3GPP TSG-RAN WG2 Meeting #123bis R2-23xxxxx

Xiamen, China, October 9th – 13th, 2023

Source: Session Chair (MediaTek)

Title: Report from session on positioning and sidelink relay

# 4 EUTRA Rel-17 and earlier

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

## 4.4 Positioning corrections Rel-16 and earlier

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

This Agenda Item will be handled by email.

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 6 tdocs in total for all sub agenda items.

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

## 5.3 NR Positioning Support

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: [RP-191971](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_85/Docs/RP-191971.zip))

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: [RP-200218](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200218.zip)).

(NR TEI16 Positioning)

### 5.3.1 General and Stage 2 corrections

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

[R2-2309620](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309620%20Correction%20to%2038.305%20on%20NR%20E-CID%20-%20r16_final.docx) Correction to 38.305 on NR E-CID Huawei, HiSilicon CR Rel-16 38.305 16.9.0 0143 - F NR\_pos-Core

[R2-2309621](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309621%20Correction%20to%2038.305%20on%20NR%20E-CID%20-%20r17_final.docx) Correction to 38.305 on E-CID r17 Huawei, HiSilicon CR Rel-17 38.305 17.6.0 0144 - A NR\_pos-Core

### 5.3.2 Stage 3 corrections (RRC/LPP/MAC/capabilities)

[R2-2309622](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309622%20Correction%20to%2038.331%20on%20GNSS-ID%20R16_final.docx) Correction to 38.331 on GNSS-ID r16 Huawei, HiSilicon CR Rel-16 38.331 16.14.0 4309 - F NR\_pos-Core

[R2-2309623](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309623%20Correction%20to%2038.331%20on%20GNSS-ID%20R17_final.docx) Correction to 38.331 on GNSS-ID r17 Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4310 - A NR\_pos-Core

[R2-2309624](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309624%20Correction%20to%2037.355%20on%20broadcast%20information%20element%20R15_final.docx) Correction to 37.355 on broadcast information element Huawei, HiSilicon CR Rel-15 37.355 15.3.0 0467 - F NR\_newRAT-Core

[R2-2309625](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309625%20Correction%20to%2037.355%20on%20broadcast%20information%20element%20R16_final.docx) Correction to 37.355 on broadcast information element-r16 Huawei, HiSilicon CR Rel-16 37.355 16.12.0 0468 - A NR\_newRAT-Core

[R2-2309626](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309626%20Correction%20to%2037.355%20on%20broadcast%20information%20element%20R17_final.docx) Correction to 37.355 on broadcast information element-r17 Huawei, HiSilicon CR Rel-17 37.355 17.6.0 0469 - A NR\_newRAT-Core

[R2-2310849](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310849%20GNSSF.docx) GNSS SSR corrections and notes Ericsson CR Rel-16 37.355 16.12.0 0472 - F NR\_pos-Core

[R2-2310850](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310850%20GNSSA.docx) GNSS SSR corrections and notes Ericsson CR Rel-17 37.355 17.6.0 0473 - A NR\_pos-Core

Withdrawn/Not available

R2-2309644 Correction to 38.305 on E-CID r16 Huawei, HiSilicon discussion Rel-16 38.305 NR\_pos-Core Withdrawn

R2-2309645 Correction to 38.305 on E-CID r17 Huawei, HiSilicon discussion Rel-17 38.305 NR\_pos-Core Withdrawn

R2-2309646 Correction to 38.331 on GNSS-ID r16 Huawei, HiSilicon discussion Rel-16 38.331 NR\_pos-Core Withdrawn

R2-2309647 Correction to 38.331 on GNSS-ID r17 Huawei, HiSilicon discussion Rel-17 38.331 NR\_pos-Core Withdrawn

R2-2309648 Correction to 37.355 on broadcast information element-r15 Huawei, HiSilicon discussion Rel-15 37.355 NR\_newRAT-Core Withdrawn

R2-2309649 Correction to 37.355 on broadcast information element-r16 Huawei, HiSilicon discussion Rel-16 37.355 NR\_newRAT-Core Withdrawn

R2-2309650 Correction to 37.355 on broadcast information elementr-r17 Huawei, HiSilicon discussion Rel-17 37.355 NR\_newRAT-Core Withdrawn

# 6 NR Rel-17

Essential corrections only. Editorial/clarifications should be sent to be reviewed and approved by spec rapporteurs prior to submission. Editiorials should only be submitted by spec rapporteurs.

## 6.2 NR Sidelink relay

(NR\_SL\_Relay-Core; leading WG: RAN2; REL-17; WID: [RP-212601](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_93e/Docs/RP-212601.zip))

Tdoc Limitation: 2 tdocs

### 6.2.1 Control plane and Stage-2 corrections

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

CR rapporteur summary

R2-2311261 Report of [Pre123bis][401][Relay] Rel-17 control plane corrections (Huawei) Huawei discussion Rel-17 NR\_SL\_relay-Core

The following documents will not be individually treated

[R2-2309516](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5C38304_CR0353_%28REL-17%29_R2-2309516%20-%20Correction%20on%20SIB%20and%20Preconfiguration%20applicability_V6.docx) Correction on SIB/Preconfiguration applicability OPPO, ZTE CR Rel-17 38.304 17.6.0 0353 - F NR\_SL\_enh-Core, NR\_SL\_relay-Core

[R2-2309918](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309918_38.300_CR0713_Rel17_PC5%20unicast%20link%20release%20timing%20correction%20in%20indirect%20to%20direct%20path%20switch%20case.docx) PC5 unicast link release timing correction in indirect to direct path switch case MediaTek Inc CR Rel-17 38.300 17.6.0 0713 - F NR\_SL\_relay-Core

[R2-2310035](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5C38331_CR4319_%28Rel-17%29_R2-2310035-Correction%20on%20the%20PWS%20SIB%20forwarding.docx) Correction on the PWS SIBs forwarding CATT CR Rel-17 38.331 17.6.0 4319 - F NR\_SL\_relay-Core

[R2-2310036](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310036_Discussion%20on%20PWS%20handling%20in%20L2%20U2N%20Relay%20Scenario.docx) Discussion on PWS Handling in L2 U2N Relay Scenario CATT discussion Rel-17 NR\_SL\_relay-Core

[R2-2310354](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310354%2038331_R17_relay_Correction_lcoal%20ID%20request.docx) Correction on the inclusion of sl-LocalID-Request in SUI Apple CR Rel-17 38.331 17.6.0 4325 - F NR\_SL\_relay-Core

[R2-2310493](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5C38331_CR4331_%28Rel-17%29_R2-2310493%20Miscellaneous%20corrections%20for%20SL%20relay.docx) Miscellaneous corrections for SL relay Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4331 - F NR\_SL\_relay-Core

[R2-2310494](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5C38331_CR4332_%28Rel-17%29_R2-2310494%20SL-RLC0%20and%20SL-RLC1%20handling%20during%20L2%20Relay%20UE%20RRC%20reestablishment.docx) SL-RLC0 and SL-RLC1 handling during L2 Relay UE RRC reestablishment Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4332 - F NR\_SL\_relay-Core

[R2-2310599](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5C38331_CR4337_%28Rel-17%29_R2-2310599_Correction%20on%20SUI%20for%20sidelink%20relay.docx) Correction on SUI for sidelink relay ZTE, Sanechips CR Rel-17 38.331 17.6.0 4337 - F NR\_SL\_relay-Core

