3GPP TSG-RAN WG2 Meeting #113-e R2-21xxxxx
Online, Jan 25 – Feb 5, 2021

Source: Session Chair (MediaTek)
Title: Report from 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.

* [AT113-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 2021-02-05 1000 UTC

* [AT113-e][601][POS] Integrity text proposal (Swift)

 Scope: Continue discussion of the remaining open issues on integrity, taking into account contributions to agenda items 8.11.3.1 and 8.11.3.2, and develop an agreeable text proposal

 Intended outcome: Updated TP

 Deadline: Tuesday 2021-02-02 1200 UTC

* [AT113-e][602][POS] LTE Rel-15 positioning CRs (CATT)

 Scope: Discuss and conclude on R2-2100391/R2-2100392/R2-2100393, R2-2100394/R2-2100395/R2-2100396, and R2-2101819/R2-2101818

 Intended outcome: Agreed CRs

 Deadline: Monday 2021-02-01 1200 UTC

* [AT113-e][603][POS] NR Rel-15 positioning CRs (Qualcomm)

 Scope: Discuss and conclude on R2-2101380/R2-2101381, R2-2101465, R2-2101468, R2-2100397, R2-2100398/R2-2100399, R2-2100400/R2-2100401, R2-2101816/R2-2101817, and R2-2101926/R2-2101927

 Intended outcome: Agreed CRs

 Deadline: Monday 2021-02-01 1200 UTC

* [AT113-e][604][Relay] Issues from agenda item 8.7.4 (OPPO)

 Scope: Discuss the proposals from R2-2102239, determine what needs to be resolved in the study item phase, and converge on the critical proposals

 Intended outcome: Summary to be discussed in online session

 Deadline: Tuesday 2021-02-02 1200 UTC

# 4 EUTRA corrections Rel-15 and earlier

See Appendix A for reference to Work items, work item codes and WIDs.

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

## 4.4 Positioning corrections Rel-15 and earlier

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

[R2-2100391](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C36305_CR0094_%28Rel-14%29_R2-2100391.docx) corrections on the descriptions of RequestLocationInformation message in TS36.305 CATT CR Rel-14 36.305 14.3.0 0094 - F UTRA\_LTE\_iPos\_enh2-Core

[R2-2100392](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C36305_CR0095_%28Rel-15%29-R2-2100392.docx) corrections on the descriptions of RequestLocationInformation message in TS36.305 CATT CR Rel-15 36.305 15.5.0 0095 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2100393](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C36305_CR0096_%28Rel-16%29-R2-2100393.docx) corrections on the descriptions of RequestLocationInformation message in TS36.305 CATT CR Rel-16 36.305 16.2.0 0096 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2100394](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C36305_CR0097_%28Rel-14%29-R2-2100394.docx) corrections on the indication for the not provided assistance data and location information in TS36.305 CATT CR Rel-14 36.305 14.3.0 0097 - F UTRA\_LTE\_iPos\_enh2-Core

[R2-2100395](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C36305_CR0098_%28Rel-15%29-R2-2100395.docx) corrections on the indication for the not provided assistance data and location information in TS36.305 CATT CR Rel-15 36.305 15.5.0 0098 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2100396](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C36305_CR0099_%28Rel-15%29-R2-2100396.docx) corrections on the indication for the not provided assistance data and location information in TS36.305 CATT CR Rel-16 36.305 16.2.0 0099 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2101818](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101818%20Correction%20to%20the%20basic%20production%20for%20positioning%20AD%20broadcast-R16.doc) Correction to the basic production for positioning AD broadcast-R16 Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0289 - A LCS\_LTE\_acc\_enh-Core

[R2-2101819](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101819%20Correction%20to%20the%20basic%20production%20for%20positioning%20AD%20broadcast-R15.doc) Correction to the basic production for positioning AD broadcast-R15 Huawei, HiSilicon CR Rel-15 37.355 15.1.0 0290 - F LCS\_LTE\_acc\_enh-Core

# 5 Rel-15 WI: New Radio (NR) Access Technology

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

Only essential corrections. Includes all R15 NR drops and architectures.

## 5.5 Positioning corrections

Corrections to both the stage 2 and stage 3 aspects related to positioning. Stage 2 CRs should be discussed with the specification rapporteur before submission.

Documents in this agenda item will be handled in a break out session.

Stage 3

[R2-2101379](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101379%20Discussion%20GNSS%20AD%20resolution%20indication.docx) GNSS RTK observations resolution indication Ericsson discussion Rel-15

[R2-2101380](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101380%20GNSS%20AD%20CR.docx) Correction of A-GNSS Assistance Data RTK Observation Ericsson CR Rel-15 37.355 15.1.0 0285 - F NR\_newRAT-Core

[R2-2101381](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101381%20GNSS%20AD%20resolution%20CR%20A.docx) Correction of A-GNSS Assistance Data RTK Observation Ericsson CR Rel-16 37.355 16.3.0 0286 - A NR\_newRAT-Core

Stage 2 cleared with rapporteur

[R2-2101465](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101465_%2838305%20SFN%20Init%20OTDOA%20R15%29.docx) Support OTDOA assistance data for case of NR serving cell Qualcomm Incorporated, Ericsson CR Rel-15 38.305 15.7.0 0061 - F NR\_newRAT-Core

[R2-2101468](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101468_%2838305%20SFN%20Init%20OTDOA%20R16%29.docx) Support OTDOA assistance data for case of NR serving cell Qualcomm Incorporated, Ericsson CR Rel-16 38.305 16.3.0 0062 - F NR\_newRAT-Core

