3GPP TSG-RAN WG2 Meeting #113bis-e R2-21xxxxx

Online, 12-20 April 2021

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.

* [AT113bis-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: Tuesday 2021-04-20 1800 UTC

* [AT113bis-e][601][POS] Positioning Corrections for R-15 and earlier (Huawei)

 Scope: Discuss and conclude on the following documents:

* R2-2102916 (field description of commonIEsProvideAssistanceData)
* R2-2102917/ R2-2102918 (posSI acquisition)
* R2-2103216/ R2-2103217/ R2-2103218 (SUPL support)
	+ Cross-check with discussion [602] for consistency with R2-2103219/R2-2103220
* R2-2103604/ R2-2103605/R2-2103606/R2-2103607/R2-2103608/R2-2103609/R2-2103610/R2-2103616/R2-2102987 (need codes)

 Intended outcome: Agreed CRs

 Deadline: Friday 2021-04-16 1000 UTC

* [AT113bis-e][602][POS] Positioning corrections for NR Rel-15 (Samsung)

 Scope: Discuss and conclude on R2-2103219/R2-2103220 on SUPL support

 Intended outcome: Agreed CRs

 Deadline: Friday 2021-04-16 1000 UTC

* [AT113bis-e][603][Relay] Proposals from summary of agenda item 8.7.4.1 (ZTE)

 Scope: Continue discussion of the summary of AI 8.7.4.1 and try to reach agreeable proposals.

 Intended outcome: Report in R2-2104405

 Deadline: Friday 2021-04-16 1000 UTC

* [AT113bis-e][604][Relay] Proposals from summary of agenda item 8.7.4.2 (Futurewei)

 Scope: Continue discussion of the summary of AI 8.7.4.2 and try to reach agreeable proposals.

 Intended outcome: Report in R2-2104406

 Deadline: Friday 2021-04-16 1000 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.

* [AT113bis-e][601][POS] Positioning Corrections for R-15 and earlier (Huawei)

 Scope: Discuss and conclude on the following documents:

* R2-2102916 (field description of commonIEsProvideAssistanceData)
* R2-2102917/ R2-2102918 (posSI acquisition)
* R2-2103216/ R2-2103217/ R2-2103218 (SUPL support)
	+ Cross-check with discussion [602] for consistency with R2-2103219/R2-2103220
* R2-2103604/ R2-2103605/R2-2103606/R2-2103607/R2-2103608/R2-2103609/R2-2103610/R2-2103616/R2-2102987 (need codes)

 Intended outcome: Agreed CRs

 Deadline: Friday 2021-04-16 1000 UTC

[R2-2102916](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5C36355_CR0250_%28Rel-14%29_R2-2102916.docx) Corrections on the field description of commonIEsProvideAssistanceData in TS36.355 CATT, Huawei, HiSilicon CR Rel-14 36.355 14.7.0 0250 - F LTE\_feMTC-Core

[R2-2102917](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5C36331_CR4611_%28Rel-15%29_R2-2102917.docx) Corrections on the acquisition of a posSI message CATT CR Rel-15 36.331 15.13.0 4611 - F LCS\_LTE\_acc\_enh-Core

[R2-2102918](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5C36331_CR4612_%28Rel-16%29_R2-2102918.docx) Corrections on the acquisition of a posSI message CATT CR Rel-16 36.331 16.4.0 4612 - A LCS\_LTE\_acc\_enh-Core

[R2-2103216](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103216.docx) Correction on SUPL support of positioning methods Samsung CR Rel-14 36.305 14.3.0 0100 - F UTRA\_LTE\_iPos\_enh2-Core

[R2-2103217](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103217.docx) Correction on SUPL support of positioning methods Samsung CR Rel-15 36.305 15.5.0 0101 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2103218](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103218.docx) Correction on SUPL support of positioning methods Samsung CR Rel-16 36.305 16.2.0 0102 - A UTRA\_LTE\_iPos\_enh2-Core

R2-2103603 Correction to need code for DL LPP message-R16 Huawei, HiSilicon CR Rel-16 37.355 16.4.0 0297 - F NR\_pos-Core, NR\_newRAT-Core, LCS\_LTE\_acc\_enh-Core, NB\_IOTenh-Core, LTE\_feMTC-Core, LCS\_BDS-LTE-Core, LCS\_LTE Withdrawn

[R2-2103604](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103604%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R15.doc) Correction to need code for DL LPP message-R15 Huawei, HiSilicon CR Rel-15 37.355 15.1.0 0298 - F NR\_newRAT-Core, LCS\_LTE\_acc\_enh-Core, NB\_IOTenh-Core, LTE\_feMTC-Core, LCS\_BDS-LTE-Core, LCS\_LTE

[R2-2103605](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103605%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R14.doc) Correction to need code for DL LPP message-R14 Huawei, HiSilicon CR Rel-14 36.355 14.7.0 0251 - F NB\_IOTenh-Core, LTE\_feMTC-Core, LCS\_BDS-LTE-Core, LCS\_LTE

[R2-2103606](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103606%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R13.doc) Correction to need code for DL LPP message-R13 Huawei, HiSilicon CR Rel-13 36.355 13.3.0 0252 - A LCS\_BDS-LTE-Core, LCS\_LTE

[R2-2103607](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103607%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R12.doc) Correction to need code for DL LPP message-R12 Huawei, HiSilicon CR Rel-12 36.355 12.5.0 0253 - F LCS\_BDS-LTE-Core, LCS\_LTE

[R2-2103608](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103608%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R11.doc) Correction to need code for DL LPP message-R11 Huawei, HiSilicon CR Rel-11 36.355 11.6.0 0254 - A LCS\_LTE

[R2-2103609](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103609%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R10.doc) Correction to need code for DL LPP message-R10 Huawei, HiSilicon CR Rel-10 36.355 10.12.0 0255 - A LCS\_LTE

[R2-2103610](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103610%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R9.doc) Correction to need code for DL LPP message-R9 Huawei, HiSilicon CR Rel-9 36.355 9.14.0 0256 - F LCS\_LTE

[R2-2103616](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103616%20Correction%20to%20need%20code%20for%20DL%20LPP%20message-R16.doc) Correction to need code for DL LPP message-R16 Huawei, HiSilicon CR Rel-16 37.355 16.4.0 0292 1 F NR\_pos-Core, NR\_newRAT-Core, LCS\_LTE\_acc\_enh-Core, NB\_IOTenh-Core, LTE\_feMTC-Core, LCS\_BDS-LTE-Core, LCS\_LTE R2-2101827

# 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.

NOTE: FOR R2#113bis-e it is expected that ~30% of the input tdocs under this AI will be selected for initial postponement to the next meeting.