[R2-2310600](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310600_Corrections%20on%20TS38.331%20for%20SL%20relay.docx) Correction on TS 388.331 for sidelink discovery ZTE, Sanechips CR Rel-17 38.331 17.6.0 4338 - F NR\_SL\_relay-Core

[R2-2310701](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310701%20ReconfFailureR17.docx) Handling of Relay UE’s reconfiguration failure Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_relay-Core

[R2-2310758](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310758%20Applicability%20of%20SIB12%20and%20preconfiguration.docx) Preconfiguration applicability in relay scenarios Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay-Core

[R2-2310816](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310816_38331_CR4352_%28Rel-17%29_RRC%20corrections%20for%20measurement%20reporting%20event%20Y2.docx) RRC corrections for measurement reporting event Y2 China Telecom, Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4352 - D NR\_SL\_relay-Core

[R2-2310838](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CDocs%5CR2-2310838.zip) Correction on sidelink relay RRC Philips International B.V. CR Rel-17 38.331 17.6.0 4353 - F NR\_SL\_relay-Core

[R2-2311220](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311220%20-%2038.300_CR0719_Rel17_Correction%20on%20the%20SidelinkUEInformationNR%20message.docx) Correction on the SidelinkUEInformationNR message Ericsson CR Rel-17 38.300 17.6.0 0719 - F NR\_SL\_relay-Core

### 6.2.2 User plane corrections

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

[R2-2309685](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309685_38351_CR0026_%28REL-17%29%20-Align%20terminology%20of%20PC5%20Relay%20RLC%20channel.docx) Align terminology of PC5 Relay RLC channel OPPO CR Rel-17 38.351 17.6.0 0026 - F NR\_SL\_relay-Core

[R2-2310353](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310353%2038321_R17_relay_Correction_Destination_index.docx) Clarifications on the Destination Index usage in SL BSR Apple CR Rel-17 38.321 17.6.0 1680 - F NR\_SL\_relay-Core

## 6.4 NR positioning enhancements

(NR\_pos\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-210903](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_91e/Docs/RP-210903.zip))

Tdoc Limitation: 2 tdocs

### 6.4.1 Stage 3 corrections

A single CR per TS (RRC, LPP, MAC, UEcap 306) with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur. Larger open issues can be discussed with contributions (limited time).

[R2-2310693](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310693.docx) Correction of existing SSR IEs in A-GNSS for BDS system CATT, CAICT discussion Rel-17

[R2-2309609](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309609_37355_CR0466_%28Rel-17%29.docx) Correction of existing SSR IEs in A-GNSS for BDS system CATT, CAICT, CMCC, China Telecom, China Unicom, Huawei, ZTE Corporation, MediaTek Inc., OPPO, xiaomi, vivo, Spreadtrum CR Rel-17 37.355 17.6.0 0466 - F NR\_pos\_enh-Core

[R2-2309627](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309627%20Correction%20to%20UE%20capability%20for%20batch%20reporting.docx) Correction to UE capability for batch reporitng Huawei, HiSilicon CR Rel-17 37.355 17.6.0 0470 - F NR\_pos\_enh-Core

[R2-2309919](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309919%20Issue%20on%20dl-prs-ResourceSetPeriodicityReq-r17.docx) Issue on dl-prs-ResourceSetPeriodicityReq-r17 Samsung discussion Rel-17 NR\_pos\_enh-Core

[R2-2309920](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309920_Addition%20of%20reference%20SCS%20for%20dl-prs-ResourceSetPeriodicityReq-r17.docx) Addition of reference SCS for dl-prs-ResourceSetPeriodicityReq-r17 Samsung CR Rel-17 37.355 17.6.0 0471 - F NR\_pos\_enh-Core

[R2-2310545](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310545%20Discussion%20on%20LocationMeasurementIndication%20procedure%20for%20positioning.docx) Discussion on LocationMeasurementIndication procedure for positioning ZTE Corporation discussion Rel-17 NR\_pos\_enh-Core

[R2-2310575](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310575%20Correction%20on%20LocationMeasurementIndication%20procedure%20for%20positioning.docx) Correction on LocationMeasurementIndication procedure for positioning ZTE Corporation CR Rel-17 38.331 17.6.0 4336 - F NR\_pos\_enh-Core

[R2-2310616](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310616%20Clarification%20on%20the%20field%20description%20of%20dl-prs-ResourceSetPeriodicityReq.docx) Clarification on the field description of dl-prs-ResourceSetPeriodicityReq vivo draftCR Rel-17 37.355 17.6.0 F NR\_pos\_enh-Core

[R2-2310644](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310644%20Correction%20to%20activated%20measurement%20gap%20and%20PPW_final.docx) Correction to activated measurement gap and PPW Huawei, HiSilicon CR Rel-17 38.321 17.6.0 1685 - F NR\_pos\_enh-Core, NR\_MG\_enh-Core

[R2-2310851](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310851%20PeriodicCR%20and%20HAGNSS.docx) Missing finer periodicities than 1s and HA GNSS Metrics field description correction Ericsson CR Rel-17 37.355 17.6.0 0474 - F NR\_pos\_enh-Core

[R2-2310909](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310909_%28TEG%20Capability%29.docx) Correction to UE TEG Capability Qualcomm Incorporated CR Rel-17 37.355 17.6.0 0475 - F NR\_pos\_enh-Core

Withdrawn/Not available

R2-2310913 Updates for the consumption of posSIBs assistance data element Ericsson, Intel Corporation CR Rel-17 37.355 17.6.0 0476 - F NR\_pos\_enh-Core Withdrawn

### 6.4.2 Stage 2 corrections

A single CR with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur. This agenda item will be handled at lower priority.

[R2-2310997](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310997%20posSIB.docx) Updates for the consumption of posSIBs assistance data element Ericsson, Intel Corporation, AT&T CR Rel-17 38.305 17.6.0 0147 - F NR\_pos\_enh-Core

Withdrawn/Not available

R2-2310852 Updates for the consunmption of posSIBs assistance data element Ericsson, Intel Corporation CR Rel-17 38.305 17.6.0 0145 - F NR\_pos\_enh-Core Withdrawn

# 7 Rel-18

## 7.2 Expanded and improved NR positioning

(NR\_pos\_enh2; leading WG: RAN1; REL-18; WID: [RP-232670](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232670.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

### 7.2.1 Organizational

Including incoming LSs and rapporteur inputs.

Incoming LSs with RAN2 in Cc:

[R2-2309406](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309406_C1-236562.docx) LS on LPP message and supplementary service event report over a user plane connection between UE and LMF (C1-236562; contact: Ericsson) CT1 LS in Rel-18 5G\_eLCS\_Ph3 To:SA2 Cc:SA3, RAN2, CT4

[R2-2309452](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309452_R4-2314357.docx) Reply LS on single measurement gap for DL PRS with Rx Hopping (R4-2314357; contact: Xiaomi) RAN4 LS in Rel-18 NR\_pos\_enh2-Core To:RAN1 Cc:RAN2

[R2-2309477](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309477_S2-2310025.docx) Reply LS on Reply LS on security aspects for Ranging/Sidelink Positioning (S2-2310025; contact: Xiaomi) SA2 LS in Rel-18 Ranging\_SL To:SA2 Cc:RAN2

Incoming LSs with “take into account” action and no draft reply

[R2-2309409](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309409_R1-2308349.docx) Reply LS on LPHAP (R1-2308349; contact: Huawei) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2 Cc:RAN3, RAN4

[R2-2309419](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309419_R1-2308559.docx) LS on Priority Handling for SL Positioning (R1-2308559; contact: Intel) RAN1 LS in Rel-18 NR\_pos\_enh2 To:RAN2