Stage 2 not cleared with rapporteur

[R2-2100397](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C38305_CR0054_%28Rel-15%29_R2-2100397.docx) Remove the NOTE in architecture figure in TS38.305 CATT CR Rel-15 38.305 15.7.0 0054 - F NR\_newRAT-Core

[R2-2100398](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C38305_CR0055_%28Rel-15%29_R2-2100398.docx) corrections on the indication for the not provided assistance data and location information in TS38.305 CATT CR Rel-15 38.305 15.7.0 0055 - F NR\_newRAT-Core

[R2-2100399](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C38305_CR0056_%28Rel-16%29_R2-2100399.docx) corrections on the indication for the not provided assistance data and location information in TS38.305 CATT CR Rel-16 38.305 16.3.0 0056 - A NR\_newRAT-Core

[R2-2100400](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C38305_CR0057_%28Rel-15%29_R2-2100400.docx) corrections on the descriptions of RequestLocationInformation message in TS38.305 CATT CR Rel-15 38.305 15.7.0 0057 - F NR\_newRAT-Core

[R2-2100401](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C38305_CR0058_%28Rel-16%29_R2-2100401.docx) corrections on the descriptions of RequestLocationInformation message in TS38.305 CATT CR Rel-16 38.305 16.3.0 0058 - A NR\_newRAT-Core

[R2-2101815](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101815%20Clarification%20on%20E-CID%20and%20NR%20E-CID.docx) Clarification on E-CID and NR E-CID Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2101816](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101816%20Correction%20to%20E-CID-R15.doc) Correction to E-CID-R15 Huawei, HiSilicon CR Rel-15 38.305 15.7.0 0063 - F NR\_newRAT-Core

[R2-2101817](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101817%20Correction%20to%20E-CID-R16.doc) Correction to E-CID-R16 Huawei, HiSilicon CR Rel-16 38.305 16.3.0 0064 - A NR\_newRAT-Core

[R2-2101926](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101926%20Correction%20on%20the%20descritpion%20for%20UE%20capability%20transfer-R15.doc) Correction on the descritpion for UE capability transfer-R15 Huawei, HiSilicon CR Rel-15 38.305 15.7.0 0066 - F NR\_newRAT-Core

[R2-2101927](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101927%20Correction%20on%20the%20descritpion%20for%20UE%20capability%20transfer-R16.doc) Correction on the descritpion for UE capability transfer-R16 Huawei, HiSilicon CR Rel-16 38.305 16.3.0 0067 - A NR\_newRAT-Core

[R2-2101928](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101928%20Correction%20to%205G%20support%20for%20NB-IOT%20positioning-R15.doc) Correction to 5G support for NB-IOT positioning-R15 Huawei, HiSilicon CR Rel-15 38.305 15.7.0 0068 - F NR\_newRAT-Core

[R2-2101929](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101929%20Correction%20to%205G%20support%20for%20NB-IOT%20positioning-R16.doc) Correction to 5G support for NB-IOT positioning-R16 Huawei, HiSilicon CR Rel-16 38.305 16.3.0 0069 - A NR\_newRAT-Core

# 6 Rel-16 NR Work Items

Essential corrections. While high maintenance intensity is expected, Rel-16 corrections are treated separately per WI.

Tdoc Limitation: 40 tdocs in total for all sub agenda items, or the restriction for each sub-AI, whichever is more restrictive.

## 6.6 NR Positioning Support

(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 in a break out session

Tdoc Limitation: 9 tdocs, See also tdoc limitation for Agenda Item 6

### 6.6.1 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.

This agenda item will use a summary document (Ericsson).

Incoming LS (and draft reply)

[R2-2100044](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100044_R3-207220.docx) LS on Rel-16 NR Positioning Correction (R3-207220; contact: Huawei) RAN3 LS in Rel-16 NR\_pos-Core To:RAN2, RAN1

[R2-2101830](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101830%20%5BDraft%5D%20Reply%20LS%20on%20Rel-16%20NR%20Positioning%20Correction.docx) [Draft] Reply LS on Rel-16 NR Positioning Correction Huawei, HiSilicon LS out Rel-16 NR\_pos-Core To:RAN3 Cc:RAN1

Summary document

[R2-2102226](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2102226%20Summary%20.docx) Summary for stage2 corrections for NR Positioning Ericsson discussion Rel-16 NR\_SON\_MDT-Core

The following documents will not be treated individually

[R2-2100402](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C38305_CR0059_%28Rel-16%29_R2-2100402.docx) Miscellaneous corrections in TS38.305 CATT CR Rel-16 38.305 16.3.0 0059 - F NR\_pos-Core

[R2-2101383](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101383%20UL%20SRS%20Periodic%20Activation%20Time.docx) Activation Time for Periodic UL SRS Transmission Ericsson discussion Rel-16

[R2-2101385](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101385%20UE%20handling%20of%20PFL.docx) UE handling of Positioning Frequency Layer Ericsson CR Rel-16 38.305 16.3.0 0060 - F NR\_pos-Core

[R2-2101829](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101829%20Correction%20on%20the%20description%20for%20gNB%20measurements.doc) Correction on the description for gNB measurements Huawei, HiSilicon, Qualcomm Incorporated CR Rel-16 38.305 16.3.0 0065 - F NR\_pos-Core

### 6.6.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

This agenda item will use a summary document (Huawei).