## 5.5 Positioning corrections

Corrections to both the stage 2 and stage 3 aspects related to positioning. Stage 2 CRs 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.

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

* [AT113bis-e][602][POS] Positioning corrections for NR Rel-15 (Samsung)

 Scope: Discuss and conclude on R2-2103219/R2-2103220 on SUPL support

 Intended outcome: Agreed CRs

 Deadline: Friday 2021-04-16 1000 UTC

[R2-2103219](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103219.docx) Correction on SUPL support of positioning methods Samsung CR Rel-15 38.305 15.8.0 0070 - F UTRA\_LTE\_iPos\_enh2-Core

[R2-2103220](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103220.docx) Correction on SUPL support of positioning methods Samsung CR Rel-16 38.305 16.4.0 0071 - A UTRA\_LTE\_iPos\_enh2-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: 30 tdocs in total for all sub agenda items, or the restriction for each sub-AI, whichever is more restrictive.

NOTE: FOR R2#113bis-e it is expected that ~30% of the input tdocs under this AI will be selected for initial postponement to the next meeting.

## 6.3 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: 7 tdocs, See also tdoc limitation for Agenda Item 6

### 6.3.1 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).

Summary document

R2-2104018 Summary of agenda item 6.3.1 - REL-16 NR Positioning Stage 2 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core Late

The following documents will not be individually treated

[R2-2103922](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103922%20UE%20PFL.docx) UE handling of Positioning Frequency Layer Ericsson CR Rel-16 38.305 16.4.0 0060 1 F NR\_pos-Core R2-2101385

[R2-2104046](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104046%20Correction%20to%20NR%20stage2%20spec%20for%20MO-LR.DOC) Correction to NR stage2 spec for MO-LR Huawei, HiSilicon CR Rel-16 38.305 16.4.0 0072 - F NR\_pos-Core

R2-2104047 Correction to LTE stage2 spec for MO-LR Huawei, HiSilicon CR Rel-16 36.305 16.2.0 0103 - F LCS\_LTE, TEI16 Withdrawn

[R2-2104048](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104048%20Correction%20to%205G%20support%20for%20NB-IOT%20positioning.doc) Correction to 5G support for NB-IOT positioning Huawei, HiSilicon CR Rel-16 38.305 16.4.0 0069 1 F NR\_pos-Core R2-2101929

### 6.3.2 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).

Summary document

R2-2103920 Summary for RRC NR Positioning Ericsson discussion Late

The following documents will not be individually treated

[R2-2102924](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5C38331_CR2490_%28Rel-16%29_R2-2102924.docx) Corrections on the description of SRS-Config CATT CR Rel-16 38.331 16.4.1 2490 - F NR\_pos-Core

[R2-2103849](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103849_38.331CR_r16_posSI_offset.docx) Correction on the SI offset usage of posSI Scheduling Apple CR Rel-16 38.331 16.4.1 2539 - F NR\_pos-Core

[R2-2103919](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103919%20Same%20posSIB.docx) Same posSIB-Type in multiple SI messages Ericsson discussion

[R2-2104175](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104175%20%286.3.2%29%20CR%20on%20POS%20si%20config%20SUL.docx) Correction on posSI-RequestConfig and posSI-RequestConfigSUL field description Samsung R&D Institute UK CR Rel-16 38.331 16.4.1 2559 - F NR\_pos-Core

### 6.3.3 LPP corrections

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

Summary document

R2-2103129 Summary of AI 6.3.3 LPP corrections CATT discussion Rel-16 37.355 NR\_pos-Core Late

The following documents will not be individually treated

[R2-2102786](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102786%20%20Draft%20CR%20on%20timestamp%20reference%20in%20NR%20positioning%20measurement%20report.docx) 37.355 Draft CR on timestamp reference in NR positioning measurement report vivo draftCR Rel-16 37.355 16.4.0 NR\_pos-Core

[R2-2102920](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5C37355_CR0294_%28Rel-16%29_R2-2102920.docx) Corrections on the field description of NR-AdditionalPathList and DL-PRS positioning frequency layer related parameters CATT CR Rel-16 37.355 16.4.0 0294 - F NR\_pos-Core

[R2-2102921](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5C37355_CR0295_%28Rel-16%29_R2-2102921.docx) Corrections on NR-Multi-RTT-RequestAssistanceData CATT CR Rel-16 37.355 16.4.0 0295 - F NR\_pos-Core

R2-2102922 Corrections on the need code of segmentationInfo within CommonIEsRequestLocationInformation and CommonIEsProvideAssistanceData CATT CR Rel-16 37.355 16.4.0 0296 - F NR\_pos-Core Late

[R2-2102987](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102987_LPP_missing_need_codes.doc) Considerations on missing need codes in LPP Lenovo, Motorola Mobility discussion Rel-16 NR\_pos-Core

[R2-2103921](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103921%20PFLGap.docx) LPP Layer interaction with lower layers for Positioning Frequency layer and Measurement Gap Ericsson CR Rel-16 37.355 16.4.0 0288 2 F NR\_pos-Core R2-2102123

[R2-2103923](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103923%20granularExp.docx) Need of compact expirationTime Indication Ericsson discussion