[R2-2309423](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309423_R1-2308571.docx) LS on the longer PRS/SRS periodicity for LPHAP (R1-2308571; contact: Huawei) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2, RAN3

[R2-2309453](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309453_R4-2314358.docx) LS on SL positioning and CPP measurements report mapping (R4-2314358; contact: CATT) RAN4 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2, RAN3 Cc:RAN1

[R2-2309454](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309454_R4-2314360.docx) Reply LS on LPHAP (R4-2314360; contact: Huawei) RAN4 LS in Rel-18 NR\_pos\_enh2 To:RAN2 Cc:RAN1, RAN3

LS on PRUs (handled in offline [402])

[R2-2309427](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309427_R1-2308644.docx) Reply LS on PRU Procedures (R1-2308644; contact: CATT) RAN1 LS in Rel-18 NR\_pos\_enh2-Core, 5G\_eLCS\_Ph3 To:SA2, RAN2, RAN3 Cc:RAN4

Other incoming LSs and draft replies from contact company

[R2-2309428](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309428_R1-2308646.doc) LS on TRP ID for positioning with bandwidth aggregation (R1-2308646; contact: ZTE) RAN1 LS in Rel-18 NR\_pos\_enh2 To:RAN2

[R2-2309429](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309429_R1-2308649.docx) LS on RSRP based TA validation for LPHAP (R1-2308649; contact: Huawei) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2

[R2-2309637](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309637%20Draft%20reply%20LS%20on%20LPHAP%20TA%20validation_v00.doc) Draft reply LS on LPHAP TA validation Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2 To:RAN1

[R2-2309430](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309430_R1-2308651.docx) LS on the resource selection window for Scheme 2 in a dedicated resource pool for positioning (R1-2308651; contact: Qualcomm) RAN1 LS in Rel-18 NR\_pos\_enh2 To:RAN2 Cc:SA2

[R2-2309474](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309474_S2-2309926.docx) Response LS to RAN WG2 on reporting positioning measurements taken in RRC\_IDLE (S2-2309926; contact: CATT) SA2 LS in Rel-18 NR\_pos\_enh2, 5G\_eLCS\_Ph3 To:RAN2 Cc:RAN1

[R2-2309597](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309597%20Reply%20LS%20to%20SA2%20on%20reporting%20positioning%20measurements%20taken%20in%20RRC_IDLE.docx) Reply LS to SA2 on reporting positioning measurements taken in RRC\_IDLE CATT LS out Rel-18 NR\_pos\_enh2, 5G\_eLCS\_Ph3 To:SA2

[R2-2309465](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309465_R4-2314483.docx) LS on PRS/RRM measurement when eDRX cycle > 10.24s (R4-2314483; contact: Ericsson) RAN4 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2

Work plan

[R2-2309596](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309596%20Work%20Plan%20for%20Rel-18%20WI%20on%20Expanded%20and%20Improved%20NR%20Positioning.docx) Work Plan for Rel-18 WI on Expanded and Improved NR Positioning CATT, Intel Corporation, Ericsson Work Plan Rel-18

Draft reply on PRUs

[R2-2309598](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309598%20%5BDraft%5DReply%20LS%20on%20Reply%20LS%20on%20PRU%20Procedures.doc) [Draft]Reply LS on Reply LS on PRU Procedures CATT LS out Rel-18 NR\_pos\_enh2 To:RAN1 Cc:RAN3, RAN4, SA2

* [AT123bis][402][POS] PRUs (CATT)

 Scope: Email to discuss the incoming LS in R2-2309427 and draft reply in R2-2309598, along with the contributions in R2-2310854 and R2-2310920 and P1 of R2-2309608, reply and evaluate the RAN2 impact for PRU support.

 Intended outcome: Reply LS and report to Thursday CB session

 Deadline: Wednesday 2023-10-11 1900 CST

Other draft replies

[R2-2309599](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309599%20Reply%20LS%20on%20TRP%20ID%20for%20positioning%20with%20bandwidth%20aggregation.doc) Reply LS on TRP ID for positioning with bandwidth aggregation CATT LS out Rel-18 NR\_pos\_enh2 To:RAN1

Running CRs

[R2-2309600](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309600%20LPP%20running%20CR%20for%20LPHAP.docx) LPP running CR for LPHAP CATT draftCR Rel-18 37.355 17.6.0 B NR\_pos\_enh2

[R2-2309601](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309601%20LPP%20running%20CR%20for%20Carrier%20Phase%20Positioning.docx) LPP running CR for Carrier Phase Positioning CATT draftCR Rel-18 37.355 17.6.0 B NR\_pos\_enh2

[R2-2309602](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309602%20LPP%20running%20CR%20for%20bandwidth%20aggregation.docx) LPP Running CR for bandwidth aggregation CATT draftCR Rel-18 37.355 17.6.0 B NR\_pos\_enh2

[R2-2309603](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309603%20LPP%20running%20CR%20for%20RAT-dependent%20integrity.docx) LPP running CR for RAT-dependent integrity CATT draftCR Rel-18 37.355 17.6.0 B NR\_pos\_enh2

[R2-2309604](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309604%20LPP%20running%20CR%20for%20Redcap%20Positioning.docx) LPP Running CR for Redcap positioning CATT draftCR Rel-18 37.355 17.6.0 B NR\_pos\_enh2

[R2-2309632](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309632%20Draft%20running%20MAC%20CR%20for%20LPHAP_final.docx) Running MAC CR for LPHAP Huawei, HiSilicon draftCR Rel-18 38.321 17.6.0 NR\_pos\_enh2

[R2-2309633](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309633%20Draft%20running%20MAC%20CR%20for%20sidelink%20positioning_final.docx) Running MAC CR for Sidelink Positioning Huawei, HiSilicon draftCR Rel-18 38.321 17.6.0 NR\_pos\_enh2

[R2-2309635](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309635%20Draft%20Running%20MAC%20CR%20for%20CA%20positioning_final.docx) Running MAC CR for CA positioniing Huawei, HiSilicon draftCR Rel-18 38.321 17.6.0 NR\_pos\_enh2

[R2-2309636](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309636%20Draft%20Running%20MAC%20CR%20for%20REDCAP%20positioning_final.docx) Running MAC CR for REDCAP positioning Huawei, HiSilicon draftCR Rel-18 38.321 17.6.0 NR\_pos\_enh2

[R2-2309667](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309667%20Running%2038300%20CR%20for%20sidelink%20positioning.docx) Running 38300 CR for sidelink positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2310860](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310860%20SLRRC.docx) Rapporteur CR for Sidelink Positioning RRC Changes Ericsson discussion Rel-18

[R2-2310861](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310861%20CPP.docx) Rapporteur CR for CPP Positioning RRC Changes Ericsson draftCR Rel-18 38.331 17.6.0 B NR\_pos\_enh2

[R2-2310862](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310862%20recap.docx) Rapporteur CR for Redcap Positioning RRC Changes Ericsson draftCR Rel-18 38.331 17.6.0 B NR\_pos\_enh2

[R2-2310863](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310863%20BWA.docx) Rapporteur CR for bandwidth aggregation Ericsson draftCR Rel-18 38.331 17.6.0 B NR\_pos\_enh2

[R2-2310911](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310911_%28Running%20Stage%202%20CR%29_v02.docx) Running Stage 2 CR for 'Expanded and improved NR positioning' Qualcomm Incorporated draftCR Rel-18 38.305 17.6.0 B NR\_pos\_enh2

[R2-2310980](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310980%20Running%20CR%20for%20RRC.docx) Running CR for Positioning Ericsson draftCR Rel-18 38.331 17.6.0 B NR\_pos\_enh2

* [AT123bis][403][POS] LPP CRs (CATT)

 Scope: Check and update the Rel-18 positioning CRs to 37.355.