Summary document

[R2-2101832](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101832%20Summary%20for%20POS%20RRC%20AI%206.6.2.docx) Summary for POS RRC AI 6.6.2 Huawei, HiSilicon discussion Rel-16 NR\_pos-Core Late

The following documents will not be treated individually

[R2-2100151](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100151_CR2034r1_38331_Rel16_Corrections%20to%20acquisition%20of%20positioning%20SIBs.docx) Corrections to acquisition of positioning SIBs Samsung Electronics Co., Ltd, Ericsson CR Rel-16 38.331 16.3.1 2034 1 F NR\_pos-Core R2-2009102

[R2-2100403](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C38331_CR2322_%28Rel-16%29_R2-2100403.docx) Corrections on posSIB validity CATT,Ericsson, Intel Corporation, MediaTek Inc CR Rel-16 38.331 16.3.0 2322 - F NR\_pos-Core

[R2-2101386](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101386%20Usage%20of.docx) Usage of ExpirationTime and ValueTag Ericsson discussion Rel-16

[R2-2101899](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101899%20%286.6.2%29%20Correction%20on%20SI%20window%20calculation%20for%20PosSIB.docx) Correction on SI window calculation for PosSIB Samsung R&D Institute UK CR Rel-16 38.331 16.3.1 2449 - F NR\_pos-Core

Withdrawn/Not available

R2-2100404 Correction on Positioning SRS Resource CATT CR Rel-16 38.331 16.3.0 2323 - F NR\_pos-Core Withdrawn

### 6.6.3 LPP corrections

This agenda item will use a summary document (Nokia).

Summary document

[R2-2101889](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101889%20Summary_of_6_6_3_LPP_corrections_v3.docx) Summary of agenda item 6.6.3 - LPP Corrections Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core Late

The following documents will not be treated individually

[R2-2100405](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C37355_CR0283_%28Rel-16%29_R2-2100405.docx) Correction on NR-Multi-RTT-RequestAssistanceData CATT CR Rel-16 37.355 16.3.0 0283 - F NR\_pos-Core

[R2-2100406](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5C37355_CR0284_%28Rel-16%29_R2-2100406.docx) Corrections on the field description of commonIEsProvideAssistanceData in TS37.355 CATT CR Rel-16 37.355 16.3.0 0284 - F NR\_pos-Core

[R2-2101382](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101382%20Tracking%20Area%20Code.docx) Correction of A-GNSS Periodical retrival of Assistance Data Ericsson CR Rel-16 37.355 16.3.0 0287 - F NR\_pos-Core

[R2-2101384](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101384%20%20PFL%20Measurement%20Gap.docx) LPP Layer interaction with lower layers for Positioning Frequency layer and Measurement Gap Ericsson CR Rel-16 37.355 16.3.0 0288 - F NR\_pos-Core

[R2-2101827](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101827%20Correction%20to%20the%20need%20code%20for%20downlink%20LPP%20message.doc) Correction to the need code for downlink LPP message Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0292 - F NR\_pos-Core

[R2-2101828](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101828%20Discussions%20on%20PRS%20configurations.DOC) Discussions on PRS configurations Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0293 - F NR\_pos-Core

* Withdrawn

R2-2102228 Discussions on PRS configurations Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2101858](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101858%20Disucussion%20on%20the%20need%20for%20fields%20in%20the%20uplink%20LPP%20message.docx) Disucussion on the need for fields in the uplink LPP message Huawei, HiSilicon discussion Rel-16

Withdrawn/Not available

R2-2101826 Disucussion on the need for fields in the uplink LPP message Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0291 - F NR\_pos-Core Withdrawn

### 6.6.4 MAC corrections

# 7 Rel-16 EUTRA Work Items

Essential corrections

## 7.6 LTE Positioning

(NavIC, LTE TEI16 Positioning)

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

# 8 Rel-17 NR Work Items

## 8.7 NR Sidelink relay SI

(FS\_NR\_SL\_relay; leading WG: RAN2; REL-17; WID: RP-202208)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.7.1 Organizational

TR updates, rapporteur inputs, other organizational documents. Documents in this AI do not count towards the tdoc limitation.

Work plan

[R2-2100112](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100112%20-%20Work%20planning%20of%20R17%20SL%20relay.doc) Work planning of R17 SL relay OPPO Work Plan Rel-17 FS\_NR\_SL\_relay

Incoming LS (and draft reply)

[R2-2100070](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100070_S2-2009229.docx) Reply LS to Reply LS on Direct Discovery and Relay (S2-2009229; contact: OPPO) SA2 LS in Rel-17 FS\_5G\_ProSe To:RAN2

[R2-2100201](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100201%20%5BDraft%5D%20LS%20on%20Direct%20Discovery%20and%20Relay.docx) [Draft] LS on Direct Discovery and Relay CATT LS out Rel-17 FS\_NR\_SL\_relay To:SA2

* Withdrawn

TR

[R2-2100113](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CDocs%5CR2-2100113.zip) TR 38.836 V1.0.1 OPPO draft TR Rel-17 38.836 1.0.1 FS\_NR\_SL\_relay

[R2-2100170](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100170%20Removal%20of%20comparison%20section%20from%20TR38.836%20for%20SL%20Relay%20v4.docx) Removal of comparison section from TR38.836 for SL Relay MediaTek Inc., OPPO, Interdigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101489](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101489%20L23%20comparison.docx) Comparison of L2 and L3 Relay Architectures Futurewei, Huawei, HiSilicon, MediaTek, Apple, Interdigital, Convida Wireless discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.2 Relaying Mechanisms and their characteristics

No documents should be submitted to 8.7.2. Please submit to 8.7.2.x.