[R2-2103924](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103924%20fieldname.docx) Correction of field description name Ericsson CR Rel-16 37.355 16.4.0 0299 - F NR\_pos-Core

[R2-2104049](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104049%20Correction%20to%20PRS%20configuration.doc) Correction to PRS configuration Huawei, HiSilicon CR Rel-16 37.355 16.4.0 0300 - F NR\_pos-Core

[R2-2104050](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104050%20Correction%20to%20the%20uplink%20LPP%20message.doc) Correction to the uplink LPP message Huawei, HiSilicon CR Rel-16 37.355 16.4.0 0301 - F NR\_pos-Core

[R2-2104051](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104051%20Correction%20to%20DL-PRS%20capability.doc) Correction to DL-PRS capability Huawei, HiSilicon CR Rel-16 37.355 16.4.0 0302 - F NR\_pos-Core

[R2-2104052](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104052%20Correction%20on%20positioning%20error%20reporting.doc) Correction on positioning error reporting Huawei, HiSilicon CR Rel-16 37.355 16.4.0 0303 - F NR\_pos-Core

[R2-2104269](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104269_CR_37355_additionalPaths.docx) Correction on the field description of additionPaths ZTE Corporation, Sanechips CR Rel-16 37.355 16.4.0 0304 - F NR\_pos-Core

### 6.3.4 MAC corrections

[R2-2102923](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5C38321_CR1072_%28Rel-16%29_R2-2102923.docx) Corrections on SP Positioning SRS Activation and Deactivation MAC CE CATT CR Rel-16 38.321 16.4.0 1072 - F NR\_pos-Core

* Revised in R2-2104504

R2-2104504 Corrections on SP Positioning SRS Activation and Deactivation MAC CE CATT CR Rel-16 38.321 16.4.0 1072 - F NR\_pos-Core

# 7 Rel-16 EUTRA Work Items

Essential corrections

## 7.5 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.

[R2-2104264](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104264%20Correction%20to%20LTE%20stage2%20spec%20for%20MO-LR.DOC) Correction to LTE stage2 spec for MO-LR Huawei, HiSilicon CR Rel-16 36.305 16.2.0 0104 - F LCS\_LTE, TEI16

# 8 Rel-17 NR Work Items

## 8.7 NR Sidelink relay SI

(NR\_XYZ\_enh-Core; leading WG: RAN2; REL-17; WID: RP-210904)

Time budget: 1.5 TU

Tdoc Limitation: 5 tdocs

Email max expectation: 4-5 threads

Focus for this meeting: Progress the common topics on relay discovery and re/selection (including identification of the potential AS re/selection criteria other than signal strength), and understand dependencies on other groups.

### 8.7.1 Organizational

TS updates, rapporteur inputs. Documents in this AI do not count towards the tdoc limitation.

[R2-2102890](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102890%20-%20Work%20planning%20for%20R17%20SL%20relay-rm1.docx) Work planning for R17 SL relay OPPO, CMCC Work Plan Rel-17

=> Revised in R2-2104299

R2-2104299 Work planning for R17 SL relay OPPO, CMCC Work Plan Rel-17

### 8.7.2 Relay discovery

Re-using LTE discovery as baseline.

Summary document

R2-2104297 Summary of 8.7.2 relay discovery Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core

The following documents will not be individually treated

[R2-2102687](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102687%20-%20Discussion%20on%20relay%20discovery.doc) Discussion on relay discovery Qualcomm Incorporated discussion

[R2-2102698](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102698_Discovery%20for%20Sidelink%20U2N%20Relay.docx) Discovery for Sidelink U2N Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102806](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102806%20%28R17%20SL%20Relay%20SI%20AI872%20Discovery%29.doc) Discovery Procedure for sidelink relay InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102978](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102978%20Discussion%20on%20Relay%20discovery%20in%20Sidelink%20Relay.doc) Discussion on Relay discovery in Sidelink Relay ZTE Corporation, Sanechips discussion Rel-17

[R2-2103000](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103000%20-%20Left%20issues%20for%20SL%20discovery.docx) Left issues for SL discovery Ericsson discussion Rel-17

[R2-2103006](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103006%20Discussion%20on%20NR%20sidelink%20relay%20disovery.docx) Discussion on NR sidelink relay discovery OPPO discussion Rel-17

[R2-2103010](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103010%20NR%20SL%20Relaying%20Discovery.docx) NR Sidelink Relaying Discovery Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2103071](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103071.docx) SL Relay Discovery Aspects Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2103085](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103085%20SL%20relay%20discovery%20message.doc) SL relay discovery message Samsung discussion Rel-17

[R2-2103205](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103205%20Discussion%20on%20sidelink%20relay%20discovery.doc) Discussion on sidelink relay discovery SHARP Corporation discussion

[R2-2103227](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103227_disc_pool.doc) Discovery resources for sidelink relaying Kyocera discussion Rel-17

[R2-2103229](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103229_discovery.doc) Relay discovery considerations Kyocera discussion Rel-17

[R2-2103236](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103236%20Discussion%20on%20relay%20discovery.docx) Discussion on relay discovery Spreadtrum Communications discussion Rel-17

[R2-2103323](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103323_Discussion%20on%20Relay%20Discovery%20Procedure.docx) Discussions on Relay discovery procedure vivo discussion Rel-17

[R2-2103389](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103389%20Relay%20Discovery%20in%20L2%20and%20L3%20U2N%20relay%20v2.0.doc) Relay Discovery in L2 and L3 U2N relay Lenovo, Motorola Mobility discussion Rel-17

[R2-2103424](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103424-%20Sidelink%20Relay%20Discoveryv2.docx) Sidelink Relay Discovery, Open Issues Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2103493](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103493%20Support%20of%20discovery%20for%20sidelink%20relay_v2.docx) Support of discovery for sidelink relay Huawei, HiSilicon discussion Rel-17

[R2-2103498](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103498%20Restricted%20Sidelink%20Relay%20Discovery%20Within%20Sidelink%20Groupcast.docx) Restricted Sidelink Relay Discovery Within Sidelink Groupcast Nokia Germany discussion Rel-17 FS\_NR\_SL\_relay

[R2-2103575](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103575%20On%20Relay%20Discovery.docx) On relay discovery MediaTek Inc. discussion Rel-17

[R2-2103856](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103856%20PC5%20Radio%20link%20quality%20evaluation.doc) Evaluation of PC5 link quality based on relay discovery Apple discussion

[R2-2103992](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103992.docx) Discovery message transmission LG Electronics Inc. discussion

### 8.7.3 Relay re/selection

Re-using LTE re/selection as baseline. Including potential AS criteria for re/selection.

