3GPP TSG-RAN WG2 Meeting #125bis R2-24xxxxx

Changsha, China, April 15th – 19th, 2024

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.

Tdoc Limitation: 1 tdocs

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 3 tdocs in total for all sub agenda items NOTE: some agenda items have additional Tdoc limits.

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)

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.

Tdoc Limitation: 1 tdocs

R2-2402455 Correction to on-demand SIB request in RRC\_CONNECTED for RTK Huawei, HiSilicon CR Rel-16 38.331 16.16.0 4658 - F NR\_pos-Core

* Revised in R2-2403700

[R2-2403700](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403700%20Correction%20to%20on-demand%20SIB%20request.docx) Correction to on-demand SIB request for RTK Huawei, HiSilicon CR Rel-16 38.331 16.16.0 4658 1 F NR\_pos-Core

[R2-2402456](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402456%20Correction%20to%20on-demand%20SIB%20request%20for%20RTK%20in%20r17.docx) Correction to on-demand SIB request for RTK in R17 Huawei, HiSilicon CR Rel-17 38.331 17.8.0 4659 - A NR\_pos-Core

* Revised in R2-2403701

[R2-2403701](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403701%20Correction%20to%20on-demand%20SIB%20requestt.docx) Correction to on-demand SIB request for RTK Huawei, HiSilicon CR Rel-17 38.331 17.8.0 4659 1 A NR\_pos-Core

[R2-2402457](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402457%20Correction%20to%20on-demand%20SIB%20request%20for%20RTK%20in%20r18.docx) Correction to on-demand SIB request for RTK in R17 Huawei, HiSilicon CR Rel-18 38.331 18.1.0 4660 - A NR\_pos-Core

* Revised in R2-2403702

[R2-2403702](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403702%20Correction%20to%20on-demand%20SIB%20request.docx) Correction to on-demand SIB request for RTK Huawei, HiSilicon CR Rel-18 38.331 18.1.0 4660 1 A NR\_pos-Core

[R2-2403559](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403559%20SBASF.docx) RIL E138 SBAS-ID Field Description Correction Ericsson, ZTE Corporation CR Rel-16 38.331 16.16.0 4756 - F NR\_pos-Core

[R2-2403528](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403528%20SBASAa.docx) SBAS-ID Field Description Correction Ericsson, ZTE Corporation CR Rel-17 38.331 17.8.0 4753 - A NR\_pos-Core

[R2-2403527](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403527%20SBASA.docx) RIL E138 SBAS-ID Field Description Correction Ericsson, ZTE Corporation CR Rel-18 38.331 18.1.0 4752 - A NR\_pos-Core

[R2-2403553](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403553%20capF.docx) Missing Conditionally mandatory features without UE radio access capability parameters for 80ms scheduling offset for positioning SI acquisition Ericsson CR Rel-16 38.306 16.16.0 1087 - F NR\_pos-Core

[R2-2403558](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403558%20capAa.docx) Missing Conditionally mandatory features without UE radio access capability parameters for 80ms scheduling offset for positioning SI acquisition Ericsson CR Rel-17 38.306 17.8.0 1088 - A NR\_pos-Core

[R2-2403524](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403524%20capA.docx) Missing Conditionally mandatory features without UE radio access capability parameters for 80ms scheduling offset for positioning SI acquisition Ericsson CR Rel-18 38.306 18.1.0 1086 - A NR\_pos-Core

# 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: 1 tdoc

R2-2402513 Clarification on the Remote UE behaviour on short message monitoring CATT CR Rel-17 38.331 17.8.0 4665 - F NR\_SL\_relay-Core

[R2-2402514](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5C38331_CR4666_%28Rel-18%29_R2-2402514_Clarification%20on%20the%20remote%20UE%20behavior%20on%20short%20message%20monitoring.docx) Clarification on the Remote UE behaviour on short message monitoring CATT CR Rel-18 38.331 18.1.0 4666 - A NR\_SL\_relay-Core

[R2-2402678](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5C38331_CR4682_%28Rel-17%29_R2-2402678%20Miscellaneous%20RRC%20corrections%20for%20R17%20SL%20relay.docx) Miscellaneous RRC corrections for Rel-17 SL relay Huawei, HiSilicon CR Rel-17 38.331 17.8.0 4682 - F NR\_SL\_relay-Core

[R2-2402679](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5C38331_CR4683_%28Rel-18%29_R2-2402679%20Miscellaneous%20RRC%20corrections%20for%20SL%20relay.docx) Miscellaneous RRC corrections for SL relay Huawei, HiSilicon CR Rel-18 38.331 18.1.0 4683 - A NR\_SL\_relay-Core

[R2-2403309](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403309_SRAP-related%20corrections%20to%2038300.docx) SRAP-related corrections to 38.300 Samsung CR Rel-17 38.300 17.8.0 0787 1 F NR\_SL\_relay-Core R2-2400557

[R2-2403652](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403652_SRAP-related%20corrections%20to%2038300.docx) SRAP-related corrections to 38.300 Samsung CR Rel-18 38.300 18.1.0 0788 2 A NR\_SL\_relay-Core R2-2400558

[R2-2403398](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2403398.zip) Correction on SidelinkUEInformationNR Philips International B.V. CR Rel-17 38.331 17.8.0 4731 - F NR\_SL\_relay-Core

[R2-2403400](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2403400.zip) Correction on SidelinkUEInformationNR Philips International B.V. CR Rel-18 38.331 18.1.0 4732 - A NR\_SL\_relay-Core

[R2-2403474](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403474%2038331_Corrections%20for%20SL%20relay-r17.docx) Corrections for SL relay ZTE, Sanechips CR Rel-17 38.331 17.8.0 4747 - F NR\_SL\_relay-Core

[R2-2403475](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403475%2038331_Corrections%20for%20SL%20relay-mirror.docx) Corrections for SL relay ZTE, Sanechips CR Rel-18 38.331 18.1.0 4748 - A NR\_SL\_relay-Core

Not available/Withdrawn

R2-2403310 SRAP-related corrections to 38.300 Samsung CR Rel-18 38.300 18.1.0 0788 1 A NR\_SL\_relay-Core R2-2400558 Withdrawn

## 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: 1 tdoc

R2-2402458 Correction on the UL TEG report Huawei, HiSilicon CR Rel-17 38.331 17.8.0 4661 - F NR\_pos\_enh-Core

[R2-2402459](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402459%20Correction%20on%20the%20UL%20TEG%20report%20for%20R18.docx) Correction on the UL TEG report Huawei, HiSilicon CR Rel-18 38.331 18.1.0 4662 - A NR\_pos\_enh-Core

[R2-2403387](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2403387.zip) Correction on posSIB(s) acquisition [SI-SCHEDULING] Philips International B.V., Ericsson CR Rel-17 38.331 17.8.0 4467 1 F NR\_pos\_enh-Core R2-2313100

[R2-2403388](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2403388.zip) Correction on posSIB(s) acquisition [SI-SCHEDULING] Philips International B.V., Ericsson CR Rel-18 38.331 18.1.0 4725 - A NR\_pos\_enh-Core

[R2-2403525](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403525%20MACA.docx) Correction of when to cancel the triggered SR for positioning measurement gap activation/deactivation Ericsson CR Rel-18 38.321 18.1.0 1825 - A NR\_pos\_enh-Core

[R2-2403526](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403526%20MACF.docx) Correction of when to cancel the triggered SR for positioning measurement gap activation/deactivation Ericsson CR Rel-17 38.321 17.8.0 1826 - F NR\_pos\_enh-Core

R2-2403740 Introduction of NR UE Rx-Tx time difference measurement in NR UL E-CID Ericsson, Polaris Wireless, China Telecom, NTT Docomo, AT&T, FirstNet, Intel, Comtech, Nokia, Nokia Shanghai Bell, Verizon Wireless, Huawei, ZTE CR Rel-18 38.305 18.1.0 0164 1 F NR\_pos\_enh-Core, TEI18

# 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: 0 TU

Tdoc Limitation: 4 tdocs

### 7.2.1 Organizational

Including incoming LSs and rapporteur inputs. CR rapporteurs are asked to continue maintaining an open issues list reflecting known issues to be handled during the maintenance phase.

