to allow On-Demand PRS Ericsson, Nokia, Fraunhofer IIS, Fraunhofer HHI, Lenovo, Motorola Mobility CR Rel-17 38.305 17.0.0 0095 - F NR\_pos\_enh-Core

#### 6.11.2.4 GNSS positioning integrity

Signalling and procedures to support GNSS positioning integrity determination.

Summary document

[R2-2206092](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206092%20-%20Summary%20AI%20GNSS%20Integrity.docx) Summary of GNSS Positioning Integrity AI 6.11.2.4 Ericsson discussion Rel-17 NR\_pos\_enh-Core

The following documents will not be individually treated

[R2-2204997](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204997%20Draft%20LS%20to%20SA1%20and%20SA2%20on%20GNSS%20integrity.docx) Draft LS to SA1/SA2 on GNSS integrity Huawei, HiSilicon LS out Rel-17 NR\_pos\_enh-Core To:RAN1

[R2-2205017](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205017%20Correction%20to%20stage2%20on%20service%20level%20support%20for%20GNSS%20integrity.docx) Correction to stage2 on service level support for GNSS integrity Huawei, HiSilicon CR Rel-17 38.305 17.0.0 0093 - F NR\_pos\_enh-Core

[R2-2205488](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205488_%286.11.2.4%29%20CR_38305_Corrections%20on%20Positioning%20Integrity%20parameter%20table.docx) Corrections on Positioning Integrity parameter table Samsung R&D Institute UK draftCR Rel-17 38.305 17.0.0 NR\_pos\_enh-Core

[R2-2205815](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205815%20integrity.docx) Remaining issues for integrity Ericsson discussion Rel-17

[R2-2206037](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C37.355_CR0348_%28Rel-17%29_R2-2206037.docx) [C002] Correction on the Note of the Protection Level (PL) CATT CR Rel-17 37.355 17.0.0 0348 - F NR\_pos\_enh-Core

=> Revised in R2-2206067

[R2-2206067](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C37.355_CR0348r1_%28Rel-17%29_R2-2206067.docx) [C002] Correction on the Note of the Protection Level (PL) CATT CR Rel-17 37.355 17.0.0 0348 1 F NR\_pos\_enh-Core

#### 6.11.2.5 A-GNSS enhancements

Including support of BDS B2a and B3I signals and support of NavIC.

[R2-2204689](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C36.305_CR0108_%28Rel-17%29_R2-2204689.docx) Correction on the reference file of BDS Signal B3I CATT, CAICT CR Rel-17 36.305 17.0.0 0108 - F NR\_pos\_enh-Core

[R2-2204690](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.305_CR0087_%28Rel-17%29_R2-2204690.docx) Correction on the reference file of BDS Signal B3I CATT, CAICT CR Rel-17 38.305 17.0.0 0087 - F NR\_pos\_enh-Core

#### 6.11.2.6 Accuracy enhancements

Input on the accuracy enhancement objectives led by RAN1.

Summary document

[R2-2206083](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206083%20%5BPre118-e%5D%5B607%5D%5BPOS%5D%20Summary%20of%20AI%206.11.2.6%20on%20accuracy%20%28CATT%29.docx) [Pre118-e][607][POS] Summary of AI 6.11.2.6 on accuracy (CATT) CATT discussion Rel-17

* Revised in R2-2206333

[R2-2206333](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206333%20%5BPre118-e%5D%5B607%5D%5BPOS%5D%20Summary%20of%20AI%206.11.2.6%20on%20accuracy%20%28CATT%29.docx) [Pre118-e][607][POS] Summary of AI 6.11.2.6 on accuracy (CATT) CATT discussion Rel-17

The following documents will not be individually treated

[R2-2204696](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204696-Discussion%20on%20R17%20positioning%20enhancement%20impacts%20on%20stage-2%20specification.docx) Discussion on R17 positioning enhancement impacts on stage-2 specification CATT discussion Rel-17 NR\_pos\_enh-Core

[R2-2204697](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.305_CR0091_%28Rel-17%29_R2-2204697.docx) Introduction of R17 NRPPa related positioning enhancement to TS38.305 CATT CR Rel-17 38.305 17.0.0 0091 - F NR\_pos\_enh-Core

[R2-2204698](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204698%20%5BDraft%5D%20LS%20to%20RAN3%20on%20introduction%20of%20R17%20NRPPa%20related%20positioning%20enhancement%20to%20TS38.305.docx) [Draft] LS to RAN3 on introduction of R17 NRPPa related positioning enhancement to TS38.305 CATT LS out Rel-17 To:RAN3

