3GPP TSG-RAN WG2 Meeting #131bis R2-25xxxxx

Prague, Czech Republic, 13-17 October 2025

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

## 4.3 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).

Tdoc Limitation: 1 tdoc

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 3 Tdocs in total for agenda item 5 (incl. its sub agenda items) and agenda item 6 (incl. its 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 treated 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.

# 6 NR Rel-17

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

Tdoc Limitation: 3 Tdocs in total for agenda item 5 (incl. its sub agenda items) and agenda item 6 (incl. its sub agenda items)

## 6.1 Common

(NR\_MG\_enh-Core; leading WG: RAN4; REL-17; WID: [RP-211591](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211591.zip))

(NR\_UDC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-211203](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211203.zip))

(NG\_RAN\_PRN\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-202363](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_90e/Docs/RP-202363.zip))

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-211548](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211548.zip))

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-212630](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_93e/Docs/RP-212630.zip))

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: [RP-201040](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_88e/Docs/RP-201040.zip))

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: [RP-212610](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_93e/Docs/RP-212610.zip))

(NR\_Slice-Core; leading WG: RAN2; REL-17; WID: [RP-212534](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_93e/Docs/RP-212534.zip))

(NR\_QoE-Core; leading WG: RAN3; REL-17; WID: [RP-211406](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211406.zip))

(NR\_ext\_to\_71GHz-Core; leading WG: RAN1; REL-17; WID: [RP-212637](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_93e/Docs/RP-212637.zip))

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-211566](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211566.zip)): non-RACH-indication parts

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: [RP-211574](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211574.zip))

(NR\_feMIMO-Core; leading WG: RAN1; REL-17; WID: [RP-212535](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_93e/Docs/RP-212535.zip))

(NR\_SmallData\_INACTIVE-Core, leading WG: RAN2; REL-17; WID: [RP-212594](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_93e/Docs/RP-212594.zip))

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-210854](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_91e/Docs/RP-210854.zip))

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: [RP-201038](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_88e/Docs/RP-201038.zip))

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-201281](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_88e/Docs/RP-201281.zip))

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-211557](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211557.zip))

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-202846](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_90e/Docs/RP-202846.zip))

(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))

PRACH partitioning items

(NR TEI17)

Includes Rel-17 Work Items without specific R2 Agenda Item, e.g. RAN1 and RAN4 led items, SA2 and CT1 led items (was previously “Rel-17 Other”)

Includes aspects that does not fit under the more specific AIs, e.g. multi-WI aspects.

Corrections for NR\_NTN\_solutions-Core might be treated in the NTN breakout session.

### 6.1.3 Control Plane corrections

#### 6.1.3.1 NR RRC

Corrections to 38331, and related change to other TS if applicable, except UE caps.

[R2-2507097](file:///C:\\Users\\mtk16923\\Documents\\3GPP%20Meetings\\202510-%20RAN2_131bis,%20Prague\\Extracts\\R2-2507097%20RRC_R17_RLC-channel-config-v1.docx" \o "C:Usersmtk16923Documents3GPP Meetings202510- RAN2_131bis, PragueExtractsR2-2507097 RRC_R17_RLC-channel-config-v1.docx) Correction on PC5 Relay RLC channel configuration Apple, CATT CR Rel-17 38.331 17.14.0 5508 - F NR\_SL\_relay-Core

[R2-2507098](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507098%20RRC_R18_RLC-channel-config-v1.docx) Correction on PC5 Relay RLC channel configuration Apple, CATT CR Rel-18 38.331 18.7.0 5509 - A NR\_SL\_relay-Core

[R2-2507099](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507099%20RRC_R19_RLC-channel-config-v1.docx) Correction on PC5 Relay RLC channel configuration Apple, CATT CR Rel-19 38.331 19.0.0 5510 - A NR\_SL\_relay-Core

## 6.3 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))

# 7 NR Rel-18

## 7.0 Common

Rel-18 WIs not covered under an explicit AI in 7.x. Multi-WI Rel-18 items, e.g. cross-WI-issues not handled under another WI. UE capabilities.

### 7.0.2 Rel-18 corrections

*Essential corrections only. For smaller corrections please contact CR editor / Rapporteur directly. Coordinate with rapporteurs and chair if input above limit is required*

*Tdoc limitation: 4*

#### 7.0.2.19 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))

[R2-2507076](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507076%20Correction%20on%20UE%20capability%20for%20MP%20split.docx) Correction on UE capability for MP split ZTE Corporation, Sanechips, CATT CR Rel-18 38.306 18.7.0 1357 - F NR\_SL\_relay\_enh-Core

[R2-2507077](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507077%20Correction%20on%20UE%20capability%20for%20MP%20split.docx) Correction on UE capability for MP split ZTE Corporation, Sanechips, CATT CR Rel-19 38.306 19.0.0 1358 - A NR\_SL\_relay\_enh-Core