Incoming LS with RAN2 in Cc:

[R2-2402141](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2402141.zip) Reply LS on UE selection for Ranging\_SL (S2-2403682; contact: Qualcomm) SA2 LS in Rel-18 Ranging\_SL To:CT1 Cc:RAN2

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

[R2-2402106](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402106_R1-2401552.docx) Reply LS on MAC agreements for SL Positioning (R1-2401552; contact: Intel) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2

[R2-2402108](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402108_R1-2401708.doc) LS on bandwidth aggregation for positioning (R1-2401708; contact: ZTE) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2, RAN3

[R2-2402121](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402121_R1-2401827.docx) LS on higher layer parameters for SL Positioning (R1-2401827; contact: Intel, Qualcomm) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2

[R2-2402127](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402127_R4-2403363.docx) Updates on measurement report mapping for Positioning Enhancements WI (R4-2403363; contact: Huawei) RAN4 LS in Rel-18 NR\_pos\_enh2 To:RAN2, RAN3 Cc:RAN1

Other incoming LSs and related inputs (note: RAN2 are in Cc: but have an action in R2-2402133)

[R2-2402118](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402118_R1-2401801.docx) LS on the bandwidth used in measurements for positioning of RedCap UEs (R1-2401801; contact: Ericsson) RAN1 LS in Rel-18 NR\_pos\_enh2 To:RAN2,RAN4

[R2-2403532](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403532%20RedcapLS.docx) Bandwidth used in measurements for positioning of RedCap Ues Ericsson discussion Rel-18

[R2-2402133](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402133_R4-2403654.docx) LS on SRS and PRS bandwidth aggregation feature for positioning (R4-2403654; contact: Ericsson) RAN4 LS in Rel-18 NR\_pos\_enh2 To:RAN1 Cc:RAN2

[R2-2403536](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403536%20BWACapLS.docx) On SRS and PRS bandwidth aggregation feature for positioning Ericsson discussion Rel-18

Draft LS out [measurement report issue to be discussed under LPP agenda item]

[R2-2402258](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402258%20Questions%20on%20PRS%20and%20SRS%20bandwidth%20aggregation.docx) Questions on PRS and SRS bandwidth aggregation CATT LS out Rel-18 NR\_pos\_enh2 To:RAN1 Cc:RAN4

RIL/open issue lists [note: RRC RIL list is in AI 7.2.5 and SLPP open issue list is in AI 7.2.3]

[R2-2402255](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2402255.zip) LPP RIL list for Rel-18 Positioning CATT discussion Rel-18 NR\_pos\_enh2

* Revised in R2-2403721

[R2-2403721](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2403721.zip) LPP RIL list for Rel-18 Positioning CATT discussion Rel-18 NR\_pos\_enh2

Discussion:

Qualcomm think the PRU-related RILs need some more discussion in connection with the definition, the use of locationInformationType, and the capability, and these should not be PropAgree/PropReject yet.

CATT indicate that from the rapporteur’s perspective, they think we can reach a conclusion on these items during the meeting, and the three PRU RILs can be discussed under the contribution from Huawei.

Intel agree that it is OK to move these issues to ToDo.

Agreements:

M001, A006, and H001 move to ToDo.

Other PropAgree/PropReject RILs from R2-2403721 move to Agreed/Rejected respectively.

[R2-2403533](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403533%20RRCOpenIssueList.docx) Open issues list For RRC Positioning Ericsson discussion Rel-18

* Noted

[R2-2402257](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402257%20Leftover%20Issues%20on%20LPP.docx) Leftover Issues on LPP CATT discussion Rel-18 NR\_pos\_enh2

Proposal 1: Stage 3 impact is not specified any more to align PRS to fixed (e)DRX.

Discussion:

ZTE note that this issue is in the WID, and “best effort” does not mean we do not do anything. They understand that the UE reporting an offset is essential.

Intel think having the issue in the WID does not mean we have to have spec impact, and based on the existing on-demand PRS request, they understand that the UE can indicate the periodicity and the slot offset.

Samsung think the slot offset is not there and should be introduced to meet the alignment objective.

OPPO understood from CATT’s paper that the PO of the UE could be derived based on the UE’s ID by the gNB; they agree with CATT’s interpretation.

Ericsson support the proposal and think the UE can already request the start time to align with its DRX cycle.

vivo also agree with the proposal, and think we should avoid introducing a new UE capability to allow a new parameter in the on-demand PRS request. They also think we can follow the guidance from the network vendors.

Intel indicate that in Rel-17 we have two forms of request, and the periodicity and slot offset are there in the request matching a network configuration; the slot offset is not there in the second mode.

CATT understand that the offset can be determined by the RAN implementation without assistance from the UE. Xiaomi agree and support the proposal.

Qualcomm cannot see how the alignment can be supported without information from the UE; they think it is straightforward to add the slot offset in the request.

Ericsson think the start time in the request is sufficient. They also note that PRS is a shared resource and different UEs may request it at different times, and the network has to take all the requests into consideration. Qualcomm think this is not different from Rel-17, where the UE requests something and the network makes an effort to balance all requests; but here they think the start time does not define a slot offset but the time when the configuration should be switched on.

Qualcomm indicate the resolution of the start time is in seconds, so it will not work for a slot offset.

Sony agree the PRS configuration is a shared resource, and they do not see the value in adapting PRS to DRX rather than the other way around. Intel understand this is why it is best effort; the network cannot align exactly for every UE.

CATT agree with Intel and think the server can work with assistance information from the gNB; the PO can be calculated by the server and the RAN. Qualcomm wonder how the LMF would get this information from the gNB. CATT understand that the server could calculate the PO independently based on the UE ID, which could be provided by OAM. Ericsson agree that the configuration is somewhat static and could be described based on OAM.

Qualcomm think this would mean every on-demand PRS request forces alignment with DRX; the server has no way to know for what purpose the UE requests the configuration.

Intel understand the stage 2 only indicates that the UE can make the request so that PRS aligns with DRX, but it does not mean we have to have stage 3 impact to support it. Ericsson agree with Intel.

Chair thinks Qualcomm have a point that the server will not know when the UE needs alignment with DRX. Intel think the server could assume this for a UE supporting LPHAP.

Apple agree with Qualcomm and Samsung and would not like to see the situation where the UE sends the request and does not know what the server is going to do. They think we could ask RAN3 to add signalling support. Intel think anyway the UE does not know what the server will decide.