 Intended outcome: Endorsable CRs

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][404][POS] Positioning MAC CRs (Huawei)

 Scope: Check and update the Rel-18 positioning CRs to 38.321.

 Intended outcome: Endorsable CRs

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][405][POS] Positioning RRC CRs (Ericsson)

 Scope: Check and update the Rel-18 positioning CRs to 38.331.

 Intended outcome: Endorsable CRs

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][406][POS] Positioning 38.305 CR (Qualcomm)

 Scope: Check and update the Rel-18 positioning CR to 38.305.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][407][POS] Positioning 38.300 CR (vivo)

 Scope: Check and update the Rel-18 positioning CR to 38.300.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

TS 38.355

[R2-2310218](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310218%20SLPP%20considerations.docx) Further considerations on SLPP specification Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310219](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310219%2038.355%20TP%20on%20SLPP%20sessino%20handling.docx) TS38.355 TP on SLPP session and session procedure Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310220](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310220%2038.355%20TP%20on%20ASN1.docx) TS38.355 TP on ASN.1 part Intel Corporation discussion Rel-18 NR\_pos\_enh2

R2-2310221 TS38.355 TP on SLPP procedure Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310222](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CDocs%5CR2-2310222.zip) TS 38.355 v1.1.0 Intel Corporation draft TS Rel-18 38.355 1.1.0 NR\_pos\_enh2

UE capabilities

[R2-2310444](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310444%20Discussion%20on%20R18%20positioning%20UE%20capabilities_V2.doc) Discussion on R18 positioning UE capabilities Beijing Xiaomi Mobile Software discussion Rel-18

Withdrawn/Not available

R2-2310864 Running RRC CR for Positioning Ericsson CR Rel-18 38.331 17.6.0 4355 - B NR\_pos\_enh2 Withdrawn

### 7.2.2 Sidelink positioning

Positioning architecture and unicast signalling procedures (e.g. configuration, measurement reporting, etc) to enable session-based sidelink positioning for a single target UE. Including measurements to enable RTT-based positioning, SL-AoA, and SL-TDOA; signalling and associated UE behaviour for support of unicast, groupcast (not including many-to-one) and broadcast of SL-PRS transmissions; reporting signalling and procedures to facilitate support of SL positioning between UEs and between UEs and LMF (the latter for in-coverage scenarios only and including joint PC5-Uu scenarios, and with the assumption that all UEs are served by the same LMF); and signalling to NG-RAN for SL positioning and service authorization as needed. No work on procedures for synchronization of the anchor UEs for SL-TDOA.

Including report of [Post123][401][POS] RAN2 impact from SL-PRS parameters (Intel)

Including report of [Post123][403][POS] Sidelink positioning MAC issues (Huawei)

Email discussion reports

[R2-2310216](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310216.docx) Report of [Post123][401][POS] RAN2 impact from SL-PRS parameters (Intel) Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2309634](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309634%20Summary%20of%20%5BPost123%5D%5B403%5D%5BPOS%5D%20Sidelink%20positioning%20MAC%20issues%20%28Huawei%29.docx) Summary of [Post123][403][POS] Sidelink positioning MAC issues (Huawei) Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

Stage 3 SLPP proposals (considered in offline [401])

[R2-2309605](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309605%20SLPP%20and%20RRC%20Signaling%20Design%20for%20SL%20positioning.docx) SLPP and RRC Signaling Design for SL positioning CATT discussion Rel-18

[R2-2310014](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310014%20Discussion%20on%20sidelink%20positioning.docx) Discussion on sidelink positioning Spreadtrum Communications discussion Rel-18

[R2-2310194](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310194.docx) SLPP signalling and procedures MediaTek Inc. discussion Rel-18 NR\_pos\_enh2-Core

[R2-2310347](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310347-SL-POS-procedures-v1.docx) UE only SL positioning procedure Apple discussion Rel-18 NR\_pos\_enh2

[R2-2310691](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310691.docx) Discussion of SLPP / LPP signalling procedures Nokia Netherlands discussion Rel-18

[R2-2310912](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310912%20_%28SLPP%20Details%29.docx) Further Considerations on SLPP Design Qualcomm Incorporated discussion

* [AT123bis][401][POS] Progressing TS 38.355 (Intel)

 Scope: F2F offline on principles and TPs for 38.355, considering R2-2309605 / P21 of R2-2309759 / R2-2310014 / R2-2310194 / R2-2310347 / P8-P9 of R2-2310543 / R2-2310691 / R2-2310912 (not all proposals of all documents will be handled)

 Intended outcome: Report to Thursday CB session

 Deadline: Wednesday 2023-10-11 1900 CST

 Schedule: Monday 2023-10-09 1700-1800 CST, in Brk3

Other documents

[R2-2309668](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309668%20Remaining%20issues%20on%20higher%20layer%20aspects%20for%20sidelink%20positioning.docx) Remaining issues on higher layer aspects for sidelink positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2310430](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310430%20Remaining%20issues%20on%20lower%20layer%20aspects%20for%20R18%20sidelink%20positioning%20.docx) Remaining issues on lower layer aspects for R18 sidelink positioning LG Electronics Inc. discussion Rel-18

[R2-2309578](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309578_Sidelink_Fraunhofer.docx) UE Positioning using Sidelink Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2309630](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309630%20Discussion%20on%20higher%20layer%20aspects%20for%20Sidelink%20Positioning_final.docx) Discussion on higher layer aspects for sidelink positioning Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2309631](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309631%20Discussion%20on%20lower%20layer%20aspects%20for%20sidelink%20positoining_final.docx) Discussion on lower layer aspects for SL positioning Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2309669](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309669%20Discussion%20on%20transmission%20and%20measurement%20of%20SL-PRS.docx) Discussion on transmission and measurement of SL-PRS vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2309741](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309741-Further%20Discussions%20on%20Sidelink%20Positioning%20and%20Ranging.docx) Further discussion on SL positioning and ranging CEWiT discussion

[R2-2309759](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309759%20Discussion%20on%20SL%20positioning.doc) Discussion on SL positioning Xiaomi discussion Rel-18

[R2-2310044](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310044%20Discussion%20on%20UE%20assistance%20information%20for%20SL-PRS.doc) Discussion on UE assistance information for SL-PRS Samsung Electronics Co., Ltd discussion Rel-18 NR\_pos\_enh2

[R2-2310076](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310076%20%287.2.2%29%20open%20issue%20for%20SL%20POS%20.docx) Open issues regarding SLPP session Samsung Guangzhou Mobile R&D discussion

[R2-2310195](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310195.docx) SLPP information forwarding MediaTek Inc. discussion Rel-18 NR\_pos\_enh2-Core

[R2-2310217](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310217.docx) Further considerations on sidelink positioning Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310275](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310275%20Considerations%20on%20Sidelink%20positioning.doc) Considerations on Sidelink positioning CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2310379](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310379%20Further%20discussion%20on%20sidelink%20positioning.docx) Further discussion on sidelink positioning OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2310429](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310429%20Remaining%20issues%20on%20higher%20layer%20aspects%20for%20R18%20sidelink%20positioning.docx) Remaining issues on higher layer aspects for R18 sidelink positioning LG Electronics Inc. discussion Rel-18