Summary document

R2-2104287 Summary of Agenda Item 8.7.3 (relay selection/reselection) Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

The following documents will not be individually treated

[R2-2102692](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102692%20-%20Discussion%20on%20relay%20%28re%29selection.doc) Discussion on relay (re)selection Qualcomm Incorporated discussion

[R2-2102699](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102699_Sidelink%20Relay%20%28Re%29Selectoin.docx) Sidelink Relay (Re)Selection CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102807](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102807%20%28R17%20SL%20Relay%20SI%20AI873%20Relay%20selection%29.doc) Relay selection and reselection InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102960](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102960%20Further%20considerations%20on%20relay%20%28re%29selection%20-%20final.docx) Further considerations on relay (re)selection ETRI discussion

[R2-2102977](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102977%20Discussion%20on%20Relay%20selection%20in%20Sidelink%20Relay.doc) Discussion on Relay selection in Sidelink Relay ZTE Corporation, Sanechips discussion Rel-17

[R2-2103001](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103001%20-%20Aspects%20for%20SL%20relay%20selection%20and%20reselection.docx) Aspects for SL relay selection and reselection Ericsson discussion Rel-17

[R2-2103007](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103007%20Discussion%20on%20NR%20sidelink%20relay%20UE%20%28re-%29selection.docx) Discussion on NR sidelink relay (re-)selection OPPO discussion Rel-17

[R2-2103009](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103009-NR%20Sidelink%20Relay%20%28Re-%29Selection.docx) NR Sidelink Relay (Re-)Selection Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2103086](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103086%20SL%20relay%20selection%20and%20reselection%20triggering%20criteria.doc) SL relay selection and reselection triggering criteria Samsung discussion Rel-17

[R2-2103237](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103237%20Discussion%20on%20relay%20selection%20and%20reselection.doc) Discussion on relay selection and reselection Spreadtrum Communications discussion Rel-17

[R2-2103311](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103311%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 R2-2101211

[R2-2103324](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103324_Discussion%20on%20Relay%20%28re-%29selection%20procedure.docx) Discussions on Relay (re-)selection procedure vivo discussion Rel-17

[R2-2103390](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103390%20Relay%20%28re%29selection%20for%20L2%20and%20L3%20U2N%20case_v1.1.doc) Relay (re)selection for L2 and L3 U2N case Lenovo, Motorola Mobility discussion Rel-17

[R2-2103422](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103422-Sidelink%20Relay%20Reselection.docx) Sidelink Relay Reselection and Selection, proposal for outline procedure Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2103423](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103423%20NR%20sidelink%20relay%20%28re%29selection.docx) NR sidelink relay (re)selection MediaTek Inc. discussion

[R2-2103584](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103584.doc) Relay (re)selection Sony Europe B.V. discussion Rel-17

[R2-2103667](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103667%20RelaySelection.docx) Discussion on relay selection and reselection Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2103717](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103717%20Consideration%20on%20Relay%20selection%20and%20reselection.docx) Consideration on Relay selection and reselection CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2103739](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103739_Relay_selection_Intel.docx) Discussion on SL Relay (re)selection Intel Corporation discussion Rel-17

[R2-2103884](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103884_sidelink%20relay%20reselection.docx) Discussion on sidelink relay (re)selection Apple discussion Rel-17

[R2-2103993](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103993.docx) Relay UE selection criterion using SL-unicast and discovery message LG Electronics Inc. discussion Rel-17

[R2-2103994](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103994.docx) Relay (re-)selection and path switching LG Electronics Inc. discussion Rel-17

[R2-2103995](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103995.docx) Discovery message contents and relay selection criteria LG Electronics Inc. discussion Rel-17

[R2-2104130](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104130.docx) Discussion on relay selection and reselection Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2104262](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104262%20-%20Relay%20UE%20load%20as%20an%20additional%20AS%20criterion%20for%20relay%20%28re-%29selection.docx) Relay UE load as an additional AS criterion for relay (re-)selection Philips International B.V. discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.4 L2 relay specific topics

No documents should be submitted to 8.7.4. Please submit to 8.7.4.x.

#### 8.7.4.1 Control plane procedures

Including connection management, SI delivery, paging, access control for remote UE. Connection management topics will be prioritised.

Summary document

R2-2104503 Summary document of AI 8.7.4.1 ZTE discussion

* [AT113bis-e][603][Relay] Proposals from summary of agenda item 8.7.4.1 (ZTE)

 Scope: Continue discussion of the summary of AI 8.7.4.1 and try to reach agreeable proposals.