Samsung agree that the feature can be operated in a best-effort manner, but the UE should be able to provide enough information to the LMF to allow the LMF to align PRS with DRX if the LMF is willing to. Without the slot offset, they see that the LMF does not have enough information to do this.

CATT understand that the UE does not know if the server is going to align with DRX; it just sends the request to the server. So they do not see that Apple’s comment is connected to the availability of the offset.

Ericsson think what we have in the spec now works, but we could have some offline discussion.

Nokia understand we agreed that we align using the UE’s request, so they think it is better to have a standardized solution and they support adding the offset.

vivo recall that we had an LS from SA2 saying that the LMF will send an LPHAP indication to RAN, so the RAN will know that the UE supports LPHAP and can take the decision directly to match the DRX configuration.

Intel think vivo’s suggestion is a valid alternative. Qualcomm understand we agreed that we use the UE-initiated OD-PRS request for this feature, and if we do not support doing that, we should remove it from the stage 2 NOTE. They also note that the WI summary lists the feature.

Intel think we may need to change something in the stage 2 to reflect using the LPHAP indication.

Nokia understood the feature was intended for the UE to request a PRS configuration that matches the DRX, and the solution with the LPHAP indication has the RAN doing it instead.

Intel indicate that we agreed to support PRS aligning with DRX to avoid impact on other WGs, but RAN3 introduced the LPHAP indication and so they can already support the feature from that perspective.

Ericsson agree with Intel and note that for RRC\_INACTIVE, the gNB can match the DRX configuration.

OPPO understand that RAN3 discussed the indication but did not have a specific agreement to use it for alignment, and we should not be pursuing this feature in maintenance.

CATT wonder if we could take a WA for no stage 3 impact. Qualcomm think we do not need a WA in the maintenance phase, and this is a new feature that was not discussed before maintenance. They do think stage 3 support for the feature is missing, however, and if we do not have the stage 3 impact we should back it out from stage 2.

Intel think there was a compromise to reuse the OD-PRS request without stage 3 impact.

Ericsson think not every feature must have stage 3 impact, and we can indicate in stage 2 that the new feature uses legacy signalling; they also think the start time is sufficient.

Show of hands:

Option 1: Stage 3 impact is not specified any more to align PRS to fixed (e)DRX. (8)

Option 2: Introduce a slot offset in stage 3 to support alignment of PRS to fixed (e)DRX. (5)

Intel think we should consider documenting the LPHAP indication in stage 2.

Agreement:

Stage 3 impact is not specified any more to align PRS to fixed (e)DRX. Can consider towards next meeting if some modification is needed to the related NOTE in stage 2.

Proposal 2: Keep the existing IE structure of the request for location+measurements for LocationInformationType in CommonIEsRequestLocationInformation.

Discussion:

Qualcomm think P3 shows why a change is needed; they understand that “location+measurements” is not a location information type but a new reporting attribute, i.e., we should keep the existing location types and add the ability to indicate “include measurements as well”. They see the current structure as mixing concepts in a way that will create a mess, because other characteristics of the request like QoS apply only to the measurements, not to the whole location+measurements combination. They think it would be clearer to have an additional field in the message to request the PRU’s location along with the measurements.

Ericsson think what we have is clear, and this is in fact a new location type because it combines UE-based and UE-assisted; in any case there is a clear description of what is expected from the UE in the field description. They also think the support of shapes is not a problem because the PRU will indicate appropriate shape support.

CATT agree with Qualcomm that the location of the PRU is not based on the measurements, and the uncertainty of the PRU location should be provided to the server. They think it would be valid to have a separate location report for this purpose, and the dual purpose of the location report may be confusing to a reader.

OPPO wonder about P3, if it is truly invalid to have types without uncertainty; they think there may be cases where the precision is very high or not known by the PRU. CATT understand that RAN1 guidance for CPP is that the server needs the uncertainty to adjust the measurements. OPPO think nothing breaks if the location information has very low uncertainty.

Ericsson think the only case without an uncertainty would be if we chose to use a more compact representation; there is always an inherent uncertainty with a location estimate. They also note that there can be mobile PRUs, e.g., using RTK, and they see it as natural to provide the location and measurements in a combined location type in this case.

Intel understand that the mobile PRU case is valid, and the PRU never uses RAT-dependent positioning to derive its location. They think we have not actually excluded the case of the LMF requesting location+measurements for GNSS positioning, even though the UE is guided not to provide both the location and the measurements used to derive it.

Qualcomm see that it is not UE-based/UE-assisted combined, but more like UE-assisted and standalone. They think the current specification is ambiguous and it is not clear what the NOTE means; we also mix the “PRU” and “UE” terminology, and they think we should have a cleaner arrangement of the whole feature.

CATT agree with Qualcomm that it is not UE-based+UE-assisted, because the location given here is not from UE-based positioning. They would prefer a separate IE.

Lenovo understand that we need to differentiate the UE and PRU location information. They wonder if it is clear that the measurements were always taken at the provided location.

vivo think the current structure is good, and to Qualcomm’s concern about ambiguity, they think we will have similar explanatory language if we have a new indication too. They see the current structure as more forward-compatible if we have a feature later than requires both location and measurements. They also understand that the LMF knows the UE is a PRU.

Intel do not see the problem with the existing structure, and they think we would need the same language describing how a new indication applies to a PRU.

Samsung agree with vivo and Intel and think the current specification is not broken.

Qualcomm think the spec is broken in the sense of the PRU terminology.

Ericsson understand that the PRU terminology is used in different ways in the spec. They are not sure we need the term in stage 3 at all and think we could talk about UEs instead.

ZTE think PRU should be kept and this is not a normal UE feature. They indicate that the current spec has a capability for the target device to support location+measurements, and they think this should also be scoped specifically to PRUs.

Lenovo wonder if it is still clear that the location and measurements are linked, i.e., the measurements are always taken at that specific location. Qualcomm think we have not captured this. Nokia think that RAN1 indicated the location and measurements are decoupled, and they think adding a new IE as suggested by Qualcomm would clarify things.

Ericsson note that we have the capability for location+measurements, which informs the LMF effectively that the target device is a PRU, and this is the only place the distinction is captured in LPP.

Qualcomm think a PRU is a UE that supports certain features at the SS level, and it is not a target device or a target UE from the stage 2 point of view, because the PRU is not “to be positioned”.

Ericsson think the location+measurements capability differentiates between PRUs and non-PRUs. They understand that if a random non-PRU UE reports the capability, the LMF will not use it since it knows the UE is not a PRU.

Apple think the capability shall be specific to PRUs.

Nokia think if the capability is specific to PRUs, and we try to avoid referring to PRUs explicitly, it becomes confusing. On the linkage between location and measurements, they think we should check the RAN1 LS; they think it was indicated that the two are decoupled. Lenovo agree that they are decoupled in the sense of computing the location, but the measurements are valid at the location. OPPO think the decoupling is best-effort, in the sense that the location might not be determined at the same instant the measurements were taken. CATT think it is important for accuracy that the measurements be taken at the location.

Qualcomm think the alignment of location and measurements will not be best-effort but should actually be tested.

vivo see that we could capture the description from the RAN1 LS: The measurement and the location information should be decoupled, in the sense that the PRU location information is determined independently of the reported measurements. Qualcomm think we have not captured this restriction, and it is part of the general terminological problem.