[R2-2507213](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507213%20CR5422r1%20to%2038.331%20on%20SI%20reception%20for%20MP.docx) Correction to SI reception by remote UE for multi path LG Electronics Inc. CR Rel-18 38.331 18.7.0 5422 1 F NR\_SL\_relay\_enh-Core R2-2505543 Revised

* Revised in R2-2507553

[R2-2507553](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507553%20CR5422r3%20to%2038.331%20on%20SI%20reception%20for%20MP.docx) Correction to SI reception by remote UE for multi path LG Electronics CR Rel-18 38.331 18.7.0 5422 3 F NR\_SL\_relay\_enh-Core R2-2507213

[R2-2507214](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507214%20CR5422r2%20to%2038.331%20on%20SI%20reception%20for%20MP.docx) Correction to SI reception by remote UE for multi path LG Electronics CR Rel-19 38.331 19.0.0 5422 2 A NR\_SL\_relay\_enh-Core R2-2505543

* Withdrawn (needs a new CR number)

R2-2507697 Correction to SI reception by remote UE for multi path LG Electronics CR Rel-19 38.331 19.0.0 5563 - A NR\_SL\_relay\_enh-Core

[R2-2507215](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507215%20Correction%20to%20SI%20reception%20by%20remote%20UE%20for%20MP.doc) Correction to SI reception by remote UE for multi path LG Electronics Inc. discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2507474](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507474%20-%2038.300_1045_Rel18_U2URelays_Peer%20Remote%20UE%20Control%20Plane%20Procedures.docx) U2U Relays, Peer Remote UE Control Plane Procedures Ericsson, Nokia CR Rel-18 38.300 18.7.0 1045 - F NR\_SL\_relay\_enh-Core

#### 7.0.2.21 Expanded and improved NR positioning

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

Including outcome of email discussion [Post131][410][POS] Stage 2 descriptions for Rel-18 positioning (CATT)

[R2-2506821](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506821%20Report%20of%20%5bPost131%5d%5b410%5d%5bPOS%5d%20Stage%202%20descriptions%20for%20Rel-18%20positioning%20(CATT).docx) Report of [Post131][410][POS] Stage 2 descriptions for Rel-18 positioning (CATT) CATT discussion Rel-18 NR\_pos\_enh2-Core

[R2-2506824](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506824%20Corrections%20on%20LPHAP,%20carrier%20phase,%20bandwidth%20aggregation%20and%20frequency%20hopping%20for%20positioning.docx) Corrections on LPHAP, carrier phase, bandwidth aggregation and frequency hopping for positioning CATT, Ericsson, Nokia, ZTE Corporation CR Rel-18 38.305 18.6.0 0187 3 F NR\_pos\_enh2-Core R2-2505124

[R2-2506825](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506825%20Corrections%20on%20LPHAP,%20carrier%20phase,%20bandwidth%20aggregation%20and%20frequency%20hopping%20for%20positioning(R19%20Cat.%20A%20CR).docx) Corrections on LPHAP, carrier phase, bandwidth aggregation and frequency hopping for positioning(R19 Cat. A CR) CATT, Ericsson, Nokia, ZTE Corporation CR Rel-19 38.305 18.6.0 0198 - A NR\_pos\_enh2-Core

[R2-2506969](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506969%20Correction%20on%20AdditionalSpectrumEmission%20in%20SL%20positioning.docx) Correction on AdditionalSpectrumEmission in SL positioning ZTE Corporation CR Rel-18 38.331 18.7.0 5494 - F NR\_pos\_enh2-Core

[R2-2506970](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506970%20Correction%20on%20AdditionalSpectrumEmission%20in%20SL%20positioning-r19.docx) Correction on AdditionalSpectrumEmission in SL positioning ZTE Corporation CR Rel-19 38.331 19.0.0 5495 - A NR\_pos\_enh2-Core

[R2-2507040](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507040%20Correction%20for%20the%20description%20of%20rangeAndOrDirection.docx) Correction for the description of rangeAndOrDirection Huawei, HiSilicon CR Rel-18 38.355 18.6.0 0016 - F NR\_pos\_enh2-Core Revised

* Revised in R2-2507355

[R2-2507355](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507355%20Correction%20for%20the%20description%20of%20rangeAndOrDirection.docx) Correction for the description of rangeAndOrDirection Huawei, HiSilicon CR Rel-18 38.355 18.6.0 0016 1 F NR\_pos\_enh2-Core R2-2507040

[R2-2507349](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507349%20Correction%20for%20the%20description%20of%20rangeAndOrDirection.docx) Correction for the description of rangeAndOrDirection Huawei, HiSilicon CR Rel-19 38.355 19.0.0 0017 - A NR\_pos\_enh2-Core