[R2-2204705](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204705%20Discussion%20on%20the%20LS%20on%20the%20framework%20of%20UETRP%20Rx%20TEG.DOCX) Discussion on the LS on the framework of UE/TRP Rx TEG CATT discussion Rel-17

[R2-2204706](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204706%20Discussion%20on%20the%20left%20issues%20on%20UE%20TxTEG%20report%20in%20RRC%20and%20LPP%20protocols.DOCX) Discussion on the left issues on UE TxTEG report in RRC and LPP protocols CATT discussion

[R2-2204707](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38.331_CR2994_%28Rel-17%29_R2-2204707.docx) [C243] Correction on the UE TxTEG report in TS 38.331 CATT CR Rel-17 38.331 17.0.0 2994 - F NR\_pos\_enh-Core

[R2-2204708](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C37.355_CR0335_%28Rel-17%29_R2-2204708.docx) [C013][C014][C015][C016][C017]Corrections on the UE TxTEG report in TS 37.355 CATT CR Rel-17 37.355 17.0.0 0335 - F NR\_pos\_enh-Core

[R2-2204987](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C37.355_CR0336_%28Rel-17%29_R2-2204987.docx) [C011] Correction on the beam antenna information for DL-AoD CATT CR Rel-17 37.355 17.0.0 0336 - F NR\_pos\_enh-Core

[R2-2204988](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C37.355_CR0337_%28Rel-17%29_R2-2204988.docx) [C012] Correction on the selected on-demand PRS configuration for hybrid positioning CATT CR Rel-17 37.355 17.0.0 0337 - F NR\_pos\_enh-Core

[R2-2205003](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205003%20%5BH028%5D%20Correction%20to%20measurement%20with%20multiple%20TEGs.docx) [H028] Correction to measurement with multiple TEGs Huawei, HiSilicon CR Rel-17 37.355 17.0.0 0338 - F NR\_pos\_enh-Core

[R2-2205004](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205004%20%5BH026%5D%5BH027%5D%5BH029%5D%5BH030%5D%20Correction%20to%20LOS-NLOS%20indication.docx) [H026][H027][H029][H030] Correction to LOS-NLOS indication Huawei, HiSilicon CR Rel-17 37.355 17.0.0 0339 - F NR\_pos\_enh-Core

[R2-2205005](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205005%20%5BH006%5D%5BH040%5D%20Correction%20to%20adjacent%20beam%20assistance%20data.docx) [H006][H040] Correction to adjacent beam assistance data Huawei, HiSilicon CR Rel-17 37.355 17.0.0 0340 - F NR\_pos\_enh-Core

[R2-2205008](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205008%20%5BH013%5D%20Correction%20to%20TRP%20beam%20antenna%20info.docx) [H013] Correction to TRP beam antenna info Huawei, HiSilicon CR Rel-17 37.355 17.0.0 0343 - F NR\_pos\_enh-Core

[R2-2205016](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205016%20%5BH060%5D%20Correction%20on%20DL-AoD%20additional%20measurement.docx) [H060] Correction on DL-AoD additional measurement Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3033 - F NR\_pos\_enh-Core

[R2-2205307](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205307%20%5BH026%5D%5BH029%5D%5BZ004%5DDiscussion%20on%20LOS%20NLOS%20indicator%20in%20LPP%20spec.docx) [H026][H029][Z004]Discussion on LOS NLOS indicator in LPP spec ZTE, Sanechips CR Rel-17 37.355 17.0.0 0344 - F NR\_pos\_enh-Core

=> Revised in R2-2206051

[R2-2206051](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206051%20%5BH026%5D%5BH029%5D%5BZ004%5DDiscussion%20on%20LOS%20NLOS%20indicator%20in%20LPP%20spec.docx) [H026][H029][Z004]Discussion on LOS NLOS indicator in LPP spec ZTE, Sanechips CR Rel-17 37.355 17.0.0 0344 1 F NR\_pos\_enh-Core

[R2-2205308](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205308%20%5BZ003%5D%5BH025%5DSignaling%20of%20measurement%20instances.docx) [Z003][H025]Signaling of measurement instances ZTE, Sanechips CR Rel-17 37.355 17.0.0 0345 - F NR\_pos\_enh-Core

[R2-2205369](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205369%20Discussion%20on%20the%20Periodic%20Tx%20TEG%20reporting%20and%20preconfigured%20MG.doc) Discussion on the Periodic Tx TEG reporting and preconfigured MG Xiaomi discussion

[R2-2205370](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205370%20Remaining%20issues%20on%20positioning%20reference%20unit.doc) Remaining issues on positioning reference unit Xiaomi discussion

[R2-2205582](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205582%20Discussion%20on%20remaining%20issue%20about%20accuracy%20enhancements.docx) Discussion on remaining issue about accuracy enhancements vivo discussion Rel-17 NR\_pos\_enh-Core