CATT think the restriction on decoupling is captured in a NOTE under LocationInformationType. Qualcomm think this NOTE does not capture the intention correctly.

Intel think the remaining concerns are about the PRU terminology generally.

Qualcomm think the PRU is already defined in upper-layer specs, and it is not just a UE that can report location+measurements; a stationary PRU reports its location at registration and does not need to repeat it.

CATT think we can refer to the stage 2 definition of PRU in LPP.

* [AT125bis][401][POS] PRU terminology in LPP (CATT)

 Scope: Evaluate company views on the use of “PRU” terminology in 37.355, including how much detail to capture on the related agreements. Candidates for terminology to be drawn from company contributions.

 Discuss also P3 of R2-2402257.

 Intended outcome: Report to Thursday CB session

 Deadline: Wednesay 2024-04-18 2000 CST

Agreements:

In this release, the new capability on location+measurements is only for PRUs.

Keep the existing IE structure for LocationInformationType.

When location+measurements are reported by a PRU, the measurements are valid at the reported location.

Proposal 3: The PRU shall not support types in LocationCoordinates including Ellipsoid-Point, Polygon and EllipsoidPointWithAltitude which don't support uncertainty.

Rapporteur CRs

[R2-2402256](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402256%20Corrections%20to%20TS%2037.355.docx) Corrections to TS 37.355 CATT CR Rel-18 37.355 18.1.0 0500 - F NR\_pos\_enh2-Core

[R2-2403537](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403537%20RRC.docx) Miscellaneous RRC Positioning Corrections Ericsson CR Rel-18 38.331 18.1.0 4759 - F NR\_pos\_enh2

### 7.2.2 Stage 2

Impact to 38.300, 37.340, and 38.305. For each specification, a single CR with miscellaneous corrections is requested from the CR rapporteur; minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

This agenda item may be handled at lower priority.

R2-2402469 Correction to TS 38300 for R18 SL positioning Huawei, HiSilicon CR Rel-18 38.300 18.1.0 0835 - F NR\_pos\_enh2 Revised

* Revised in R2-2403625

[R2-2403625](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403625%20Correction%20to%20TS%2038300%20for%20SL%20positioning.docx) Correction to TS 38300 for SL positioning Huawei, HiSilicon CR Rel-18 38.300 18.1.0 0835 1 F NR\_pos\_enh2 R2-2402469

[R2-2402470](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402470%20Correction%20to%20TS%2038305%20for%20R18%20positioning.docx) Correction to TS 38305 for R18 positioning Huawei, HiSilicon CR Rel-18 38.305 18.1.0 0162 - F NR\_pos\_enh2

[R2-2402646](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402646%20Discussion%20on%20remaining%20corrections%20in%20stage-2.docx) Discussion on remaining corrections in stage-2 ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2403188](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403188_%28Misc%20Stage%202%20Corrections%29.docx) Miscellaneous Stage 2 Corrections Qualcomm Incorporated CR Rel-18 38.305 18.1.0 0163 - F NR\_pos\_enh2

[R2-2403500](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403500%20Pos%20RRC_INACTIVE.docx) Further clarifications for Positioning in RRC\_INACTIVE state Nokia discussion Rel-18 38.305 NR\_pos\_enh2-Core

[R2-2403535](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403535%20stage2.docx) Text Proposal for Stage2 TS 38.305 Ericsson discussion Rel-18

### 7.2.3 SLPP corrections

Impact to 38.355. A single CR with miscellaneous corrections is requested from the spec rapporteur; minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

Open issue list

R2-2402414 [Post125][407][POS] 38.355 updated Open Issue list Intel Corporation discussion Rel-18 NR\_pos\_enh2-Core

Agreement:

PropAgree/PropReject RILs from R2-2402414 are moved to Agreed/Rejected respectively.

Rapporteur CR

[R2-2402416](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402416%20Miscellaneous%20corrections%20to%20SLPP%20specification.docx) Miscellaneous corrections to SLPP specification Intel Corporation CR Rel-18 38.355 18.1.0 0003 - F NR\_pos\_enh2-Core

Contributions including RILs identified in R2-2402414 (S101, A006, H016, ZTE004, Q004, Rapp002)

[R2-2403261](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403261-%5BH016%5D%5BZTE004%5D%5BA006%5D%20SLPP%20corrections.docx) [H016][ZTE004][A006] SLPP corrections Nokia discussion Rel-18

[R2-2403189](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403189_%28SLPP%29.docx) Remaining issues for SLPP Qualcomm Incorporated discussion

[R2-2402415](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402415%20SLPP%20related%20open%20issues.docx) Further considerations on SLPP open issues Intel Corporation discussion Rel-18 NR\_pos\_enh2-Core

[R2-2402647](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402647%20Discussion%20on%20remaining%20corrections%20in%20SLPP.docx) Discussion on remaining corrections in SLPP ZTE Corporation discussion Rel-18 NR\_pos\_enh2

Other contributions

R2-2402465 Discussion on the remaining issues for R18 SLPP Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2 Late

[R2-2402517](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402517%20Discussion%20on%20the%20necessity%20of%20including%20the%20server%20UE%20positioning%20method%20in%20the%20discovery%20message.docx) Discussion on the necessity of including the server UE positioning method in the discovery message OPPO, LG discussion Rel-18 NR\_pos\_enh2 R2-2401464

[R2-2402555](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402555%20Correction%20on%20the%20maximum%20number%20of%20SL-PRS%20resource%20ID%20in%20ARP%20info.docx) Correction on the maximum number of SL-PRS resource ID in ARP info vivo draftCR Rel-18 38.355 18.1.0 F FS\_NR\_pos\_enh2

[R2-2402707](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402707%20Discussion%20on%20SLPP%20open%20issues-v1.doc) Discussion on SLPP open issues Xiaomi discussion Rel-18 NR\_pos\_enh2

[R2-2402792](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402792_SLPP%20error%20messaging.doc) Discussion on error messaging in SLPP Lenovo discussion Rel-18 NR\_pos\_enh2

[R2-2402937](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402937%20Further%20discussion%20on%20anchor%20UE%20selection.docx) Further discussion on anchor UE selection LG Electronics Inc. discussion Rel-18

[R2-2403231](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403231%20Inclusion%20of%20the%20UE%20positioning%20method%20in%20the%20discovery%20message.docx) Inclusion of the Server UE Positioning Method in the Discovery Message CEWiT discussion

[R2-2403424](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403424_Remaining%20issues%20on%20SLPP.docx) Remaining issues on SLPP Samsung discussion Rel-18 NR\_pos\_enh2

R2-2403534 Discussion on SLPP RIL issues Ericsson discussion Rel-18 Late

[R2-2403541](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403541%20SLPP.docx) SLPP RIL Issue Ericsson discussion Rel-18

Not available/Withdrawn

[R2-2402899](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402899-38355-misc.docx) Miscellaneous SLPP corrections Apple discussion Rel-19 NR\_pos\_enh2 Withdrawn

### 7.2.4 LPP corrections

Impact to 37.355. A single CR with miscellaneous corrections is requested from the CR rapporteur; minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

Prioritised RIL ToDo items: Q014, Q019, Q024, Q028 [note H006 and N013 are waiting for input from RAN1]