 Intended outcome: Report in R2-2104405

 Deadline: Friday 2021-04-16 1000 UTC

The following documents will not be individually treated

[R2-2102693](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102693%20-%20RRC%20management%20procedures%20of%20L2%20U2N%20relay.doc) RRC management procedures of L2 U2N relay Qualcomm Incorporated discussion

[R2-2102695](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102695%20-%20System%20information%20paging%20delivery%20and%20UAC%20in%20L2%20U2N%20relay.doc) System information, paging delivery and UAC in L2 U2N relay Qualcomm Incorporated discussion

[R2-2102700](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102700%20Control%20Plane%20Procedures%20of%20L2%20Relay.docx) Control Plane Procedures of L2 Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102701](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102701_Service%20Continuity%20for%20L2%20U2N%20Relay.docx) Service Continuity for L2 U2N Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

R2-2102747 Discussion on Control Plane Aspects for L2 Relay OPPO discussion Rel-17 Late

[R2-2102779](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102779%20Connection%20establishment%20for%20L2%20UE-to-Network%20Relay.docx) Connection establishment for L2 UE-to-Network Relay MediaTek Inc. discussion Rel-17

[R2-2102780](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102780%20Further%20details%20on%20System%20Information%20Delivery.docx) Further details on System Information Delivery MediaTek Inc. discussion Rel-17

[R2-2102809](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102809%20%28R17%20SL%20Relay%20SI_AI8741%20Connection_management%29.doc) Connection Management for L2 UE to NW Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102810](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102810%20%28R17%20SL%20Relay%20SI_AI8741%20CP%20Procedures%29.doc) Control Plane Procedures for L2 UE to NW Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102891](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102891%20-%20Left%20issues%20on%20RRC%20procedure%20for%20L2%20U2N%20Relay.docx) Left issues on RRC procedure for L2 U2N Relay OPPO discussion Rel-17

[R2-2102968](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102968%20Connection%20control%20on%20L2%20relay.doc) Connection on L2 relay Xiaomi communications discussion

[R2-2102969](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102969%20Discussion%20on%20resource%20allocation%20for%20remote%20UE.doc) Discussion on resouce allocation for remote UE Xiaomi communications discussion

[R2-2102974](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102974%20The%20connection%20management%20of%20SL%20relay.doc) The connection management of SL relay ZTE Corporation, Sanechips discussion Rel-17

[R2-2102975](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102975%20Discussion%20on%20system%20information%20paging%20and%20access%20control.doc) Discussion on system information paging and access control ZTE Corporation, Sanechips discussion Rel-17

[R2-2103087](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103087%20Connection%20management%20in%20L2%20U2N%20relay.doc) Connection management in L2 U2N relay Samsung discussion Rel-17

[R2-2103088](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103088%20System%20information%20delivery%20via%20relay%20UE.doc) System information delivery via relay UE Samsung discussion Rel-17

[R2-2103203](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103203%20U2N%20connection%20establishment.docx) UE to Network Relay Connection Establishment Futurewei discussion Rel-17

[R2-2103231](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103231_L2_relaying.doc) RRC state transitions in L2 relaying Kyocera discussion Rel-17

[R2-2103310](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103310%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 R2-2101325

[R2-2103325](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103325_RRC%20Connection%20Management%20for%20L2%20relay.docx) RRC Connection Management for L2 relay vivo discussion Rel-17

[R2-2103326](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103326_Control%20Plane%20procedure%20for%20L2%20SL%20Relay.docx) Control Plane procedure for L2 SL Relay vivo discussion Rel-17

[R2-2103328](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103328_Discussion%20on%20L2%20and%20L3%20relay%20co-existence.docx) Discussions on L2 and L3 relay co-existence vivo discussion Rel-17

[R2-2103458](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103458%20Discussion%20on%20RRC%20procedures%20for%20U2N%20Relay.docx) Discussion on RRC procedures for U2N Relay ASUSTeK discussion Rel-17

[R2-2103482](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103482%20SIB%20Handling%20in%20Sidelink%20UE-to-Nwk%20Relay.docx) SIB Handling in Sidelink UE-to-Nwk Relay Nokia Germany discussion Rel-17 FS\_NR\_SL\_relay

[R2-2103662](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103662-%20Discussion%20on%20control%20plane%20procedures%20for%20L2%20sidelink%20relay.docx) Discussion on control plane procedures for L2 sidelink relay Ericsson discussion Rel-17

[R2-2103663](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103663-%20Discussion%20on%20service%20continuity%20for%20L2%20sidelink%20relay.docx) Discussion on service continuity for L2 sidelink relay Ericsson discussion Rel-17

[R2-2103718](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103718%20System%20information%20delivery%20for%20L2%20U2N%20Relay.docx) System information delivery for L2 U2N Relay CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2103738](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103738_SLRelay_ControlPlane_Intel.docx) Control plane procedures for L2 U2N relaying Intel Corporation discussion Rel-17

[R2-2103742](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103742%20Monitoring%20Paging%20by%20a%20U2N%20Relay.doc) Monitoring Paging by a U2N Relay Lenovo, Motorola Mobility discussion Rel-17

[R2-2103744](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103744%20SI%20acquisition%2C%20CN%20Registration%20and%20RNAU.doc) SI acquisition, CN Registration and RNAU Lenovo, Motorola Mobility discussion

[R2-2103857](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103857%20QOS%20for%20Layer%202%20UE-to-NW%20relay.doc) Discussion on QoS mechanism for Layer 2 UE-to-NW relay Apple discussion

[R2-2103956](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103956%20-%20SL%20Relay%20CP.docx) Control plane multi-connectivity for NR Sidelink Relay UE AT&T discussion

[R2-2103996](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103996.docx) L2 relay QoS handling procedure LG Electronics Inc. discussion Rel-17

R2-2104126 Service continuity of L2 U2N relay Qualcomm communications-France discussion Late

[R2-2104131](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104131.docx) Discussion on the CP procedures for L2 Relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2104132](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104132.docx) Discussion on path switch for L2 UE to NW Relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2104245](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104245-discussion%20on%20Paging%20and%20SI%20delivery.doc) discussion on Paging and SI delivery for L2 U2N relay ETRI discussion Rel-17

#### 8.7.4.2 Protocol architecture

Including protocol stack aspects and functions of the adaptation layer. This AI will be treated on a time-available basis, prioritising any topics that may require coordination with other groups.

Summary document

* [AT113bis-e][604][Relay] Proposals from summary of agenda item 8.7.4.2 (Futurewei)

 Scope: Continue discussion of the summary of AI 8.7.4.2 and try to reach agreeable proposals.