#### 8.7.2.1 Layer 2 relay

Open issues and feasibility for layer 2 relay design.

This agenda item will use a summary document (InterDigital).

Summary document

[R2-2102223](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2102223%20-%20Summary%20document%20for%20AI%208.7.2.1_v2.docx) Summary document for AI 8.7.2.1 InterDigital discussion Rel-17 FS\_NR\_SL\_relay

* Revised in R2-2102237

[R2-2102237](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2102237%20-%20Summary%20document%20for%20AI%208.7.2.1_v5.docx) Summary document for AI 8.7.2.1 InterDigital discussion Rel-17 FS\_NR\_SL\_relay

The following documents will not be treated individually

[R2-2100111](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100111%20-%20Left%20issues%20on%20L2%20Relay.docx) Left issues on L2 Relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100124](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100124%20-%20Remaining%20issues%20on%20L2%20U2N%20relay.doc) Remaining issues on L2 U2N relay Qualcomm Incorporated discussion Rel-17

R2-2100125 Remaining issues on service continuity of L2 U2N relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay Late

* Withdrawn

[R2-2100169](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100169%20Evaluation%20and%20Conclusion%20for%20L2%20UE-to-Network%20Relay%20and%20L2%20UE-to-UE%20Relay%20v7.docx) Evaluation and Conclusion for L2 UE-to-Network Relay and L2 UE-to-UE Relay MediaTek Inc., Apple, Interdigital, Futurewei, Huawei, Hisilicon, Convida discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100202](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100202%20Feasibility%20for%20Layer2%20Relay.docx) Feasibility for Layer2 Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100300](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100300%20Discussion%20on%20remaining%20issues%20on%20L2%20UE-to-Network%20Relay.docm) Discussion on remaining issues on L2 UE-to-Network Relay ZTE Corporation discussion

[R2-2100520](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100520%20%28R17%20SL%20Relay%20SI_AI8721%20CP%20Aspects%29.doc) Remaining Control Plane Aspects for L2 Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100521](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100521%20%28R17%20SL%20Relay%20SI%20AI8721%20UP%20Aspects%29.doc) Discussion on L2 Relay Architecture and QoS InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100535](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100535%20-%20Further%20discussions%20on%20L2%20SL%20relay.docx) Further discussions on L2 SL relay Ericsson discussion Rel-17 FS\_NR\_SL\_relay R2-2009230

[R2-2100656](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100656.doc) Remaining issues for L2 relay Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100867](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100867%20Layer%202%20Relay%20solutions.doc) Discussion on Layer 2 Solutions for UE-to-NW relay and UE-to-UE relay Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100910](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100910.doc) Remaining issues on L2 relay Sony discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101083](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101083%20L3%20vs%20L2%20relaying%20v4.doc) L3 vs L2 relaying Samsung Electronics GmbH discussion Withdrawn

[R2-2101107](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101107%20Considerations%20on%20the%20N2U%20and%20U2U%20relays_v2.0.doc) Consideration on U2N relay and U2U relay Lenovo, Motorola Mobility discussion Rel-17

[R2-2101179](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101179_Remaining%20issues%20on%20L2%20U2N%20Relay.doc) Remaining issues on L2 U2N Relay vivo discussion Rel-17

[R2-2101206](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101206%20L3%20vs%20L2%20relaying%20v4.doc) L3 vs L2 relaying Samsung, Ericsson, Nokia, Nokia Shanghai Bell discussion

[R2-2101300](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101300%20Inter-gNB%20Path%20Switching%20for%20L2%20U2N%20Relay.docx) Inter-gNB Path Switching for L2 U2N Relay Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101601](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101601.doc) Open issues on L2 relay Xiaomi communications discussion

[R2-2101623](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101623%20Remaining%20issue%20on%20RRC%20state%20for%20L2%20relay.docx) Remaining issue on RRC state for L2 relay CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101754](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101754%20Discussion%20on%20CP%20protocol%20stack%20for%20L2%20U2U%20relay.docx) Discussion on CP protocol stack for L2 U2U relay ASUSTeK discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101768](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101768.docx) RRC status transition reporting procedure LG Electronics Inc discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101782](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101782%20Clean-up%20of%20L2%20sidelink%20relay.docx) Clean-up of L2 sidelink relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

#### 8.7.2.2 Layer 3 relay

Open issues and feasibility for layer 3 relay design.

This agenda item will use a summary document (Ericsson).

Summary document

[R2-2102221](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2102221-%20Summary%20document%20for%20AI%208.7.2.2.docx) Summary document for AI 8.7.2.2 Ericsson discussion Rel-17 FS\_NR\_SL\_relay

=> Revised in R2-2102247

[R2-2102247](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2102247-%20Summary%20document%20for%20AI%208.7.2.2.docx) Summary document for AI 8.7.2.2 Ericsson discussion Rel-17 FS\_NR\_SL\_relay

The following documents will not be treated individually

[R2-2100110](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100110%20-%20Left%20issues%20on%20L3%20Relay.docx) Left issues on L3 Relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100122](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100122%20-%20Remaining%20issues%20of%20L3%20relay.doc) Remaining issues of L3 relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100203](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100203%20Feasibility%20for%20Layer3%20Relay.docx) Feasibility for Layer3 Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100301](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100301%20Consideration%20on%20QoS%20of%20L3%20relay.doc) Consideration on QoS of L3 relay ZTE Corporation discussion