[R2-2403190](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403190_%28LPP%20Corrections%29.docx) [RILs Q014 Q019, Q024, Q028] LPP Corrections Qualcomm Incorporated discussion

Proposal 1: Regarding Q014 (IntegrityLocationBounds), agree the Text Proposal in section 2.1.2. [Chair’s note: description of subfields in field description table]

Proposal2: Regarding Q019, Q028 (nr-RSTD-BasedOnAggregatedResources, nr-UE-RxTxTimeDiffBasedOnAggregatedResources), agree the Text Proposal in section 2.2.2. [Chair’s note: clarification of which measurements are based on aggregation]

Proposal 3: Regarding Q024 (nr-DL-PRS-RxHoppingRequest), agree the Text Proposal in section 2.3.2. [Chair’s note: indicating for which measurements the hopping request is applicable]

Proposal 4: Regarding nr-DL-PRS-RSCPD-Request/nr-DL-PRS-RSCP-Request, agree the Text Proposal in section 3.1.2. [Chair’s note: new issue on signalling format for RSCPD request]

Proposal 5: Regarding IE description for SpatialDelta in IE GNSS-LOS-NLOS-GridPoints, agree the Text Proposal in section 3.2.2. [Chair’s note: actually a TEI18 issue, on an IE description for SpatialDelta that should be included in a field description instead]

Identified open issues: PRU terminology (P1); BWA capability alignment (P2) if time permits

[R2-2402466](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402466%20Discussion%20on%20the%20remaining%20issues%20for%20R18%20LPP.docx) Discussion on the remaining issues for R18 LPP Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2 Late

Proposal1: Specify PRU in the LPP spec as a feature that a UE supports, not as a new UE type/LPP signaling entity. Adopts the following changes [Chair’s note: changes to describe “supporting PRU” in field description of locationInformationType]

Proposal2: Move the two fields posSRS-BWA-RRC-Connected-r18 and posSRS-BWA-IndependentCA-RRC-Connected-r18 from IE SRS-CapabilityPerBand-r16 to SRS-PosResourcesPerBand-r16. Adopt the TP in Annex A.

Identified open issues: PRS-DRX alignment (P1-P3) if not resolved under open issues document; CPP measurement window (P4) if time permits

[R2-2402648](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402648%20Discussion%20on%20remaining%20corrections%20in%20LPP.docx) Discussion on remaining corrections in LPP ZTE Corporation discussion Rel-18 NR\_pos\_enh2

Proposal 1: In LPP on-demand PRS request message, support UE to request one or more PRS time offset(s) associated with each requested PRS periodicity, to better align the actual paging location.

Proposal 2: In LPP on-demand PRS request message, support UE to request separate PRS periodicities per PFL in order to align with the paging cycle inside-PTW and outside-PTW, respectively.

Proposal 3: Support LMF to include UE’s requested PRS periodicities or PRS time offsets in the NRPPa PRS CONFIGURATION REQUEST message. Send LS to RAN3 to inform the NRPPa impact.

Proposal 4: In NR-DL-PRS-MeasurementTimeWindowsConfig, change need ON to need OR for the IE nr-PeriodicityAndSlotOffsetTimeWindow-r18, and add a slot offset IE dedicated for one-shot window configuration. Take the corresponding TP.

Potential LS to RAN1 on bandwidth aggregation

R2-2402259 Discussion on measurement report for the bandwidth aggregation CATT discussion Rel-18 NR\_pos\_enh2

Proposal 1: The used PRS resource for measurement within each aggregated PRS resource set can be indicated to LMF within the measurement report.

Proposal 2: LS to RAN1 to ask them whether UE also need to indicate the used PRS resource for measurement within each aggregated PRS resource set when reporting the measurement results to LMF.

Other contributions (all with ASN.1 impact)

[R2-2402556](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402556%20Correction%20on%20RSCP%20measurement%20info%20in%20PRU%20DL%20info.docx) Correction on RSCP measurement info in PRU DL info vivo draftCR Rel-18 37.355 18.1.0 F FS\_NR\_pos\_enh2

[R2-2402998](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402998_LPP_Open_Issue.docx) LPP Stage 3 Open Issue - CPP Lenovo discussion Rel-18

[R2-2403191](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403191_%28LPP%20Open%20Issues%29.docx) LPP Open Issues: PRU Operation and DL-PRS–DRX Alignment Qualcomm Incorporated discussion

[R2-2403501](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403501%20NR-PRU-DL-Info.docx) Corrections to NR-PRU-DL-Info IE Nokia discussion Rel-18 37.355 NR\_pos\_enh2-Core

[R2-2403502](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403502%20ReqLocInfo_CPP_BWA.docx) Request for carrier phase measurement or joint measurement and clarification for time window configuration Nokia discussion Rel-18 37.355 NR\_pos\_enh2-Core

[R2-2403540](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403540%20LPP.docx) LPP RIL issue Ericsson discussion Rel-18

### 7.2.5 RRC corrections

Impact to 38.331, except for UE capabilities. A single CR with miscellaneous corrections is requested from the CR rapporteur; minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

RIL list

[R2-2403530](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2403530.zip) RRC Positioning RIL List Ericsson discussion Rel-18 Late

* Revised in R2-2403791

R2-2403791 RRC Positioning RIL List Ericsson discussion Rel-18

SRS activation and release

[R2-2402261](file:///C%3A%5C%5CUsers%5C%5Cmtk16923%5C%5CDocuments%5C%5C3GPP%20Meetings%5C%5C202404%20-%20RAN2_125bis%2C%20Changsha%5C%5CExtracts%5C%5CR2-2402261%20Discussion%20on%20the%20release%20of%20SRS%20configuration.docx%22%20%5Co%20%22C%3AUsersmtk16923Documents3GPP%20Meetings202404%20-%20RAN2_125bis%2C%20ChangshaExtractsR2-2402261%20Discussion%20on%20the%20release%20of%20SRS%20configuration.docx) Discussion on the release of SRS configuration CATT, Samsung, LG Electronics Inc, Xiaomi discussion Rel-18 NR\_pos\_enh2 R2-2400202

[R2-2402260](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402260%20Activation%20of%20SP%20SRS%20When%20Configured%20with%20Validity%20Area.docx) Activation of SP SRS When Configured with Validity Area CATT discussion Rel-18 NR\_pos\_enh2

[R2-2402832](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402832%20Discussion%20on%20remaining%20issues%20for%20the%20SRS%20with%20valdity%20area.doc) Discussion on the remaining issues for the SRS with validity area Xiaomi discussion

[R2-2403416](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403416_%5BS208%5D%5BS209%5D%5BS210%5DRemaining%20issues%20on%20RRC.docx) [S208][S209][S210] Remaining issues on RRC Samsung discussion Rel-18 NR\_pos\_enh2

ToDo RIL issues

[R2-2402468](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402468%20Discussion%20on%20the%20remaining%20issues%20for%20R18%20RRC.docx) Discussion on the remaining issues for R18 RRC Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2 Late

SUI and UAI contents

[R2-2402417](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402417%20%5BI166-I171%5D.docx) [I166-I171] Further considerations on parameters in SUI and UAI Intel Corporation discussion Rel-18 NR\_pos\_enh2-Core