[R2-2507246](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507246%20Correction%20on%20RequestLocationInformation%20IE%20for%20DL-TDOA%20and%20DL-AOD.docx) Correction on RequestLocationInformation for DL-TDOA and DL-AOD Samsung, Qualcomm CR Rel-18 37.355 18.6.0 0562 - F NR\_pos\_enh2-Core

[R2-2507328](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507328%20Correction%20on%20NCD-SSB%20Configuration%20for%20Positioning(R18).docx) Correction on NCD-SSB Configuration for Positioning China Telecom CR Rel-18 38.331 18.7.0 5524 - F NR\_pos\_enh2-Core

[R2-2507330](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507330%20Correction%20on%20NCD-SSB%20Configuration%20for%20Positioning(R19).docx) Correction on NCD-SSB Configuration for Positioning China Telecom CR Rel-19 38.331 19.0.0 5525 - A TEI19, NR\_pos\_enh2-Core

[R2-2507533](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507533%20Correction%20on%20processing%20of%20sidelink%20grant%20on%20Dedicated%20SL-PRS%20resource%20pool.docx) Correction on processing of sidelink grant on Dedicated SL-PRS resource pool ASUSTeK CR Rel-18 38.321 18.7.0 2131 - F NR\_pos\_enh2-Core

Withdrawn/Not available

[R2-2507152](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507152%20Correction%20on%20RequestLocationInformation%20IE%20for%20DL-TDOA%20and%20DL-AOD.docx) Correction on RequestLocationInformation for DL-TDOA and DL-AOD Samsung CR Rel-18 37.355 18.6.0 0561 - F NR\_pos\_enh2-Core Withdrawn

# 8 NR Rel-19

## 8.13 NR sidelink multi-hop relay

(NR\_SL\_relay\_multihop; leading WG: RAN2; REL-19; WID: [RP-250188](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_107/Docs/RP-250188.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 8.13.1 Organizational

LSs and rapporteur input

SRAP open issues and rapporteur CR

[R2-2506805](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506805%20-%20SRAP%20open%20issues%20for%20NR%20sidelink%20multi-hop%20relay_V03_Rapp.docx) SRAP open issues for NR sidelink multi-hop relay OPPO report NR\_SL\_relay\_multihop

[R2-2507150](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507150-Miscellaneous%20SRAP%20corrections%20for%20multi-hop%20U2N%20Relay.docx) Miscellaneous SRAP corrections for multi-hop U2N Relay OPPO, ASUSTeK CR Rel-19 38.351 19.0.0 0042 - F NR\_SL\_relay\_multihop

38.304 open issues

[R2-2507183](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507183.docx) Open issues on Rel-19 multihop relay 38.304 CR MediaTek Inc. discussion Rel-19 NR\_SL\_relay\_multihop-Core

MAC open issues

[R2-2507455](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507455_MAC_OpenIssuesList.doc) MAC Open Issues Discussion InterDigital France R&D, SAS discussion

Capability open issues

[R2-2507559](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507559_%5bPost131%5d%5b417%5d%5bRelay%5d%20Rel-19%20relay%20capability_OpenIssues_summary.docx) Open issues on Rel-19 Relay Capability Samsung discussion Rel-19 NR\_SL\_relay\_multihop-Core

Proposal: The remote UE operation is not a prerequisite of the relay UE operation, and no further specification change is needed.

ASN.1 review and RRC rapporteur CR

K002, W500, and W501 are PropReject but with related documents under AI 8.13.2

E049, E050, and H453 are PropAgree and implemented in the CR but have related documents under AI 8.13.2

[R2-2507488](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507488%20Corrections%20to%20WI%20SLRelay.docx) Corrections to WI SLRelay Huawei, HiSilicon (Rapporteur) CR Rel-19 38.331 19.0.0 5537 - F NR\_SL\_relay\_multihop-Core Late

[R2-2507489](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507489%20SLRelay%20Review%20file%20v022.docx) WI SLRelay ASN.1 Review file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_SL\_relay\_multihop-Core Late

[R2-2507490](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507490%20SLRelay%20Comments%20file%20v022.docx) WI SLRelay ASN.1 Comments file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_SL\_relay\_multihop-Core Late

### 8.13.2 Control plane

Impact to 38.331 (except for capability issues), 38.304

RIL documents (prioritise ToDo RILs)

Note: J011, X500 are ToDo without documents

O503/O505/O508

[R2-2506804](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506804%20-Discussion%20on%20control%20plane%20corrections%20for%20NR%20sidelink%20multi-hop%20relay.docx) Discussion on control plane correction for multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop

Proposal 1 (O505) RAN2 to discuss whether to introduce sl-PagingDelivery-List to enable the Paging delivery of multiple remote UEs within the same UuMessageTransferSidelink message.