[R2-2205654](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205654-positioning-periodic-tx-teg-v0.docx) On periodic UE Tx TEG reporting Apple discussion Rel-17 NR\_pos\_enh-Core

[R2-2205730](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205730%20%28R17%20NR%20POS%20WI%20A61126_AccEnh%29.doc) Discussion on UE TX TEG association reporting InterDigital, Inc. discussion Rel-17

[R2-2205806](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205806%20Failure%20Report%20for%20TEG.docx) Remaining Issues on TEG reporting; failure Handling Ericsson discussion Rel-17

[R2-2205807](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205807%20TableUpdate.docx) Update of signalling in stage 2 to align with NRPPa Ericsson CR Rel-17 38.305 17.0.0 0096 - B NR\_pos\_enh-Core

#### 6.11.2.7 UE capabilities

[R2-2204933](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204933_Positioning%20UE%20capabilities.docx) Positioning UE capabilities Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

[R2-2205009](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205009%20%5BH022%5D%20Summary%20of%20R2-agreed%20Capabilities%20for%20R17%20POSenh.docx) [H022] Summary of R2-agreed capabilities for R17 POSenh Huawei, HiSilicon CR Rel-17 38.822 16.3.0 0010 - B NR\_pos\_enh-Core

[R2-2206330](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206330%20PPW%20Capability.docx) On Resolving PPW Capability discrepancy Ericsson discussion

#### 6.11.2.8 LPP ASN.1 issues

Any contributions related only to the details of ASN.1 in 37.355. CRs should not be submitted to this agenda item except by the specification rapporteur.

ASN.1 review process documents

[R2-2205843](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2205843.zip) Rel-17 LPP RIL Qualcomm Incorporated discussion

* Revised in R2-2206326

[R2-2206326](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2206326.zip) Rel-17 LPP RIL Qualcomm Incorporated discussion

[R2-2205844](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2205844.zip) Rel-17 LPP ASN1 Review File Qualcomm Incorporated discussion

* Revised in R2-2206327

[R2-2206327](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2206327.zip) Rel-17 LPP ASN1 Review File Qualcomm Incorporated discussion

[R2-2205846](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205846_%28draft%20CR%2037355%20Editorial%20Issues%29.docx) Editorial Corrections Qualcomm Incorporated draftCR Rel-17 37.355 17.0.0 F NR\_pos\_enh-Core

R2-2205847 LPP Updates and ASN.1 Corrections Qualcomm Incorporated CR Rel-17 37.355 17.0.0 0347 - F NR\_pos\_enh-Core Late

[R2-2206328](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206328_%28draft%20CR%2037355%20LPP%20Updates%29.docx) LPP Updates and ASN.1 Review Qualcomm Incorporated draftCR Rel-17 37.355 17.0.0 F NR\_pos\_enh-Core

Proposals on RIL issues

[R2-2204932](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204932_I004%20Validity%20area%20for%20preconfigured%20AD.docx) I004 Validity area for preconfigured AD Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

[R2-2205010](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205010%20%5BH042%5D%5BH004%5D%5BH012%5D%5BH025%5D%20Draft%20LS%20to%20R1%20for%20remaining%20issues.docx) [H042][H004][H012][H025] Draft LS to R1 for remaining issues Huawei, HiSilicon LS out Rel-17 NR\_pos\_enh-Core To:SA1, SA2

[R2-2205430](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205430.docx) Discussion of the need of the area ID for the pre-configured assistance data OPPO discussion Rel-17 NR\_pos\_enh-Core

[R2-2205583](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205583%20%5BV003%5D%20Discussion%20on%20the%20format%20of%20pre-configuration.docx) [V003] Discussion on the format of pre-configuration vivo discussion Rel-17 NR\_pos\_enh-Core

[R2-2205584](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205584%20%5BV004%5D%5BV006%5DDiscussion%20on%20LPP%20ASN.1%20issues.docx) [V004][V006]Discussion on LPP ASN.1 issues vivo discussion Rel-17 NR\_pos\_enh-Core

[R2-2205813](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205813%20LPP%20RIL%20E603-E604.docx) LPP RIL E603 and 604 on associated TRP Ericsson discussion Rel-17 37.355 Late

#### 6.11.2.9 Positioning RRC ASN.1 issues

Any contributions related only to the details of positioning-specific ASN.1 in 38.331.