[R2-2310436](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CDocs%5CR2-2310436.zip) Discussion on sidelink positioning InterDigital, Inc. discussion Rel-18 NR\_pos\_enh2-Core

[R2-2310541](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310541%20Discussion%20on%20lower-layer%20related%20sidelink%20positioning.docx) Discussion on lower-layer related sidelink positioning ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310543](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310543%20Discussion%20on%20sidelink%20positioning.docx) Discussion on sidelink positioning ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310680](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310680.docx) Discussion of resource allocation aspects Nokia Netherlands discussion Rel-18

[R2-2310759](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310759_SL_Pos_Res.docx) Considerations on multiplexing, congestion control and ARP Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2310789](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310789_SLPosDiscussion.docx) SL Positioning Discussion Lenovo discussion Rel-18

R2-2310833 Further discussion on sidelink positioning ROBERT BOSCH GmbH discussion Rel-18 Late

[R2-2310848](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310848.docx) Discussion of session management for SL positioning Nokia Netherlands discussion Rel-18

[R2-2310856](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310856%20SL.docx) Remaining issue for NW involved Sidelink positioning Ericsson discussion Rel-18

[R2-2311032](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311032_On%20sidelink%20positioning%20discovery%20and%20cap%20exchange.docx) On sidelink positioning discovery and capabilities exchange Philips International B.V. discussion NR\_pos\_enh2

[R2-2311035](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311035_On%20the%20stability%20of%20Anchor%20UE%20Location.doc) On the stability of Anchor UE location Philips International B.V. discussion NR\_pos\_enh2

### 7.2.3 RAT-dependent integrity

Error modelling parameters, signalling, and procedures to support UE-based and LMF-based integrity of RAT-dependent positioning methods.

[R2-2309924](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309924%20Discussion%20on%20RAT-dependent%20integrity.doc) Discussion on RAT-dependent integrity Lenovo discussion Rel-18

[R2-2310415](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310415%20Discussion%20on%20RAT-dependent%20positioning%20integrity.doc) Discussion on RAT-dependent positioning integrity Xiaomi discussion

[R2-2310380](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310380%20Consideration%20on%20RAT-dependent%20positioning%20integrity.docx) Consideration on RAT-dependent positioning integrity OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2310823](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310823%20R18%20NR%20POS%20A723%20RAT%20dependent%20integrity.doc) Discussion on RAT dependent integrity InterDigital Inc. discussion Rel-18

[R2-2310857](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310857%20Integrity.docx) Support for UE-based integrity Ericsson discussion Rel-18

[R2-2310914](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310914_%28integrity%29.docx) Remaining Issues for Integrity of NR Positioning Technologies Qualcomm Incorporated discussion

[R2-2310996](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310996%20Positioning%20Integrity.docx) Signalling about beam related information for positioning integrity Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_pos\_enh2-Core

### 7.2.4 LPHAP

Enhancements for enabling LPHAP use case 6 (TS 22.104), including extending eDRX cycle (coordinated with RedCap WI); SRS configuration enhancements based on validity area for UEs in RRC\_INACTIVE; DL-PRS measurements in RRC\_IDLE and reporting in RRC\_CONNECTED; and alignment between eDRX and PRS configurations.

[R2-2309606](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309606%20Discussion%20on%20LPHAP.docx) Discussion on LPHAP CATT discussion Rel-18

[R2-2310381](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310381%20Discussion%20on%20the%20leftover%20issues%20of%20LPHAP%20enhancement.docx) Discussion on the leftover issues of LPHAP enhancement OPPO discussion Rel-18 NR\_pos\_enh2

[R2-2309579](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309579_LPHAP_Fraunhofer.docx) Reliable LPHAP position with extended DRX cycle Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2309629](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309629%20Discussion%20on%20LPHAP_final.docx) Discussion on LPHAP Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2309670](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309670%20Remaining%20issues%20of%20LPHAP.doc) Remaining issues of LPHAP vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2309922](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309922_Discussion%20on%20alignment%20between%20%28e%29DRX%20and%20PRS.docx) Discussion on alignment between (e)DRX and PRS Samsung discussion Rel-18 NR\_pos\_enh2

[R2-2309923](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309923_Discussion%20on%20SRS%20configuration%20in%20RRC_INACTIVE.docx) Discussion on SRS configuration in RRC\_INACTIVE Samsung discussion Rel-18 NR\_pos\_enh2

[R2-2309925](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309925%20Discussion%20on%20low%20power%20high%20accuracy%20positioning.doc) Discussion on low power high accuracy positioning Lenovo discussion Rel-18

[R2-2310223](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310223%20LPHAP.docx) Further considerations on LPHAP Intel Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310276](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310276%20Further%20considerations%C2%A0on%C2%A0LPHAP.doc) Further considerations on LPHAP CMCC discussion Rel-18 NR\_pos\_enh2

[R2-2310416](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310416%20Discussion%20on%20LPHA%20positioning.doc) Discussion on LPHA positioning Xiaomi discussion

[R2-2310540](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310540%20Discussion%20on%20LPHAP.docx) Discussion on LPHAP ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310760](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310760_LPHAP.docx) Considerations on Low Power High Accuracy Positioning Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2310824](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310824%20R18%20NR%20POS%20A724%20LPHAP.doc) Discussion on LPHAP InterDigital Inc. discussion Rel-18

[R2-2310858](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310858%20LPHAP.docx) Remaining issue on Low Power High Accuracy Positioning Ericsson discussion Rel-18

[R2-2310915](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310915_%28LPHAP%29.docx) Remaining issues for LPHAP Qualcomm Incorporated discussion

### 7.2.5 RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning

RAN1 led objectives that may require progress in RAN1 before RAN2 can take decisions.

Including report of [Post123][402][POS] RAN2 impact of RAN1-led positioning objectives (Nokia)

Email discussion report

[R2-2310998](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310998%20%5BPost123%5D%5B402%5D%20RAN2%20impact%20of%20RAN1-led%20positioning%20objectives_v13_Rapp.docx) [Post123][402][POS] RAN2 impact of RAN1-led positioning objectives (Nokia) Nokia, Nokia Shanghai Bell report Rel-18 NR\_pos\_enh2-Core

Other documents

[R2-2309926](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309926%20Discussion%20on%20RedCap%2C%20carrier%20phase%20positioning%20and%20PRS%2CSRS%20bandwidth%20aggregation.doc) Discussion on RedCap positioning, carrier phase positioning and PRS/SRS bandwidth aggregation Lenovo discussion Rel-18

[R2-2309607](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309607%20Discussion%20on%20bandwidth%20aggregation%20for%20positioning.docx) Discussion on bandwidth aggregation for positioning CATT discussion Rel-18

[R2-2309608](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309608%20LPP%20and%20RRC%20impacts%20to%20enable%20Carrier%20Phase%20Positioning.docx) LPP and RRC impacts to enable Carrier Phase Positioning CATT discussion Rel-18

[R2-2309671](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309671%20RAN2-related%20issues%20about%20bandwidth%20aggregation.docx) RAN2-related issues about bandwidth aggregation vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2309893](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309893%20Discussion%20on%20RAN1%20led%20positioning%20topics.docx) Discussion on RAN1 led positioning topics Huawei, HiSilicon discussion

[R2-2310346](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310346-on-demand-prs-aggregation-v0.docx) On PRS bandwidth aggregation Apple discussion Rel-18 NR\_pos\_enh2

[R2-2310417](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310417%20Discussion%20on%20carrier%20phase%20positioning%20and%20bandwidth%20aggregation%20for%20positioning.doc) Discussion on carrier phase positioning and bandwidth aggregation for positioning Xiaomi discussion