[R2-2100548](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100548%20QoS%20for%20SL%20L3%20UE-to-Nwk%20Relay.docx) QoS for L3 UE-to-Network Relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100549](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100549%20SL%20L3%20U2N%20relay%20lossless%20path%20switching.docx) Path switching enhancement for L3 UE-to-Network relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101009](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101009_Remaining_Open_Issues_L3_Relay.docx) Remaining Open Issues for L3 Relay Fraunhofer HHI, Fraunhofer IIS discussion Rel-17

[R2-2101178](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101178%20L3%20SL%20Relay%20Architecture.doc) L3 SL Relay Architecture vivo discussion Rel-17

[R2-2101781](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101781%20Evaluation%20and%20conclusion%20for%20L3%20sidelink%20relay.docx) Evaluation and conclusion for L3 sidelink relay Huawei, HiSilicon, MediaTek Inc., Interdigital, Apple, Futurewei, Convida Wireless, Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.3 Discovery model/procedure for sidelink relaying

This agenda item will use a summary document (CATT).

Summary document

R2-2102224 Summary document for AI 8.7.3 CATT discussion Rel-17 FS\_NR\_SL\_relay

The following documents will not be treated individually

[R2-2100100](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100100%20Remaining%20issues%20of%20Relay%20discovery%20and%20%28re%29selection.docx) Remaining issues of Relay discovery and (re)selection OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100126](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100126%20-%20Remaining%20issues%20on%20discovery%20and%20relay%20%28re%29selection.doc) Remaining issues on discovery and relay (re)selection Qualcomm Incorporated discussion Rel-17

[R2-2100152](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100152.docx) Proposal of items to be examined on discovery and relay (re-)selection for UE-to-UE relay in WI phase Mitsubishi Electric Co. discussion Rel-17

[R2-2100204](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100204%20Miscellaneouse%20Issues%20on%20Relay%20Discovery.docx) Miscellaneouse Issues on Relay Discovery CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100308](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100308%20Discussion%20on%20%20remaining%20issues%20for%20sidelink%20discovery.doc) Discussion on remaining issues for sidelink discovery ZTE Corporation discussion

[R2-2100522](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100522%20%28R17%20SL%20Relay%20SI%20AI873%20Discovery%29.doc) Discovery Procedure for sidelink relay InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100533](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100533%20-%20Remaining%20aspects%20for%20discovery.docx) Remaining aspects for discovery Ericsson discussion Rel-17 FS\_NR\_SL\_relay R2-2009228

[R2-2100534](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100534%20-%20Remaining%20aspects%20for%20relay%20selection%20and%20reselection.docx) Remaining aspects for relay (re)selection Ericsson discussion Rel-17 FS\_NR\_SL\_relay R2-2009229

[R2-2100624](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100624.docx) On SL discovery for relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100658](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100658%20Discussion%20on%20remaining%20issues%20on%20relay%20discovery.docx) Discussion on remaining issues on relay discovery Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100707](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100707_relay_reselection.doc) Relay reselection based on discovery Kyocera discussion Rel-17

[R2-2100726](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100726_discovery.doc) Relay discovery considerations Kyocera discussion Rel-17

[R2-2100804](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100804%20Discussion%20on%20sidelink%20relay%20discovery.doc) Discussion on sidelink relay discovery SHARP Corporation discussion

[R2-2100868](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100868%20Remaining%20isuse%20on%20SL%20relay%20discovery.doc) Discussion on remaining issues on relay discovery Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100924](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100924%20protocol%20stack%20for%20sidelink%20relay%20discovery%20message.doc) Protocol stack for discovery message Samsung Electronics discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100925](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100925%20Clarification%20on%20AS%20layer%20differentiation%20for%20discovery%20message.doc) Clarification on AS layer differentiation for discovery message Samsung Electronics discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100926](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100926%20discovery%20configuration%20for%20OOC%20remote%20UE.doc) Discovery configuration for Remote UE out of coverage Samsung Electronics discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101108](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101108%20Relay%20discovery%20in%20L2%20and%20L3%20relay%20case%20v2.0.doc) Relay Discovery in L2 and L3 relay case Lenovo, Motorola Mobility discussion Rel-17

[R2-2101181](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101181_Remaining%20issues%20of%20sidelink%20relay%20discovery%20procedure.doc) Remaining issues of sidelink relay discovery procedure vivo discussion Rel-17

[R2-2101211](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101211%20UE-to-Nwk%20Relay%20Discovery%20and%20%28Re%29selection%20for%20Path%20Switching.docx) UE-to-Nwk Relay Discovery and (Re)selection for Path Switching in SL Relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101597](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101597.doc) Discussion on relay discovery regarding non SL relay capable gNB Xiaomi communications discussion

[R2-2101624](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101624%20Relay%20discovery%20and%20%28re%29selection.docx) Relay discovery and (re)selection CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101783](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101783%20Discussion%20on%20the%20discovery%20procedure.docx) Discussion on the discovery procedure Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.4 Other

Including any remaining open issues on topics without separate agenda items.

This agenda item will use a summary document (OPPO).