 Intended outcome: Report in R2-2104406

 Deadline: Friday 2021-04-16 1000 UTC

The following documents will not be individually treated

[R2-2102694](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102694%20-%20Adaptation%20layer%20and%20E2E%20QoS%20management%20of%20L2%20U2N%20relay.doc) Adaptation layer and E2E QoS handling of L2 U2N relay Qualcomm Incorporated discussion

[R2-2102702](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102702_Study%20on%20Adaption%20Layer%20for%20L2%20U2N%20Relay.docx) Study on the Adaption Layer for L2 U2N Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2102781](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102781%20Adaptation%20layer%20for%20PC5%20at%20L2%20UE-to-Network%20Relay.docx) Adaptation layer for PC5 at L2 UE-to-Network Relay MediaTek Inc. discussion Rel-17

[R2-2102808](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102808%20%28R17%20SL%20Relay%20WI_AI8742%20Protocol%20Architectures%29%20.doc) Discussion on L2 Relay Architecture and QoS InterDigital discussion Rel-17 FS\_NR\_SL\_relay

R2-2102892 Left issues on adaptation layer for L2 U2N Relay OPPO discussion Rel-17 Late

[R2-2102976](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102976%20Discussion%20on%20SL%20relay%20protocol%20architecture.doc) Discussion on SL relay protocol architecture ZTE Corporation, Sanechips discussion Rel-17

[R2-2103002](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103002%20-UP%20aspects%20on%20Layer%202%20SL%20relay.docx) UP aspects for Layer 2 SL relay Ericsson discussion Rel-17

[R2-2103235](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103235.doc) Discussion on L2 Relay Architecture and QoS Spreadtrum Communications discussion Rel-17

[R2-2103327](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103327_Adaptation%20Layer%20for%20L2%20SL%20Relay.docx) Adaptation Layer for L2 SL Relay vivo discussion Rel-17

[R2-2103459](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103459%20Discussion%20on%20presence%20of%20adaptation%20layer%20header%20for%20U2N%20Relay.docx) Discussion on presence of adaptation layer header for U2N Relay ASUSTeK discussion Rel-17

[R2-2103494](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103494%20Adaptation%20layer%20functionalities%20for%20L2%20U2N%20relay_v3.docx) Adaptation layer functionalities for L2 U2N relay Huawei, HiSilicon discussion Rel-17

[R2-2103514](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103514%20Adaptation%20layer%20and%20other%20protocol%20stack%20aspects%20for%20L2%20relaying%20-r2.doc) Adaptation layer and other protocol stack aspects for L2 relaying Samsung Electronics GmbH discussion

[R2-2103719](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103719%20PC5%20adaption%20layer%20for%20L2%20U2N%20relay.docx) PC5 adaption layer for L2 U2N relay CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2103720](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103720%20Consideration%20on%20Uu%20adaption%20layer.docx) Consideration on Uu adaption layer CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2103737](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103737_SLRelay_adaptation_layer_Intel.docx) Adaptation layer design for L2 U2N relaying Intel Corporation discussion Rel-17

## 8.11 NR positioning enhancements

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

Time budget: 1.5 TU

Tdoc Limitation: 5 tdocs

Email max expectation: 5-6 threads

Support for BDS B2a, BDS B3I signal and support for NavIC to NR is postponed to a later meeting. Input on this is not expected. Further instructions may be added to this version.

### 8.11.1 Organizational

Rapporteur input. Incoming LS etc. This AI is reserved for rapporteur and organizational inputs; documents in this AI do not count towards the tdoc limitation.

[R2-2102959](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102959%20NR_POS_WP_v08.docx) Work plan on Rel-17 positioning Work item Intel Corporation, CATT, Ericsson discussion Rel-17 NR\_pos\_enh

R2-2102665 LS on Scheduling Location in Advance to reduce Latency (S2-2102048; contact: Qualcomm) SA2 LS in Rel-17 5G\_eLCS\_ph2 To:RAN1, RAN2 Cc:RAN3

### 8.11.2 Latency

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

R2-2104498 Summary of Agenda Item 8.11.2: Positioning Latency Enhancements Qualcomm Incorporated discussion

The following documents will not be individually treated

[R2-2102789](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102789%20Discussion%20on%20latency%20enhancement%20for%20R17%20positioning.docx) Discussion on latency enhancement for R17 positioning vivo discussion FS\_NR\_pos\_enh

[R2-2102849](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102849.docx) Consideration on latency reduction solutions Intel Corporation discussion Rel-17 NR\_pos\_enh

[R2-2102925](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102925%20Consideration%20on%20Latency%20Optimization%20of%20Assistance%20Data.docx) Consideration on Latency Optimization of Assistance Data CATT discussion Rel-17 NR\_pos\_enh

[R2-2103131](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103131%20Positioning%20enhancements%20on%20latency%20reduction.doc) Positioning enhancements on latency reduction Xiaomi discussion

[R2-2103144](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103144%20Consideration%20of%20the%20latency%20reduction%20regarding%20the%20scheduling%20the%20localization%20in%20advance.doc) Consideration of the latency reduction regarding the scheduling the localization in advance OPPO discussion Rel-17

[R2-2103382](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103382_PosLatencyReduction_LenMM.docx) Positioning Latency Reduction Enhancements Lenovo, Motorola Mobility discussion Rel-17

[R2-2103541](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103541%20Discussion%20on%20positioning%20latency.docx) Discussion on positioning latency Huawei, HiSilicon discussion Rel-17

[R2-2103614](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103614_Pos_latency_Final.docx) Considerations on positioning latency Sony Europe B.V. discussion Rel-17

[R2-2103785](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103785%20%28R17%20NR%20POS%20WI_AI8112_Latency%29.doc) Enhancements for Latency Reduction InterDigital, Inc. discussion Rel-17 NR\_pos\_enh

[R2-2103898](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103898_%28Scheduling%20in%20Advance%29.docx) Scheduling Location in Advance to reduce Latency Qualcomm Incorporated discussion