[R2-2310542](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310542%20Discussion%20on%20BW%20aggregation%20and%20RedCap%20positioning.docx) Discussion on BW aggregation and RedCap positioning ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2310761](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310761_RedCap.docx) Discussion on Frequency hopping for Positioning for RedCap Ues Sony discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2310825](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310825%20R18%20NR%20POS%20A725%20Others.doc) Discussion on positioning for RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning InterDigital Inc. discussion Rel-18

[R2-2310859](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310859%20RAN1LedTopic.docx) Discussion based upon RAN1 agreements on CPP, RedCap, Bandwidth aggregation Ericsson discussion Rel-18

[R2-2310916](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310916_%28PRS%20Aggregation%29.docx) Configuration Enhancements for DL-PRS Aggregation Qualcomm Incorporated discussion

## 7.9 Enhanced NR Sidelink Relay

(NR\_SL\_relay\_enh-Core; leading WG: RAN2; REL-18; WID: [RP-223501](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223501.zip))

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

### 7.9.1 Organizational

Including incoming LSs and rapporteur inputs.

Open issues document

[R2-2309755](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309755%20remaining%20open%20issues%20for%20SL%20relay.docx) Report of [Post123][Relay] Remaining open issues (LG) LG Electronics France report Rel-18 NR\_SL\_relay\_enh-Core

Running CRs

[R2-2309683](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309683%20-%20Running%20CR%20of%20TS%2038.351%20for%20SL%20Relay%20enhancement.docx) Running CR of TS 38.351 for SL Relay enhancement OPPO draftCR Rel-18 38.351 17.6.0 B NR\_SL\_relay\_enh-Core

[R2-2309911](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309911_38.331_CR%234317_Rel-18_SL_relay_service_continuity.docx) Introduction of Rel-18 SL relay service continuity MediaTek Inc CR Rel-18 38.331 17.6.0 4317 - B NR\_SL\_relay\_enh-Core

[R2-2310166](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310166%20Draft%2038.323%20running%20CR%20for%20enhanced%20NR%20sidelink%20relay.docx) Draft 38.323 running CR for enhanced NR sidelink relay InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

R2-2310359 Running CR of TS 38.321 for SL Relay enhancement Apple draftCR Rel-18 38.321 17.6.0 B NR\_SL\_relay\_enh-Core Late

[R2-2310484](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310484%20RRC%20running%20CR%20for%20Rel-18%20multi-path%20support.docx) RRC running CR for Rel-18 multi-path support Huawei, HiSilicon draftCR Rel-18 38.331 17.6.0 B NR\_SL\_relay\_enh-Core R2-2309310

[R2-2310485](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310485%20RRC%20open%20issues%20for%20Rel-18%20Multi-path.docx) RRC open issues for Rel-18 Multi-path Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2311025](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311025%20-%2038.304_draftCR_Introduction%20of%20Rel-18%20support%20for%20SL%20Relay%20Enhancements.docx) Introduction of Rel-18 support for SL Relay Enhancements Ericsson España S.A. draftCR Rel-18 38.304 17.6.0 B NR\_SL\_relay\_enh

[R2-2311264](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311264_Introduction%20of%20NR%20sidelink%20U2U%20relay.docx) Introduction of NR sidelink U2U relay vivo draftCR Rel-18 38.331 17.6.0 B NR\_SL\_relay\_enh-Core

* [AT123bis][408][Relay] SRAP CR (OPPO)

 Scope: Check and update the Rel-18 relay CR to 38.351.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][409][Relay] Relay RRC CR on service continuity (MediaTek)

 Scope: Check and update the Rel-18 relay CR to 38.331 on service continuity.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][410][Relay] Relay PDCP CR (InterDigital)

 Scope: Check and update the Rel-18 relay CR to 38.323.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][411][Relay] Relay MAC CR (Apple)

 Scope: Check and update the Rel-18 relay CR to 38.321.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][412][Relay] Relay RRC CR on multi-path (Huawei)

 Scope: Check and update the Rel-18 relay CR to 38.331 on multi-path relay.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][413][Relay] Relay idle mode CR (Ericsson)

 Scope: Check and update the Rel-18 relay CR to 38.304.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

* [AT123bis][414][Relay] Relay RRC CR on UE-to-UE (vivo)

 Scope: Check and update the Rel-18 relay CR to 38.331 on UE-to-UE relay.

 Intended outcome: Endorsable CR

 Deadline: Thursday 2023-10-12 2000 CST

### 7.9.2 UE-to-UE relay

Single-hop Layer-2 and Layer-3 UE-to-UE relay for unicast. Including common L2/L3 functionality comprising relay discovery and (re)selection and L2-specific functionality including adaptation layer design, control plane procedures, and QoS handling if needed.

Including report of [Post123][406][Relay] Local ID in SRAP (OPPO)

Email discussion report

[R2-2309905](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309905%20-%20Summary%20of%20%5BPost123%5D%5B406%5D%5BRelay%5D%20Local%20ID%20in%20SRAP%20%28OPPO%29.docx) Summary of [Post123][406][Relay] Local ID in SRAP (OPPO) OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

P3/P4/P5/P6/P7/P8

[R2-2310405](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310405-Remaining%20issues%20for%20U2U%20relay.docx) Remaining issues for U2U relay operation LG Electronics Inc. discussion Rel-18

P1/P2/P3/P4/P5/P6/P7/P8a/P8b/P9/P10/P11 (some topics may go to offline)

[R2-2309975](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309975_Discussion%20on%20U2U%20Relay%20discovery%20and%20%28re%29selection.doc) Discussion on U2U Relay discovery and (re)selection ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

Potential SA2 issue on local ID management

[R2-2309613](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309613%20Cross%20Group%20Issue%20for%20U2U%20Relay.docx) Cross Group Issue for U2U Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

Other documents

[R2-2309612](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309612%20Disussion%20on%20U2U%20Relay.docx) Discussion on U2U Relay CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309679](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309679%20-%20Discussion%20on%20control%20plane%20procedure%20of%20U2U%20Relay.docx) Discussion on control plane procedure of U2U relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309680](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309680%20-%20Discussion%20on%20user%20plane%20procedure%20of%20U2U%20Relay.docx) Discussion on user plane procedure of U2U relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309817](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309817%20Discussion%20on%20CP%20aspects%20for%20U2U%20relay.docx) Discussion on CP aspects for U2U relay Xiaomi discussion

[R2-2309822](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309822_Remaining%20issues%20on%20U2U%20relay.docx) Remaining issues on U2U relay vivo discussion

[R2-2309885](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309885%20Remaining%20issues%20on%20AS%20layer%20configuration%20for%20L2%20U2U%20Relay.docx) Remaining issues on AS layer configuration for L2 U2U Relay ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309886](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309886%20Remaining%20issues%20on%20PC5%20radio%20link%20failure%20and%20PC5%20link%20release.docx) Remaining issues on PC5 radio link failure and PC5 link release ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309887](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309887%20Remaining%20issue%20on%20E2E%20PC5-RRC%20procedures.docx) Remaining issue on E2E PC5-RRC procedures ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309901](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309901%20Discussion%20on%20U2U%20relay_2.doc) Discussion on U2U relay Fujitsu discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309927](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309927%20Discussion%20on%20L2%20U2U%20relay%20v1.0.docx) Discussion on L2 U2U relay Lenovo discussion Rel-18