ASN.1 review process documents

[R2-2205857](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CDocs%5CR2-2205857.zip) RRC Positioning RIL Summary Ericsson discussion Rel-17 Late

Measurement gap issues

[R2-2205000](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205000%20%5BH566%5D%5BH567%5D%20Correction%20for%20Location%20Measurement%20Indication.docx) [H566][H567] Correction for Location Measurement Indication Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3027 - F NR\_pos\_enh-Core

[R2-2205048](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205048%20%5BS854%5D%5BS855%5D%5BS856%5D%20Handling%20pre-MG%20for%20POS%20upon%20HO.docx) [S854][S855][S856] Handling preconfigured gaps for POS upon a handover Samsung discussion Rel-17 NR\_pos\_enh-Core

[R2-2205310](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205310%20Correction%20on%20pre-configured%20MG%20procedure%20in%2038.331.docx) Correction on pre-configured MG procedure in 38.331 ZTE, Sanechips CR Rel-17 38.331 17.0.0 3066 - F NR\_pos\_enh-Core

RILs marked as ToDisc

[R2-2204999](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204999%20%5BH570%5D%20Correction%20for%20cell%20reselection%20for%20SRS%20in%20RRC_INACTIVE.docx) [H570] Correction for cell reselection for SRS in RRC\_INACTIVE Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3026 - F NR\_pos\_enh-Core

[R2-2205811](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205811%20RIL%20E064%20TEG%20Reporting.docx) [RILE064] Moving TEG Reporting Configuration from SRS-Config to RRCReconfig Ericsson CR Rel-17 38.331 17.0.0 3118 - F NR\_pos\_enh-Core

[R2-2205816](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205816%20E060.docx) [RIL E060] On removal of Editors' Note for SRS Inactive mode procedure during RRC Resume Ericsson discussion Rel-17 38.331 Late

[R2-2205817](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205817%20RILE061.docx) [RIL E060] Editors Note Discussion on RRC Procedure Structure on section Ericsson discussion Late

Documents on other RIL issues

[R2-2204998](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2204998%20%5BH568%5D%20Correction%20for%20periodic%20TEG%20reporting.docx) [H568] Correction for periodic TEG reporting Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3025 - F NR\_pos\_enh-Core

[R2-2205001](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205001%20%5BH563%5D%20Correction%20for%20reception%20of%20RRCRelease%20by%20the%20UE.docx) [H563]Correction for reception of RRCRelease by the UE Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3028 - F NR\_pos\_enh-Core

[R2-2205049](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205049%20%5BS851%5D%5BS852%5D%5BS853%5D%20Type%20and%20prioirty%20configuration%20of%20PPW.docx) [S851][S852][S853] Type and priority configuration of PPW Samsung discussion Rel-17 NR\_pos\_enh-Core

[R2-2205498](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205498_%286.11.2.9%29%20%5BE066%5D%20Correction%20on%20structure%20of%20UEPositioningAssistInfo%20message%20contents%20for%20reducing%20unnecessary%20data%20transmission.docx) [E066] Correction on structure of UEPositioningAssistInfo message contents for reducing unnecessary data transmission Samsung R&D Institute UK discussion

[R2-2205585](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205585%20Discussion%20on%20positioning%20RRC%20ASN.1%20issues.docx) Discussion on positioning RRC ASN.1 issues vivo discussion Rel-17 NR\_pos\_enh-Core

### 6.11.3 Other

Any other topics on NR positioning enhancements.

[R2-2205006](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205006%20%5BH056%5D%20Correction%20to%20need%20code%20in%20posSIB_R17.docx) [H056] Correction to need code in posSIB\_R17 Huawei, HiSilicon CR Rel-17 37.355 17.0.0 0341 - F NR\_pos\_enh-Core

[R2-2205655](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5C38305_CR0094_%28Rel-17%29_R2-2205655-Pos-stage-2-UL-UE-TEG-v0.docx) Stage-2 positioning corrections Apple CR Rel-17 38.305 17.0.0 0094 - F NR\_pos\_enh-Core

## 6.21 TEI17

Time budget: 2 TU

### 6.21.2 TEI proposals initiated by RAN2

Proposals that has not yet been agreed.

Tdoc limitation: 2 tdocs, except for Operators.

[R2-2205845](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2205845%20Remaining%20details%20for%20high-precision%20GNSS%20reporting.docx) Remaining details for high-precision GNSS reporting ESA, Ericsson, Deutsche Telekom, T-Mobile USA, Swift Navigation, Hexagon discussion Rel-17 37.355

* Revised in R2-2206329

[R2-2206329](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202205%20-%20RAN2_118-e%2C%20Online%5CExtracts%5CR2-2206329%20Remaining%20details%20for%20high-precision%20GNSS%20reporting.docx) Remaining details for high-precision GNSS reporting ESA, Ericsson, Deutsche Telekom, T-Mobile USA, Swift Navigation, Hexagon, MediaTek Inc., u-blox discussion Rel-17 37.355