Summary document

[R2-2102239](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2102239%20-%20Summary%20of%20AI%208.7.4_v2.2.docx) Summary document for AI 8.7.4 OPPO discussion

* [AT113-e][604][Relay] Issues from agenda item 8.7.4 (OPPO)

 Scope: Discuss the proposals from R2-2102239, determine what needs to be resolved in the study item phase, and converge on the critical proposals

 Intended outcome: Summary to be discussed in online session

 Deadline: Tuesday 2021-02-02 1200 UTC

The following documents will not be treated individually

[R2-2100109](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100109%20-%20Left%20issues%20on%20Scenario%20and%20L23%20accessment.docx) Left issues on Scenario and L23 accessment OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100123](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100123%20-%20Finalize%20the%20comparison%20and%20conclusion%20section%20of%20TR38836.doc) Finalize the comparison and conclusion section of TR 38.836 Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100171](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100171%20Discussion%20on%20Remote%20UEs%20in%20RRC%20Inactive.docx) Discussion on Remote UEs in RRC Inactive MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100205](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100205%20Further%20Clarification%20on%20the%20Sidelink%20Relay%20Scenario.docx) Further Clarification on the Sidelink Relay Scenario CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100309](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100309%20Comparison%20of%20L2%20and%20L3%20Relay.doc) Comparison of L2 and L3 Relay ZTE Corporation discussion

[R2-2100444](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100444%20Remote%20UE%20connectivity.docx) Remote UE connectivity MediaTek Inc. discussion Rel-17

[R2-2100523](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100523%20%28R17%20SL%20Relay%20SI%20AI874%20Relay%20selection%29.doc) Relay selection and reselection InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100550](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100550_Open_Issues_on_NR_Sidelink_Relaying.docx) Open Issues on NR Sidelink Relaying Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100616](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100616_SLRelayConclusions_Intel.docx) Conclusion on the feasibility of L2 and L3 based Sidelink Relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100625](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100625.docx) Further details on relay reselection Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100980](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100980-%20Comparative%20analysis%20of%20L2%20and%20L3%20SL%20Relay%20architecture.docx) Comparative analysis of L2 and L3 SL Relay architecture Ericsson, Samsung, Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101180](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101180_Consideration%20on%20Control%20Plane%20messages%20transmission%20path%20for%20remote%20UE.docx) Consideration on Control Plane messages transmission path for remote UE vivo, Philips, Lenovo, Motorola Mobility, AT&T discussion Rel-17

[R2-2101210](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101210%20SI%20acquisition%2C%20CN%20Registration%20and%20RNAU.doc) SI acquisition, CN Registration and RNAU Lenovo, Motorola Mobility discussion FS\_NR\_SL\_relay

[R2-2101325](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101325%20Support%20of%20idle%20mode%20mobility%20for%20remote-UE%20in%20SL%20U2N%20relay.docx) Support of idle mode mobility for remote-UE in SL UE-to-Nwk relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101453](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101453%20Providing%20Reliability%20and%20Coverage%20using%20Relays.doc) Providing Reliability and Coverage using Relays Lenovo, Motorola Mobility, Philips, AT&T, Fujitsu discussion FS\_NR\_SL\_relay

[R2-2101784](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101784%20Consideration%20on%20relay%20selection%20and%20reselection.docx) Consideration on relay selection and reselection Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101778](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101778.docx) Further consideration of relay selection and reselection criteria LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101785](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CDocs%5CR2-2101785.zip) Relay UE selection and reselection prioritization LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101788](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101788.docx) Relay reselection using discovery message and sidelink unicast link LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101890](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101890-discussion%20on%20RRC%20procedures%20of%20L2%20U2N%20relay.doc) discussion on RRC procedures of L2 U2N relay ETRI discussion Rel-17 FS\_NR\_SL\_relay

## 8.11 NR positioning enhancements SI

(FS\_NR\_pos\_enh; leading WG: RAN1; REL-17; WID: RP-202094)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

### 8.11.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

WI organisation

[R2-2100649](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100649%20Consideration%20on%20R17%20positioning%20WI%20Scope.docx) Consideration on R17 positioning WI Scope Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

TR management

[R2-2101387](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101387%20LS%20to%20capture%20TP%20for%20TR%2038.857.docx) draft LS to capture Text Proposal for TR 38.857 Ericsson LS out Rel-17 To:RAN1

[R2-2101388](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CDocs%5CR2-2101388.zip) Report on TR 38.857 Ericsson report Rel-17

### 8.11.2 Enhancements for commercial use cases

Scope and general discussion related to the RAN2 objective on enhancements to support high accuracy, low latency, network efficiency, and device efficiency for commercial use cases.

No documents should be submitted to 8.11.2. Please submit to 8.11.2.x.

#### 8.11.2.1 Latency analysis and latency enhancements

Including summary of [Post112-e][616][POS] TP for latency analysis results (Intel)

Including summary of [Post112-e][617][POS] Evaluation of latency enhancement solutions (CATT)

This agenda item will use a summary document (CATT).

Email discussion summaries

[R2-2100648](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100648%20Report%20of%20616%20E2E%20latency_V9%20Summary.docx) Report of [Post112-e][616][POS] TP for latency analysis results (Intel) Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100653](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100653%20TP%20on%20latency%20reduction.docx) TP of [Post112-e][616][POS] TP for latency analysis results (Intel) Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100407](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100407%20Summary%20of%20%5BPost112-e%5D%5B617%5D%5BPOS%5D%20Evaluation%20of%20latency%20enhancement%20solutions%20%28CATT%29.docx) Summary of [Post112-e][617][POS] Evaluation of latency enhancement solutions (CATT) CATT discussion Rel-17 FS\_NR\_pos\_enh

Summary document

[R2-2101950](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101950%20Summary%20of%20AI%208.11.2.1%20Latency%20analysis%20and%20latency%20enhancements.docx) Summary of AI 8.11.2.1 Latency analysis and latency enhancements CATT discussion Rel-17 FS\_NR\_pos\_enh Late