[R2-2309970](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309970%20Control%20plane%20issues%20for%20L2%20U2U%20relay.doc) Control plane issues for L2 U2U relay Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309976](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309976_Discussion%20on%20U2U%20relay%20L2%20specific%20functionality.doc) Discussion on U2U relay L2-specific functionality ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310012](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310012%20Discussion%20on%20UE-to-UE%20relay.doc) Discussion on UE-to-UE Relay Spreadtrum Communications discussion Rel-18

[R2-2310093](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310093%20Discussion%20on%20remaining%20issue%20of%20U2U%20relay.docx) Discussion on remaining issue of U2U relay NEC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310139](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310139%20Open%20issues%20on%20QoS.docx) Open issues on QoS for U2U Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay\_enh-Core

[R2-2310167](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310167%20%28R18%20SL%20Relay%20WI_AI792%20U2U%20Relays_Open%29.doc) Open Issues on Discovery, Relay Selection, and SRAP for UE to UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310168](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310168%20%28R18%20SL%20Relay%20WI_AI792%20U2U%20Relay_QoS%29.doc) QoS and Configuration for L2 UE-to-UE Relays InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310226](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310226%2BDiscussion%20on%20the%20remaining%20issues%20on%20L2%20U2U%20relay.doc) Discussion on the remaining issues on L2 U2U relay China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310256](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310256%20Discussion%20on%20U2U%20SL%20relay.docx) Discussion on U2U SL relay CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310348](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310348%20Discussion%20on%20U2U%20relay%20issues.doc) Discussion on remaining issues on UE-to-UE Relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310406](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310406-Control%20plane%20procedure%20for%20U2U%20relay.docx) Control plane procedure for U2U relay operation LG Electronics Inc. discussion Rel-18

[R2-2310486](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310486%20Discussion%20on%20UE-to-UE%20relay.doc) Discussion on UE-to-UE relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310597](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310597.docx) Discussion on Open Issues for U2U relay RRC Beijing Xiaomi Mobile Software discussion Rel-18 38.331 NR\_SL\_relay\_enh-Core

[R2-2310613](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310613%20Open%20issues%20on%20U2U.docx) Open issues on U2U Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay\_enh-Core

[R2-2310770](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310770.doc) UE-to-UE relay (re)selection Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2310779](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310779-Open%20issues%20for%20Discovery%20and%20Relay%20%28re%29selection.docx) Open issues for Discovery and Relay (re)selection Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2310780](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310780-%20Layer-2%20specific%20part%20on%20U2U%20Relay.docx) Layer-2 specific part on U2U Relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2310925](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310925_Discussion_on_Relay_reselection_Discovery.docx) Discussion on Relay (re)selection and Discovery Ericsson España S.A. discussion Rel-18

[R2-2310926](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310926_Control_Plane_Procedures_for_L2_U2U_relays.docx) Control Plane Procedures for Layer 2 UE-to-UE Relays Ericsson España S.A. discussion Rel-18

[R2-2311017](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311017_SL%20Relay_U2U_OpenIssues_FhG.docx) Discussion on remaining issues on U2U Relaying Fraunhofer IIS, Fraunhofer HHI discussion Rel-18 NR\_SL\_relay\_enh

[R2-2311038](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311038_U2U_relay.docx) Considerations for U2U L2 relay operations Kyocera discussion

[R2-2311114](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CDocs%5CR2-2311114.zip) Discussion on U2U relay Kyoto University, SHARP discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2311174](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311174%20SRAP%20design%20for%20U2U%20sidelink%20relay.docx) SRAP design for U2U Sidelink Relay: remaining issues Samsung R&D Institute UK discussion

[R2-2311175](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311175-U2U.doc) remaining issues for U2U relay Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

### 7.9.3 Service continuity enhancements for L2 UE-to-network relay

Inter-gNB direct/indirect path switching; intra-gNB indirect/indirect path switching; and inter-gNB indirect/indirect path switching, to be supported by reuse of solutions for the other scenarios.

Idle/inactive relay

[R2-2310349](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310349%20Path%20switching%20to%20IDLE%20or%20INACTIVE%20relay%20UE.doc) Discussion on path switching to IDLE/INACTIVE relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core R2-2307856

Measurement events and emergency cause value

[R2-2309823](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309823_Remaining%20issues%20on%20service%20continuity%20enhancement%20for%20L2%20U2N%20relay.docx) Remaining issues on service continuity enhancement for L2 U2N relay vivo discussion

Section 2.3

[R2-2310702](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310702%20SL%20Relay%20Service%20Continuity.docx) SL Relay service continuity considerations Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309614](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309614%20Further%20Consideration%20on%20Service%20Continuity%20Enhancements.docx) Further Consideration on Service Continuity Enhancements CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309971](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309971%20Discussion%20on%20L2%20U2N%20Relay%20service%20continuity.doc) Discussion on L2 U2N Relay service continuity Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309977](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309977_Remaining%20issues%20on%20service%20continuity.doc) Further discussion on service continuity for SL relay ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310227](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310227%20Additional%20text%20proposal%20for%20the%20introduction%20of%20R18%20SL%20relay%20service%20continuity%20in%20TS%2038.331.docx) Additional text proposal for the introduction of R18 SL relay service continuity in TS 38.331 China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310257](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310257%20Remaining%20issues%20on%20service%20continuity.docx) Remaining issues on service continuity CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310286](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310286_Discussion%20on%20Remaining%20Issues%20of%20Service%20Continuity.docx) Discussion on Remaining Issues of Service Continuity NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310771](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310771.doc) Service continuity enhancements for UE sidelink relay Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2310927](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310927_Discussion_on_Inter_gNB_Service_Continuity.docx) Discussion on Inter-gNB Service Continuity Ericsson España S.A. discussion Rel-18

[R2-2311008](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311008.docx) Discussion on Service Continuity Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2311176](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311176-SLR_enh_core%20Remaining%20issues%20for%20i2i%20path%20switching.doc) Remaining issues for i2i path switching Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

### 7.9.4 Multi-path relaying

Mechanisms to support multi-path scenarios where a UE is connected to the same gNB using one direct path and one indirect path via 1) Layer-2 UE-to-Network relay, or 2) via another UE (where the UE-UE inter-connection is assumed to be ideal). This agenda item will include a rapporteur contribution summarising open issues from RAN2#121 (invited contribution not counted against the tdoc limit).

Including report of [Post123][407][Relay] Path addition/change in multi-path for scenario 1 (Apple)

Email discussion report

[R2-2310350](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310350%20Summary%20of%20Path%20addition-change%20in%20MP%20Scenario1%20V25_Rapp_final.docx) Summary of [Post123][407][Relay] Path addition/change in multi-path for Scenario 1 Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

Case G in scenario 2 (discussed jointly)

[R2-2310258](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310258%20Discussion%20on%20indrect%20path%20change%20in%20scenario%202.docx) Discussion on indrect path change in scenario 2 CMCC, Huawei, HiSilicon, Qualcomm, ZTE, NEC, Samsung, Lenovo discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310351](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310351%20Discussion%20on%20indirect-path%20change%20in%20Scenario%202_r2.doc) Discussion on Case G Support in Multi-path Scenario 2 Apple, Ericsson, Nokia, Nokia Shanghai Bell, Kyocera, LG Electronics discussion Rel-18 NR\_SL\_relay\_enh-Core

P1-P12

[R2-2310781](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310781-open%20issues%20for%20MP%20relay.docx) Open issues on multi-path relay for scenario 1 and scenario 2 Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