[R2-2402333](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402333%20Discussion%20on%20remaining%20RRC%20issues%20on%20the%20positioning.docx) Discussion on remaining RRC issues on the positioning OPPO discussion NR\_pos\_enh2

[R2-2402557](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402557%20Discussion%20on%20SUI%20content%20for%20Sidelink%20Positioning.docx) Discussion on SUI Content for Sidelink Positioning vivo discussion Rel-18 FS\_NR\_pos\_enh2

[R2-2402649](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402649%20Discussion%20on%20remaining%20corrections%20in%20RRC.docx) Discussion on remaining corrections in RRC ZTE Corporation discussion Rel-18 NR\_pos\_enh2

Other contributions

[R2-2402558](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402558%20RRC%20Correction%20for%20UE%20not%20supporting%20NR%20sidelink%20positioning%20in%20limited%20service%20state.docx) RRC correction for UE not supporting sidelink positioning in limited service state in 5GS vivo draftCR Rel-18 38.331 18.1.0 F FS\_NR\_pos\_enh2

[R2-2403194](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403194_%28LPHAP%29.docx) Remaining issues for pre-configured SRS Qualcomm Incorporated discussion

[R2-2403718](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403718%20%5BX041%5D%20Correction%20on%20SL-PRS-QoS-Info.doc) [X041] Correction on SL-PRS-QoS-Info Beijing Xiaomi Mobile Software discussion Rel-18

### 7.2.6 MAC corrections

Impact to 38.321. A single CR with miscellaneous corrections is requested from the CR rapporteur; minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

Rapporteur CR

[R2-2402467](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402467%20Rapporteur%20MAC%20CR%20for%20R18%20positioning.docx) Rapporteur MAC CR for R18 positioning Huawei, HiSilicon CR Rel-18 38.321 18.1.0 1794 - F NR\_pos\_enh2

Other contributions

[R2-2402650](file:///C%3A%5C%5CUsers%5C%5Cmtk16923%5C%5CDocuments%5C%5C3GPP%20Meetings%5C%5C202404%20-%20RAN2_125bis%2C%20Changsha%5C%5CExtracts%5C%5CR2-2402650%20Discussion%20on%20remaining%20corrections%20in%20MAC.docx%22%20%5Co%20%22C%3AUsersmtk16923Documents3GPP%20Meetings202404%20-%20RAN2_125bis%2C%20ChangshaExtractsR2-2402650%20Discussion%20on%20remaining%20corrections%20in%20MAC.docx) Discussion on remaining corrections in MAC ZTE Corporation discussion Rel-18 NR\_pos\_enh2

[R2-2402262](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402262%20Discussion%20on%20the%20remaining%20issues%20on%20bandwidth%20aggregation%20for%20SRS.docx) Discussion on the remaining issues on bandwidth aggregation for SRS CATT discussion Rel-18 NR\_pos\_enh2

[R2-2402334](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402334%20Discussion%20on%20RAN1%20reply%20LS%20on%20SL-PRS%20transmission.docx) Discussion on RAN1 reply LS on SL-PRS transmission OPPO discussion NR\_pos\_enh2

[R2-2402471](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402471%20Remaining%20issues%20for%20MAC%20spec%20for%20R18%20positioning.docx) Discussion on the remaining issues for MAC for R18 positioning Huawei, HiSilicon discussion Rel-18 NR\_pos\_enh2

[R2-2402577](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402577%20Discussion%20on%20SL-PRS.docx) Discussion on SL-PRS ASUSTeK discussion Rel-18 38.321 NR\_pos\_enh2

[R2-2402706](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402706%20Discussion%20on%20positioning%20MAC%20open%20issues.doc) Discussion on SL positioning MAC open issues Xiaomi discussion Rel-18 NR\_pos\_enh2

[R2-2403201](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403201_%28SRS%20Aggregation%20MAC-CE%29.docx) MAC CE for activation/deactivation of aggregated SP SRS for positioning Qualcomm Incorporated discussion

[R2-2403341](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403341%20%28R18%20NR%20POS%20A726%20SL%20POS%29.docx) Discussion on remaining MAC issues for SL positioning InterDigital, Inc. discussion Rel-18 NR\_pos\_enh2

[R2-2403417](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403417_Remaining%20issues%20on%20MAC.docx) Remaining issues on MAC Samsung discussion Rel-18 NR\_pos\_enh2

[R2-2403531](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403531%20MAC.docx) Addressing MAC open issues Ericsson discussion Rel-18

### 7.2.7 UE capabilities

Impact to 38.306 and capability-related impact to 38.331. A single CR with miscellaneous corrections is requested from the CR rapporteur; minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

R2-2402321 Compatibility between Redcap positioning feature and other R18 positioning features CATT discussion Rel-18 NR\_pos\_enh2

[R2-2402578](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402578%20Correction%20on%20UE%20capability%20regarding%20SL%20PRS.docx) Correction on UE capability regarding SL PRS ASUSTeK discussion Rel-18 38.306 NR\_pos\_enh2

### 7.2.8 Corrections to other specifications

Impact to any specifications not identified above.

## 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: 0TU

Tdoc Limitation: 3 tdocs

### 7.9.1 Organizational

Including incoming LSs and rapporteur inputs. CR rapporteurs are asked to continue maintaining an open issues list reflecting known issues to be handled during the maintenance phase.

### 7.9.2 Stage 2 corrections

Impact to 38.300. A single CR with miscellaneous corrections is requested from the CR rapporteur. Minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

R2-2402209 Discussion on stage-2 corrections OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2402428](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402428.docx) Correction to 38.300 on Relay enhancement Xiaomi discussion

[R2-2402721](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402721%20LTM%20in%20L2%20relay%20case%20v1.0.doc) LTM in L2 relay case Lenovo discussion Rel-18

[R2-2403311](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403311%20Stage-2%20Corrections%20on%20SL%20relay%20enhancements.doc) Stage-2 Corrections for SL relay enhancements Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

### 7.9.3 RRC corrections

Impact to 38.331, except for capability-related issues (see agenda item 7.9.7). A single CR with miscellaneous corrections is requested from the CR rapporteur. Minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues where no clear conclusion was reached in [Post125][417] can be discussed based on contributions.

Including outcome of [Post125][417][Relay] Rel-18 relay RRC open issues (Huawei)

RIL list

ToDo RILs outside the scope of [Post125][417]: B113, B107, Z777, Z778, K008, Z779, N122, B109, C263, H686, O418, Z770

[R2-2403705](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CDocs%5CR2-2403705.zip) RIL list for Rel-18 SL relay enhancement Huawei, HiSilicon report Rel-18 NR\_SL\_relay\_enh-Core

Open issues list

[R2-2402681](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402681%20RRC%20open%20issue%20list%20for%20Rel-18%20SL%20relay.docx) RRC open issue list for Rel-18 SL relay Huawei, HiSilicon report Rel-18 NR\_SL\_relay\_enh-Core

Email discussion report

[R2-2402682](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402682%20Report%20of%20%5BPost125%5D%5B417%5D%5BRelay%5D%20Rel-18%20relay%20RRC%20open%20issues.docx) Report of [Post125][417][Relay] Rel-18 relay RRC open issues Huawei, HiSilicon report Rel-18 NR\_SL\_relay\_enh-Core