The following documents will not be treated individually

[R2-2100373](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100373%20%28R17%20NR%20POS%20A81121%29.doc) Discussion on Enhancements for Latency Reduction InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100683](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100683%20Discussion%20on%20A-PRS%20and%20semi-persistent%20PRS.docx) Discussion on A-PRS and semi-persistent PRS vivo discussion FS\_NR\_pos\_enh

[R2-2100685](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100685%20Discussion%20on%20latency%20enhancement%20for%20R17%20positioning.docx) Discussion on latency enhancement for R17 positioning vivo discussion FS\_NR\_pos\_enh

[R2-2100814](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100814%20Positioning%20enhancements%20on%20latency%20reduction.doc) Positioning enhancements on latency reduction Xiaomi discussion

[R2-2100869](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100869%20DIscussion%20on%20NR%20Positioning%20latency%20reduction.doc) Discussion on latency reduction for NR positioning enhancements Apple discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100933](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100933_PosLatencyReduction_LenMM.docx) On Positioning Latency Reduction Solutions Lenovo, Motorola Mobility discussion Rel-17

[R2-2101227](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101227%20Discussion%20on%20positioning%20latency.docx) Discussion on positioning latency Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101392](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101392%20Discussion%20on%20Latency%20Aspects.docx) Discussion on Latency Aspects Ericsson discussion Rel-17

[R2-2101469](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101469_%28latency%20enhancements%29.docx) Positioning Latency Reduction Qualcomm Incorporated discussion

[R2-2101870](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101870%20Latency%20discussions.docx) Discussion on latency reduction solutions Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101906](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101906%20%288.11.2.1%29%20latency%20reduction%20on%20measurement%20reporting%20via%20configured%20grant%20for%20positioning%20%20.docx) Latency reduction via configured grant for positioning Samsung R&D Institute UK discussion

[R2-2101907](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101907%20%288.11.2.1%29%20latency%20reduction%20via%20measurement%20gap%20signaling%20optimization%20v1.docx) Latency reduction via measurement gap signalling optimization Samsung R&D Institute UK discussion

[R2-2101921](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101921_positioning_discussion_on_local_LMF.docx) Discussion on local LMF ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101922](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101922_positioning_latency_reduction.docx) Discussion on latency reduction of NR positioning ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101923](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101923_positioning_latency_reduction_MO_LR_request_with_measurement_report.docx) Discussion on latency reduction of MO-LR ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

#### 8.11.2.2 Accuracy and efficiency enhancements

Including summary of [Post112-e][608][POS] Support of on-demand PRS (Ericsson)

Including summary of [Post112-e][609][POS] Positioning support in RRC\_IDLE/RRC\_INACTIVE (Huawei)

This agenda item will use a summary document (Intel).

Email discussion summaries

[R2-2101230](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101230%20%5BPost112-e%5D%5B609%5D%5BPOS%5D%20Positioning%20support%20in%20RRC_IDLE%20and%20INACTIVE%20%28Huawei%29.docx) [Post112-e][609][POS] Positioning support in RRC\_IDLE and INACTIVE (Huawei) Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101229](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101229%20TP%20for%20IDLE%20and%20INACTIVE%20postiioning.docx) TP for IDLE and INACTIVE postiioning Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101389](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101389%20Email%20Disc%20on-demand%20PRS.docx) Report on [Post112-e][608][POS] Support of on-demand PRS Ericsson report Rel-17

Summary document

[R2-2101545](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101545%20Summary%20for%20AI%208.11.2.2%20.docx) Summary for AI 8.11.2.2 on the accuracy and efficiency enhancements Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh Late

The following documents will not be treated individually

[R2-2100107](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100107%20-%20Discussion%20on%20on-demand%20DL-PRS.doc) Discussion on on-demand DL-PRS OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100108](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100108%20-%20Positioning%20in%20RRC_IDLE%20and%20RRC_INACTIVE%20state.docx) Positioning in RRC\_IDLE and RRC\_INACTIVE state OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100374](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100374%20%28R17%20NR%20POS%20A81122%29.doc) Discussion on Positioning in RRC Idle/Inactive mode InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100375](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100375%20%28R17%20NR%20POS%20A81122%29.doc) Discussion on On-demand reference signals for positioning InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100408](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100408%20Further%20Consideration%20on%20on-demand%20PRS.docx) Further considerations on on-demand PRS CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100409](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100409%20Further%20considerations%20on%20positioning%20in%20RRC_IDLERRC_INACTIVE.doc) Further considerations on positioning in RRC\_IDLE/RRC\_INACTIVE CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100650](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100650%20Support%20of%20positioning%20in%20idle%26inactive%20mode.docx) Support of positioning in idle/inactive mode Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh R2-2009002

[R2-2100651](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100651%20Support%20of%20on%20demand%20PRS.docx) Support of on demand PRS Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100673](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100673%20Discussion%20on%20positioning%20support%20in%20RRC_IDLE%20and%20INACTIVE.docx) Discussion on positioning support in RRC\_IDLE and INACTIVE Spreadtrum Communications discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100813](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100813%20Discussion%20on%20PRS%20enhancements.doc) Discussion on PRS enhancements Xiaomi discussion

[R2-2100815](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100815%20Positioning%20enhancements%20on%20RRC%20idle%20inactive%20UE.doc) Positioning enhancements on RRC idle inactive UE Xiaomi discussion