[R2-2103899](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103899_%28Response%20LS%20to%20SA2%20on%20scheduling%20location%20in%20advance%29.docx) [draft] Response LS on Scheduling Location in Advance to reduce Latency Qualcomm Incorporated LS out To:SA2 Cc:RAN1, RAN3

[R2-2103914](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103914%20latency.docx) Reducing Latency for Positioning procedures Ericsson discussion

[R2-2104179](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104179%20%288.11.2%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

[R2-2104181](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104181%288.11.2%29%20latency%20reduction%20via%20measurement%20gap%20signaling%20optimization.docx) Latency reduction via measurement gap signalling optimization Samsung R&D Institute UK discussion

[R2-2104274](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104274_positioning_latency_reduction.docx) Disucssion on latency reduction ZTE Corporation, Sanechips discussion Rel-17 NR\_pos\_enh-Core

[R2-2104275](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104275_positioning_periodic_PRS_measurement.docx) Discussion on preiodic PRS measurement ZTE Corporation, Sanechips discussion Rel-17 NR\_pos\_enh-Core

### 8.11.3 RRC Inactive

Methods, measurements, signalling and procedures to support positioning for UEs in RRC\_ INACTIVE state, for UE-based and UE-assisted positioning solutions.

Summary document

R2-2104495 Summary for AI 8.11.3 RRC INACTIVE vivo discussion FS\_NR\_pos\_enh

The following documents will not be individually treated

[R2-2102788](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102788%20Discussion%20DL%20positioning%20support%20in%20%20RRC_INACTIVE%20state.docx) Discussion DL positioning support in RRC\_INACTIVE states vivo discussion FS\_NR\_pos\_enh Withdrawn

[R2-2102798](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102798%20-%20Discussion%20on%20DL%20Positioning%20methods%20in%20RRC_INACTIVE%20state.docx) Discussion on DL Positioning methods in RRC\_INACTIVE state OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2102799](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102799%20-%20Discussion%20on%20UL%20Positioning%20methods%20in%20RRC_INACTIVE%20state.docx) Discussion on UL Positioning methods in RRC\_INACTIVE state OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2102850](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102850%20Support%20of%20Positioning%20in%20RRC_INACTIVE.docx) Support of Positioning in RRC\_INACTIVE Intel Corporation discussion Rel-17 NR\_pos\_enh

[R2-2102926](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102926%20Considerations%20on%20positioning%20for%20UEs%20in%20RRC_INACTIVE.docx) Considerations on Positioning for UEs in RRC\_INACTIVE state CATT discussion Rel-17 NR\_pos\_enh

[R2-2103130](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103130%20Positioning%20enhancements%20on%20RRC%20inactive%20UE.doc) Positioning enhancements on RRC Inactive UE Xiaomi discussion

[R2-2103383](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103383_Inactive_Idle_Positioning_LenMM.docx) On Positioning in RRC\_INACTIVE state Lenovo, Motorola Mobility discussion Rel-17

[R2-2103537](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103537%20Discussion%20on%20positioning%20in%20RRC%20INACTIVE%20state.docx) Discussion on positioning in RRC INACTIVE state Huawei, HiSilicon discussion Rel-17

R2-2103611 Considerations on positioning RRC Inactive Sony Europe B.V. discussion Rel-17 Late

[R2-2103612](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103612_Pos_Inactive_Final.docx) Considerations on positioning RRC Inactive Sony Europe B.V. discussion Rel-17

[R2-2103786](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103786%20%28R17%20NR%20POS%20WI%20AI8113_INACTIVE%29.doc) Positioning in RRC INACTIVE state InterDigital, Inc. discussion Rel-17 NR\_pos\_enh

[R2-2103900](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103900_%28positioning%20in%20inactive%20state%29.docx) Positioning of UEs in RRC Inactive State Qualcomm Incorporated discussion

[R2-2103915](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103915%20SDT.docx) On Usage of SDT for Positioning Ericsson discussion

[R2-2103997](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103997%20Inactive_Positioning.docx) Considerations on positioning in RRC\_INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_pos\_enh-Core

[R2-2104129](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104129%20UL%20and%20DL%2BUL%20NR%20positioning%20methods%20in%20RRC_INACTIVE.docx) UL and DL+UL NR positioning methods vivo Mobile Communication Co., discussion

[R2-2104183](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104183%20%288.11.3%29%20ePOS%20inactive%20positioning.docx) Support of positioning result reporting in Inactive state Samsung R&D Institute UK discussion

[R2-2104272](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104272_positioning_dl_inactive_positioning.docx) Discussion on DL INACTIVE positioning ZTE Corporation, Sanechips discussion Rel-17 NR\_pos\_enh-Core

R2-2104280 Discussion DL positioning support in RRC\_INACTIVE states vivo Mobile Communication Co., discussion Withdrawn

[R2-2104282](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104282%20Discussion%20DL%20positioning%20support%20in%20%20RRC_INACTIVE%20state.docx) Discussion DL positioning support in RRC\_INACTIVE states vivo Mobile Communication Co., discussion

### 8.11.4 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

R2-2103542 Summary of AI 8.11.4 for on-demand PRS Huawei, HiSilicon discussion Rel-17 Late

The following documents will not be individually treated

[R2-2102790](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102790%20on-demand%20PRS.docx) discuss on-demand PRS vivo discussion FS\_NR\_pos\_enh

[R2-2102797](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102797-%20Discussion%20on%20on-demand%20DL-PRS.doc) Discussion on on-demand DL-PRS OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2102851](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102851%20Support%20of%20on%20demand%20PRS.docx) On-Demand PRS transmission Intel Corporation discussion Rel-17 NR\_pos\_enh

[R2-2102927](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102927%20Discussion%20on%20on-demand%20PRS.docx) Discussion on on-demand PRS CATT discussion Rel-17 NR\_pos\_enh

[R2-2103132](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103132%20Discussion%20on%20on-demand%20DL%20PRS%20procedure.doc) Discussion on on-demand DL PRS procedure Xiaomi discussion