Rapporteur CR

R2-2402680 Rapp RRC CR for Rel-18 SL relay enhancement Huawei, HiSilicon CR Rel-18 38.331 18.1.0 4684 - F NR\_SL\_relay\_enh-Core Late

Flow-to-bearer mapping [U2U]

[R2-2402890](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402890%20Discussion%20on%20remaining%20ASN.1%20issue%20for%20L2%20U2U.docx) Discussion on remaining ASN.1 issues for Layer-2 UE-to-UE Relay Apple discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2403552](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403552-U2U-QoS-SLRB.docx) discussion on flow-to-bearer mapping indication Sharp discussion Rel-18 NR\_SL\_relay\_enh-Core

ToDo RIL items with ASN.1 impact: B107, N122

[R2-2402286](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402286%20%5BB107%5D%20Discussion%20on%20IndirectPathFailureInformation%20message%20v2.0.doc) [B107] Discussion on IndirectPathFailureInformation message Lenovo, Apple, China Telecom, Sharp, InterDigital, Kyocera discussion Rel-18 38.331 NR\_SL\_relay\_enh-Core

[R2-2403603](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403603%20%5BN121%5D%5BN122%5D%20RILs%20on%20Sidelink%20relay.docx) [N121][N122] RILs on sidelink relay Nokia discussion NR\_SL\_relay\_enh-Core

Other RILs with possible ASN.1 impact

[R2-2402208](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402208%20-%5BO400-407%2C%20O421%5D%2C%20%5BO425%5D%2C%20%5BO418%2C%20O427%2C%20O428%5D%2C%20%5BO419%5D%2C%20%5BQ581%5D%20Discussion%20on%20ToDo%20RILs%20for%20R18%20Relay.docx) [O400-407, O421], [O425], [O418, O427, O428], [O419], [Q581] Discussion on ToDo RILs for R18 Relay OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2402504](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402504_%5BC262%5DClarification%20on%20Indirect%20Path%20Failure%20for%20MP%20Scenario%201.docx) [C262]Clarification on Indirect Path Failure for MP Scenario 1 CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2402718](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402718%20%5BB109%5D%20on%20sidelink%20RRC%20reconfiguration%20failure%20for%20U2U%20v1.0.doc) [B109] on sidelink RRC reconfiguration failure for U2U Lenovo discussion Rel-18

[R2-2402927](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402927-Discussion%20on%20the%20remaining%20issues%20for%20U2U%20relay.docx) Discussion for the remaining issues for U2U relay LG Electronics Inc. discussion Rel-18

[R2-2403140](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403140-Open%20issues%20on%20RRC%20specification.docx) Remaining issues and corrections on RRC specification Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2403200](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403200%20RSRP%20for%20U2N%20relay%20%28re-%29selection%20TDoc.docx) RSRP thresholds for U2N relay selection and re-selection Nokia discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2403357](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403357.docx) Discovery [O419] Open Issues [Post125][417] and [X033] [X251] PC5 trigger for U2U Relay UE selection Beijing Xiaomi Mobile Software discussion Rel-18 NR\_SL\_relay\_enh-Core

MCG terminology

[R2-2403607](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403607_E105%20E267%20E269%20Issues%20on%20SL%20Relays.docx) RILs on SL Relays Ericsson discussion Rel-18 Late

Covered by email discussion

[R2-2402785](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402785.docx) [H659] Network support for non-3GPP multi-path relay MediaTek Inc., OPPO, ZTE discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2403314](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403314%20%5BH064%5D%5BH686%5D%20Discussion%20for%20RIL%20issues%20on%20U2U%20relay.doc) [H064][H686] Discussion for RIL issues on U2U relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

Other contributions

R2-2402427 [X028] Correction on SIB1 forwarding in multipath Xiaomi discussion

[R2-2402505](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402505_%5BC261%5DHandling%20of%20indirect%20path%20when%20Remote%20UE%20enters%20RRC_IDLE.docx) [C261]Handling of Indirect Path When Remote UE Enters RRC\_IDLE CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2402506](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402506_%5BC263%5DClarification%20on%20U2U%20Remote%20UE%20Threshold%20Conditions.docx) [C263]Clarification on U2U Remote UE Threshold Conditions CATT discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2402600](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402600%20%5BX029%2C030%2C031%5D%20Correction%20on%20the%20relay%20reselection.docx) [X029,030,031] Correction on the relay reselection Xiaomi discussion

[R2-2402717](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402717%20%5BB108%5D%20on%20unsolicited%20SIB1%20forwarding%20in%20MP%20v1.0.doc) [B108] on unsolicited SIB1 forwarding in MP Lenovo discussion Rel-18

[R2-2402719](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402719%20%5BB112%5D%20on%20maintained%20indirect%20path%20during%20direct%20path%20addition%20v1.0.doc) [B112] on maintained indirect path during direct path addition v1.0 Lenovo discussion Rel-18

[R2-2402720](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402720%20%5BB113%5D%20TP%20on%20T390%20in%20MP%20scenario.doc) [B113] TP on T390 in MP scenario Lenovo discussion Rel-18

[R2-2403369](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403369_Discussion_of_Open_Issues_in_38331.docx) Remaining Open Issues in 38.331 Ericsson discussion Rel-18

[R2-2403476](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403476_%5BZ756%5DSRAP%20configuration%20for%20non-RRC%20connected%20L2%20U2U%20UE.doc) [Z756]SRAP configuration for non-RRC connected L2 U2U UEs ZTE, Sanechips discussion NR\_SL\_relay\_enh-Core

[R2-2403477](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403477_Relay%20UE%20traffic%20pattern%20reporting%20in%20UAI.doc) Discussion on relay UE traffic pattern reporting in UAI ZTE, Sanechips discussion NR\_SL\_relay\_enh-Core

[R2-2403719](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403719.docx) [X260] [X262] U2U Relay UE selection Beijing Xiaomi Mobile Software discussion Rel-18 38.331 NR\_SL\_relay\_enh-Core

### 7.9.4 SRAP corrections

Impact to 38.351. A single CR with miscellaneous corrections is requested from the specification rapporteur. Minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

Rapporteur CR

[R2-2402206](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5C38351_CR0034_%28REL-18%29_R2-2402206%20-%20Corrections%20for%20NR%20sidelink%20relay%20enhancements.docx) Corrections for NR sidelink relay enhancements OPPO CR Rel-18 38.351 18.1.0 0034 - F NR\_SL\_relay\_enh-Core

Other contributions

[R2-2403478](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403478%20Discussion%20on%20SRAP%20corrections%20for%20U2U%20relay.docx) Discussion on SRAP corrections for U2U relay ZTE, Sanechips discussion NR\_SL\_relay\_enh-Core

[R2-2402587](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402587%20Clarification%20on%20UE%20ID%20pair%20allocation%20and%20determination.docx) Clarification on UE ID pair allocation and determination ASUSTeK discussion Rel-18 38.331 NR\_SL\_relay\_enh-Core

### 7.9.5 MAC corrections

Impact to 38.321. A single CR with miscellaneous corrections is requested from the CR rapporteur. Minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

### 7.9.6 RLC and PDCP corrections

Impact to 38.322 and 38.323. For each specification, a single CR with miscellaneous corrections is requested from the CR rapporteur. Minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions

Rapporteur CR.