[R2-2100866](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100866%20DIscussion%20on%20NR%20Positioning%20accuracy%20enhancements%20.doc) Discussion on positioning accuracy and efficiency enhancements Apple discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100934](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100934_Inactive_Idle_Positioning_LenMM.docx) Positioning in RRC\_INACTIVE and RRC\_IDLE state Lenovo, Motorola Mobility discussion Rel-17

[R2-2100935](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100935_On-DemandPRS_LenMM.docx) On-Demand PRS Support Lenovo, Motorola Mobility discussion Rel-17

[R2-2101225](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101225%20Discussion%20on%20IDLE%20and%20INACTIVE%20positioning.docx) Discussion on IDLE and INACTIVE positioning Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101226](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101226%20Discussion%20on-demand%20PRS.docx) Discussion on-demand PRS Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101393](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101393%20on%20SDT%2C%20UL%20Positioning%20and%20On%20Demand%20PRS%20aspects.docx) SDT, UL Positioning and On Demand PRS Aspects Ericsson discussion Rel-17

[R2-2101470](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101470_%28Inactive%20Mode%20Positioning%29.docx) Positioning of UEs in RRC Idle/Inactive State Qualcomm Incorporated discussion

[R2-2101471](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101471_%28On-Demand%20PRS%29.docx) On-Demand PRS Qualcomm Incorporated discussion

[R2-2101868](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101868%20On-demand%20PRS%20suspension.docx) Enhancements on on-demand PRS transmissions Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101908](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101908%20%288.11.2.2%20%29%20support%20of%20positioning%20in%20idle%20inactive%20mode%20UE.docx) support of positioning in idle/inactive mode UE Samsung R&D Institute UK discussion

[R2-2101909](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101909%20%288.11.2.2%29%20consideration%20of%20on-demand%20PRS%20for%20POS_v1.docx) Support of on-demand PRS Samsung R&D Institute UK discussion

[R2-2101920](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101920_positioning_discussion_on_idle_inactive_mode_positioning.docx) Discussion on IDLE/INACTIVE mode positioning ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100916](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100916_Pos_Tech_1.0.docx) Considerations on potential positioning enhancements Sony discussion Rel-17 FS\_NR\_pos\_enh R2-2009897

[R2-2100684](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100684%20Discussion%20on%20positioning%20support%20in%20RRC_IDLE%20and%20RRC_INACTIVE%20states.docx) Discussion on positioning support in RRC\_IDLE and RRC\_INACTIVE states vivo discussion FS\_NR\_pos\_enh

### 8.11.3 Integrity and reliability of assistance data and position information

#### 8.11.3.1 General contributions

Including contributions on TP updating, and any remaining issues for KPIs, use cases, and error sources/threat models.

Including summary of [Post112-e][618][POS] Finalise integrity text proposals (Swift)

Email discussion summary

[R2-2100596](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CDocs%5CR2-2100596.zip) [Post112-e][618][POS] Finalise integrity text proposals Swift Navigation discussion

Other contributions

[R2-2100719](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100719%20Text%20Proposals%20of%20Definitions%20Relating%20to%20Positioning%20Integrity%20Modes.docx) Text Proposals of Definitions Relating to Positioning Integrity Modes Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101390](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101390%20RAT-dependent%20integrity.docx) On RAT-dependent integrity use cases and error categories Ericsson discussion Rel-17

[R2-2101504](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101504%20Recommendations%20for%20Integrity%20TP.docx) Recommendations for the Integrity Text Proposal Swift Navigation, Intel Corporation discussion

#### 8.11.3.2 Methodologies for network-assisted and UE-assisted integrity

This agenda item will use a summary document (ESA).

Summary document

[R2-2101436](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101436_Summary_of_AI_81132_Integrity_Methodologies.docx) Summary of AI 8.11.3.2 Methodologies for network-assisted and UE-assisted integrity ESA discussion Rel-17 FS\_NR\_pos\_enh Late

The following documents will not be treated individually

[R2-2100106](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100106%20-%20Discussion%20on%20Methodology%20for%20Integrity.docx) Discussion on Methodology for Integrity OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100376](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100376%20%28R17%20NR%20POS%20A81132%29.doc) Discussion on Methodologies for network-assisted & UE-assisted integrity InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100674](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100674.docx) Discussion on the methodologies for network-assisted and UE-assisted integrity Spreadtrum Communications discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100686](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100686%20Discussion%20on%20methodologies%20for%20network-assisted%20and%20UE-assisted%20integrity.docx) Discussion on methodologies for network-assisted and UE-assisted integrity vivo discussion FS\_NR\_pos\_enh

[R2-2100720](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100720%20Positioning%20Integrity%20Result%20Reporting.docx) Positioning Integrity Result Reporting Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100812](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2100812%20Discussion%20on%20methodologies%20for%20positioning%20integrity.doc) Discussion on methodologies for positioning integrity Xiaomi discussion

[R2-2101087](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101087.docx) UE Detection and Signalling of Percieved Threats to GNSS systems Fraunhofer IIS, Fraunhofer HHI discussion R2-2010135

[R2-2101228](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101228%20Discussion%20of%20network-assisted%20and%20UE-assisted%20integrity.docx) Discussion of network-assisted and UE-assisted integrity Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101391](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101391%20GNSS%20Integrity%20Methodologies.docx) GNSS Integrity Methodologies Ericsson discussion Rel-17

[R2-2101437](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202101-02%20-%20RAN2_113-e%2C%20Online%5CExtracts%5CR2-2101437%20Discussion%20on%20GNSS%20position%20integrity%20concepts.docx) Text Proposal to methodologies for GNSS position integrity ESA discussion Rel-17 38.857 FS\_NR\_pos\_enh