[R2-2103250](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103250%20Discussion%20on%20the%20enhancements%20of%20on-demand%20PRS.docx) Discussion on the enhancements of on-demand PRS Spreadtrum Communications discussion Rel-17

[R2-2103384](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103384_On-DemandPRS_LenMM.docx) On-Demand DL-PRS Support Lenovo, Motorola Mobility discussion Rel-17

[R2-2103538](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103538%20Discussion%20on%20on-demand%20PRS.docx) Discussion on on-demand PRS Huawei, HiSilicon discussion Rel-17

[R2-2103564](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103564.docx) On-demand PRS Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2103613](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103613_Pos_PRS_Ondemand_Final.docx) Considerations on positioning PRS On-demand Sony Europe B.V. discussion Rel-17

[R2-2103787](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103787%20%28R17%20NR%20POS%20WI_AI8114_OnDemand%29.doc) Procedures for On-demand PRS InterDigital, Inc. discussion Rel-17 NR\_pos\_enh

[R2-2103858](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103858%20signaling%20for%20on%20demand%20PRS.doc) Discussion on the signaling support for on-demand PRS Apple discussion

[R2-2103901](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103901_%28On-demand%20PRS%29.docx) On-demand PRS Qualcomm Incorporated discussion

[R2-2103916](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103916%20EnergySavings.docx) On demand PRS for energy savings Ericsson discussion

* Revised in R2-2104500

R2-2104500 On demand PRS for energy savings Ericsson discussion

[R2-2103998](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103998%20On-demand%20PRS%20considerations.docx) On-demand PRS transmission considerations Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_pos\_enh-Core

[R2-2103999](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103999%20Enhancement%20to%20on-demand%20PRS.docx) Latency enhancement to on-demand PRS functionality Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_pos\_enh-Core

[R2-2104142](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104142%20UE-initiated%20requests%20for%20on-demand%20PRS.docx) UE-initiated requests for on-demand PRS Convida Wireless discussion

[R2-2104184](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104184%20%288.11.4%29%20ePOS%20on%20demand%20DL%20PRS%20activation%20.docx) Support of on-demand DL PRS for positioning efficiency Samsung R&D Institute UK discussion

[R2-2104276](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104276_positioning_on_demand_PRS.docx) Discussion on on demand PRS ZTE Corporation, Sanechips discussion Rel-17 NR\_pos\_enh-Core

### 8.11.5 GNSS positioning integrity

Signalling, and procedures to support GNSS positioning integrity determination

Summary document

R2-2104291 Summary of 8.11.5 GNSS positioning integrity InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

* Revised in R2-2104497

R2-2104497 Summary of 8.11.5 GNSS positioning integrity InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

The following documents will not be individually treated

[R2-2102787](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102787%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

[R2-2102928](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102928%20Discussion%20on%20signalling%20and%20procedures%20to%20support%20GNSS%20positioning%20integrity.docx) Discussion on signalling and procedures to support GNSS positioning integrity CATT discussion Rel-17 NR\_pos\_enh

[R2-2102994](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102994%20Pos_Integrity.docx) Signalling and Procedures for Positioning Integrity Support Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_pos\_enh

[R2-2103133](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103133%20Discussion%20on%20methodologies%20for%20positioning%20integrity.doc) Discussion on signalling and procedures for GNSS positioning integrity Xiaomi discussion

[R2-2103145](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103145%20Introduction%20of%20positioning%20integrity%20related%20timer.doc) Introduction of positioning integrity related timer OPPO discussion Rel-17

[R2-2103539](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103539%20Discussion%20on%20network-assisted%20and%20UE-assisted%20integrity.docx) Discussion on network-assisted and UE-assisted integrity Huawei, HiSilicon discussion Rel-17

[R2-2103567](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103567.docx) UE-aided detection of threat to GNSS systems and assistance data signalling Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2103750](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103750%20Guiding%20framework%20on%20integrity%20concepts%20for%20A-GNSS%20positioning.docx) Guiding framework on integrity concepts for A-GNSS positioning ESA discussion Rel-17 NR\_pos\_enh

[R2-2103788](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103788%20%28R17%20NR%20POS%20WI%20AI8115_Integrity%29.doc) Procedures for GNSS positioning integrity InterDigital, Inc. discussion Rel-17 NR\_pos\_enh

[R2-2103917](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103917%20GNSS.docx) GNSS Integrity aspects of GNSS local environment and UE feared events Ericsson discussion

[R2-2103954](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CDocs%5CR2-2103954.zip) Considerations on Positioning Integrity Determination Swift Navigation, Intel Corporation, Ericsson discussion

[R2-2104189](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104189%20%288.11.5%29%20positioning%20integrity%20ePOS.docx) Consideration on the signalling design for Positioning Integrity Samsung R&D Institute UK discussion

[R2-2104273](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2104273_positioning_integrity_transportation.docx) Discussion on positioning integrity ZTE Corporation, Sanechips discussion Rel-17 NR\_pos\_enh-Core

### 8.11.6 Other

Input on other WI objectives.

[R2-2102929](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2102929%20Discussion%20on%20measurement%20report%20for%20accuracy%20improvement.docx) Discussion on Measurement Time Windows for accuracy improvement CATT discussion Rel-17 NR\_pos\_enh

[R2-2103540](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103540%20Discussion%20on%20positioning%20enhancement.docx) Discussion on R17 positioning enhancement Huawei, HiSilicon discussion Rel-17

[R2-2103789](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103789%20%28R17%20NR%20POS%20WI%20AI8116_INACTIVE%20mobility%29.doc) Positioning during mobility and in RRC INACTIVE InterDigital, Inc. discussion Rel-17 NR\_pos\_enh

[R2-2103902](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103902_%28Reference%20Devices%29.docx) Signalling and Procedures for supporting Reference Location Devices Qualcomm Incorporated discussion

[R2-2103918](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202104%20-%20RAN2_113bis-e%2C%20Online%5CExtracts%5CR2-2103918%20Accuracy.docx) On High Accuracy Aspects Ericsson discussion