[R2-2402816](file:///C%3A%5C%5CUsers%5C%5Cmtk16923%5C%5CDocuments%5C%5C3GPP%20Meetings%5C%5C202404%20-%20RAN2_125bis%2C%20Changsha%5C%5CExtracts%5C%5C38323_CR0135_Rel-18_R2-2402816_MiscRelayCorrections.docx%22%20%5Co%20%22C%3AUsersmtk16923Documents3GPP%20Meetings202404%20-%20RAN2_125bis%2C%20ChangshaExtracts38323_CR0135_Rel-18_R2-2402816_MiscRelayCorrections.docx) Miscellaneous Rapporteur Corrections to 38.323 for SL Relay InterDigital France R&D, SAS CR Rel-18 38.323 18.1.0 0135 - F NR\_SL\_relay\_enh-Core

Deactivated path case (overlap with rapporteur CR)

[R2-2402207](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402207%20-%20Discussion%20on%20duplicated%20PDU%20submitted%20to%20indirect%20path%20RLC.docx) Discussion on duplicated PDU submitted to indirect path RLC OPPO discussion Rel-18 NR\_SL\_relay\_enh-Core

Data volume calculation

[R2-2403479](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403479_Discussion%20on%20PDCP%20corrections%20for%20MP.doc) Discussion on PDCP corrections for MP ZTE, Sanechips discussion NR\_SL\_relay\_enh-Core

[R2-2403313](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403313%20PDCP%20corrections%20on%20data%20volume%20calculation%20for%20multi-path.docx) PDCP corrections on data volume calculation for multi-path relay Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2403412](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403412%20Clarification%20of%20PDCP%20for%20MP.docx) Clarification on PDCP with multi-path Nokia discussion Rel-18

### 7.9.7 UE capabilities

Impact to 38.306 and capability-related impact to 38.331. A single CR with miscellaneous corrections is requested from the CR rapporteur. Minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

R2-2403139 UE capabilities on MP relay Qualcomm Incorporated discussion NR\_SL\_relay\_enh-Core

[R2-2403370](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403370_Discussion_of_Open_Issues_in_38306.docx) Remaining Open Issues in 38.306 Ericsson discussion Rel-18

[R2-2403312](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403312%20UE%20capability%20corrections%20for%20multi-path%20operation.docx) UE capability corrections for multi-path operation Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

### 7.9.8 Idle mode corrections

Impact to 38.304. A single CR with miscellaneous corrections is requested from the CR rapporteur. Minor and editorial issues should be coordinated with the rapporteur and merged into the miscellaneous CR. Larger issues can be discussed based on contributions.

R2-2403602 Correction on 38.304 for SL Relays Ericsson CR Rel-18 38.304 18.1.0 0400 - F NR\_SL\_relay\_enh

## 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).

R2-2403538 Introduction of LCS User Plane Ericsson, Intel Corporation, Huawei, HiSilicon, ZTE Corporation, vivo CR Rel-18 38.305 18.1.0 0159 1 B TEI18 R2-2401320

### 7.24.2 TEI proposals by RAN2

Items initiated in RAN2 for NR and LTE.

No contributions should be submitted under 7.24.2. They should be submitted under 7.24.x

Tdoc limitation: 1 tdoc, limitation applicable to new proposals. No new Cat. B proposals expected for this meeting

#### 7.24.2.2 Other RAN2 TEI-18

Contributions should focus only critical issues/corrections for already agreed TEI-18 topics. New TEI proposals should address critical issues that should be resolved by RAN2#125. Co-sourcing of such proposals is encouraged. Contributions on items that were explicitly downprioritized from Rel-18 WIs should not be brought as TEI18. No new Cat. B proposals expected for this meeting

Including outcome of [POST125][022][RedCap emergency calls] Review CRs (Apple) and [POST125][612][TEI18] CR for MBS operation with eDRX/MICO (Nokia)

SUI for U2N relay

R2-2402210 Remove of AS condition checking of SUI for U2N Relay communication OPPO, Apple CR Rel-18 38.331 18.1.0 4645 - F TEI18, NR\_SL\_relay\_enh-Core

[R2-2402211](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402211%20-%20Discussion%20on%20AS%20condition%20checking%20for%20SUI%20transmission.docx) Discussion on AS condition checking of SUI for U2N Relay communication OPPO, Apple discussion Rel-18 TEI18, NR\_SL\_relay\_enh-Core

MUSIM paging cause forwarding

[R2-2402372](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402372_Rel_18_Corrections%20for%20MUSIM%20paging%20cause%20forwarding_draft%20CR.docx) Corrections for MUSIM paging cause forwarding Samsung Electronics Co., Ltd discussion Rel-18 TEI18

BT AoA/AoD

[R2-2402418](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2402418%20Corrections%20for%20Bluetooth%20AoAAoD%20%5BBT-AoA-AoD%5D.docx) Corrections for Bluetooth AoA/AoD [BT-AoA-AoD] Intel Corporation discussion Rel-18 TEI18

R2-2403794 [Title TBD] [BT-AoA-AoD] Ericsson CR Rel-18 37.355 18.1.0 xxxx - F4 TEI18

LS out to RTCM

[R2-2403358](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403358_Draft%20Ls%20to%20RTCM.docx) LS to RTCM on GNSS positioning and integrity Swift Navigation, Ericsson discussion

Sub-1s periodicity in LPP

[R2-2403605](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403605%20LPPsubSec.docx) LPP support for sub 1s location information reporting periodicity Ericsson, AT&T, T-Mobile, Vivo, Deutsche Telekom CR Rel-18 37.355 18.1.0 0501 - B TEI18

* Revised in R2-2403793

R2-2403793 LPP support for sub 1s location information reporting periodicity [Sub\_1s\_periodicity] Ericsson, AT&T, T-Mobile, Vivo, Deutsche Telekom, Huawei CR Rel-18 37.355 18.1.0 0501 1 B TEI18

PosL2RemoteUE [ASN.1 issue B021]

R2-2403792 [B021] Missing posSibType2-17a in list of posSIB types [PosL2RemoteUE] MediaTek Inc. CR Rel-18 38.331 18.1.0 4767 - F TEI18 Late

Not available/Withdrawn

R2-2403539 LPP support for sub 1s location information reporting periodicity Ericsson, AT&T, T-Mobile, Vivo, Deutsche Telekom CR Rel-18 38.305 18.1.0 0159 2 B TEI18 R2-2401320 Withdrawn

## 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.

Clarification CRs should be discussed with spec rapporteurs of the topic prior to submission.

Time budget: 2 TU

Tdoc Limitation: -

### 7.25.3 Other

RAN3, SA2, SA3, CT1 led items and others, e.g. eNPN, Slicing, NTN self evaluation issues, etc.

[R2-2403529](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202404%20-%20RAN2_125bis%2C%20Changsha%5CExtracts%5CR2-2403529%20ECID.docx) Introduction of NR UE Rx-Tx time difference measurement in NR UL E-CID [ECID-UERxTx] Ericsson, Polaris Wireless, China Telecom, NTT Docomo, AT&T, FirstNet, Intel, Comtech, Nokia, Nokia Shanghai Bell, Verizon Wireless, Huawei, ZTE CR Rel-18 38.305 18.1.0 0164 - F NR\_pos-Core

* Revised in R2-2403740 [AI 6.4]