Other documents

[R2-2309588](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309588%20Discussion%20on%20Path%20addition%20and%20change%20for%20multipath%20Scenario-1.docx) Discussion on Path addition and change for multipath Scenario-1 NEC discussion NR\_SL\_enh2

[R2-2309615](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309615_Remaining%20issues%20on%20Multi-path.docx) Remaining issues on Multi-path CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309681](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309681%20-%20Discussion%20on%20control%20plane%20procedure%20of%20multi-path%20Relay.docx) Discussion on control plane procedure of multi-path relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309682](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309682%20-%20Discussion%20on%20user%20plane%20procedure%20of%20multi-path%20Relay.docx) Discussion on user plane procedure of multi-path relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309756](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309756%20Discussion%20on%20issues%20for%20Multi-path%20relaying.doc) Discussion on remaining issues for multi-path relaying LG Electronics France discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309804](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309804.docx) Discussion on multi-path scenario 1 Xiaomi discussion

[R2-2309805](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309805.docx) Discussion on multi-path scenario 2 Xiaomi discussion

[R2-2309824](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309824_Remaining%20Issues%20for%20Multi-path.docx) Remaining Issues for Multi-path vivo discussion

[R2-2309825](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309825_Authorization%20for%20Multi-path%20Scenario%202.docx) Authorization for Multi-path Scenario 2 vivo, Qualcomm incorporated discussion

[R2-2309888](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309888%20Remaining%20issue%20on%20BSR%20reporting%20for%20Multi-path%20Scenario%202.docx) Remaining issue on BSR reporting for Multi-path Scenario 2 ASUSTeK discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309928](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309928%20Failure%20handling%20in%20indirect%20path%20addition%20and%20change%20v2.0.docx) Failure handling in indirect path addition and change Lenovo discussion Rel-18

[R2-2309929](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309929%20Discussion%20on%20direct%20path%20addition%20v1.0.docx) Discussion on direct path addition Lenovo discussion Rel-18

[R2-2309978](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309978%20Further%20discussion%20on%20the%20support%20of%20multi-path%20relaying.docx) Further discussion on the support of multi-path relaying ZTE, Sanechips discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2309980](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309980_SLRelay_v1.0.docx) Discussion on remaining issues on multiple path for sidelink relay Samsung discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310013](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310013%20Discussion%20on%20multi-path%20relaying.doc) Discussion on multi-path relaying Spreadtrum Communications discussion Rel-18

[R2-2310160](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310160%20Discussion%20on%20Multi-path%20relaying.docx) Discussion on Multi-path relaying Lenovo discussion NR\_SL\_relay\_enh-Core

[R2-2310169](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310169%20%28R18%20SL%20Relay%20WI_AI794%20MultipathAspects_UP%29.doc) Remaining User Plane Aspects for Multipath InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310170](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310170%20%28R18%20SL%20Relay%20WI_AI794%20MultipathAspects_CP%29.doc) Remaining Control Plane Aspects for Multipath InterDigital discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310259](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310259%20Remaining%20issues%20on%20multi-path.docx) Remaining issues on multi-path CMCC discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310287](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310287_Discussion%20on%20UP%20Issues%20of%20Multi-path%20Relaying.docx) Discussion on UP Issues of Multi-path Relaying NEC Corporation discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310352](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310352%20Discussion%20on%20remaining%20issues%20on%20Multi-path.doc) Discussion on remaining issues for Multi-path Relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310468](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310468_Discussion%20on%20multi-path%20scenario%201_III.docx) Discussion on multi-path scenario 1 III discussion NR\_SL\_relay\_enh

[R2-2310487](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310487%20CP%20remaining%20issues%20on%20multi-path%20operation.docx) CP remaining issues on multi-path operation Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310488](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310488%20UP%20remaining%20issues%20on%20multi-path%20operation.docx) UP remaining issues on multi-path operation Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310772](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310772.doc) Multi-path relaying discussion Sony discussion Rel-18 NR\_SL\_relay\_enh

[R2-2310815](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310815%20Discussion%20on%20control%20plane%20open%20issues%20of%20multi-path%20relaying.docx) Discussion on control plane open issues of multi-path relaying China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2310876](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310876%20DIscussion%20on%20Mpath.docx) Discussion on Multi-path Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay\_enh-Core

[R2-2310928](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310928_Discussion_on_multipath%20relays.docx) Discussion on Multipath Relays Ericsson España S.A. discussion Rel-18

[R2-2311039](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311039_multipath_relay.docx) Considerations for multipath relay operations for Scenario 1 Kyocera discussion

[R2-2311109](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311109%20Discussion%20on%20user%20plane%20open%20issues%20of%20multi-path%20relaying.docx) Discussion on user plane open issues of multi-path relaying China Telecom discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2311177](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311177-MP1.doc) remaining issues for multi-path relay Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2311178](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2311178-MP2.doc) scenario 2 specific issues for multi-path relay Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

### 7.9.5 DRX

Study the gains and, if needed, specify signalling between gNB and relay UE in sidelink mode 2 to assist the determination of the sidelink DRX configuration used for remote UE. This agenda item will be handled at lower priority.

## 7.24 TEI18

Specific items may be allocated to a breakout session for treatment.

Time budget: 1 TU

### 7.24.1 TEI proposals by Other Groups

Items initiated by other groups that is/has been communicated by LS, where the other group indicate this is TEI18. (Specific other-group-WIs should use the R18 Other Agenda Item below).

### 7.24.2 TEI proposals by RAN2

Items initiated in RAN2 for NR and LTE.

Tdoc limitation: 1 tdoc, limitation only applicable for non-previously-agreed-to-be-considered TEI proposals.
proposals that has been agreed or agreed to be considered are not limited by the tdoc limitation.

[R2-2309684](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309684%20-%20Discussion%20on%20emergency%20cause%20value%20for%20SL%20Relay.docx) Discussion on emergency cause value for SL Relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core, TEI18

[R2-2309795](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2309795_Discussion%20on%20MUSIM%20paging%20cause%20forwarding.docx) Discussion on MUSIM paging cause forwarding vivo discussion Rel-18

[R2-2310544](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310544%20Discussion%20on%20issues%20for%20SFN-DFN%20offset%20procedure%20in%2038.331.docx) Discussion on issues for SFN-DFN offset procedure in 38.331 ZTE Corporation discussion Rel-18 TEI18

[R2-2310855](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310855%20Relay.docx) Forwarding on posSIBs relaying to remote UE [PosL2RemoteUE] Ericsson CR Rel-18 38.331 17.6.0 4354 - B TEI18

## 7.25 R18 Other

Specific items may be allocated to a breakout session for treatment.

Impacts from Other RAN WGs and TSGs that has no separate TU budget in RAN2. LS ins for Rel-18 specific WIs/SIs that has no RAN WI.

Time budget: 2 TU

Tdoc Limitation: -

### 7.25.1 RAN4 led items

### 7.25.2 RAN1 led items

E.g. MC enhancements, DSS

### 7.25.3 Other

RAN3, SA2, SA3, CT1 led items and others, e.g. eNPN, Slicing.

PRUs (considered in offline [402])

R2-2310854 On the Positioning Reference Units aspects [PRU] Ericsson, vivo discussion Rel-18

[R2-2310920](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202310%20-%20RAN2_123bis%2C%20Xiamen%5CExtracts%5CR2-2310920_%28PRU%20Stage%202%29.docx) Clarification of PRU measurement reporting Qualcomm Incorporated CR Rel-18 38.305 17.6.0 0146 - C 5G\_eLCS\_Ph3