Proposal 2 (O508) Add the missing discovery transmission threshold condition as proposed in O508.

Proposal 3 (O503) Add the missing conditions of SUI initiation for discovery transmission at the intermediate relay and last relay as proposed in O503.

B100/B101/B102

[R2-2506925](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506925%20%5bB100%5d%5bB101%5d%5bB102%5d%20issues%20for%20notification%20message%20v1.0.docx) [B100][B101][B102] issues for notification message Lenovo discussion Rel-19

Proposal 1: The case that the intermediate relay UE in idle/inactive can trigger a notification message after receiving release message from its parent has been agreed in RAN2#131 meeting. But it is not captured in RRC specification. RAN2 to agree TP#1 for this case.

Proposal 2: The intermediate relay UE in RRC connected state can be triggered to transmit the notification message towards the child UE after receiving the release message from its parent relay UE. RAN2 to agree TP#2.

Proposal 3: The intermediate relay UE can be triggered to transmit the notification message towards the child UE upon intermediate Relay UE's RRC connection failure including RRC connection reject as specified in 5.3.3.5 and 5.3.13.10, and T300 expiry as specified in 5.3.3.7, and RRC resume failure as specified in 5.3.13.5. RAN2 to agree TP#3.

Z454/Z456/Z455

[R2-2506983](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506983%20Discussion%20on%20RIL%20%5bZ452%5d%5bZ454%5d%5bZ455%5d%5bZ456%5d%5bZ458%5d%5bZ459%5d.doc) Discussion on RIL [Z452][Z454][Z455][Z456][Z458][Z459] ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

Proposal 2. [Z454]MH remote UE will report it’s own SRC L2 ID to network. And adopt the TP in annex clause.

Proposal 3. [Z455]Introduce a paging ID list in SL-TxResourceReqL2U2N-Relay-r17 included in SUI message.

Proposal 4. [Z456]RAN2 is suggested to discuss below two solutions for UE to set UE type in SUI message:

Solution1: Clarify that intermediate relay UE will use different L2 IDs for remote UE discovery function and relay UE discovery function, which may need double check with SA2.

Solution2: It is possible that UE use same L2 ID for remote UE and relay UE discovery, a new UE type is needed.

X501

[R2-2506994](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506994%20Discussion%20on%20Rel-19%20SL%20MH-Relay%20RILs.docx) Discussion on Rel-19 SL MH-Relay RILs Xiaomi discussion Rel-19 NR\_SL\_relay\_multihop

Proposal 1: (X501) To clarify that the understanding of “UE has SIB request information to provide” also includes the requested SIB(s) from the child UE, RAN2 is requested to agree to adopt the TP (first change) proposed in R2-2506994.

A500/O505/X501/H451

[R2-2507103](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507103%20Discussion%20on%20SL%20relay%20ASN.1.docx) ASN.1 issues for SI/Paging forwarding (A500/O505/X501/K002/H451) Apple discussion Rel-19 NR\_SL\_relay\_multihop

[Focus on A500 and related issues]

Proposal 2 Specify RemoteUEInformationSidelink transmission behaviour for RRC\_CONNECTED intermediate relay UE in TS 38.331.

Proposal 3 Single-hop and Multi-hop SI/Paging forwading are to be separately specified in clarity in 5.8.9.8.2 for the transmission of RemoteUEInformationSidelink.

Proposal 4 The triggering of the transmission of RemoteUEInformationSidelink is also described in respective subclauses when SL RLF occurs or when child UE’s request is received.

E044

[R2-2507427](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507427%20-%20Discussion%20on%20RIL%20E044%20and%20E029.docx) Discussion on RIL E044 and RIL E029 Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

Proposal 1 Include the condition in the note 4 that the note is only applicable to multi-hop L2 U2N Relay communication.

Proposal 2 Update the note 4 that the L2 U2N Remote UE may prioritize the selection or reselection of suitable NR sidelink U2N Relay UE based on the RRC state information in the discovery message.

Proposal 3 Adopt the TP for RIL E044 captured in clause 4.

H455/H454/H452

[R2-2507491](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507491%20Discussion%20on%20Multi-hop%20Relay%20RILs%20%5bH452%5d,%5bH454%5d%20and%20%5bH455%5d.docx) Discussion on Multi-hop Relay RILs [H452],[H454] and [H455] Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core Late

[H455] How to restrict inter-gNB direct/single-hop to multi-hop indirect path switching

Proposal 1: Add an indication in the measurement report to indicate whether the candidate Relay UE is on a single-hop or multi-hop target path as indicate in the text proposal in the Annex 1.

[H452] Condition for Discovery message transmission

Proposal 2: The UE should check the hop count condition against the configured hop limit before transmitting a discovery message as indicated in the text proposal in the Annex 2.

[H454] Notification message from Intermediate Relay UE

Proposal 3: The intermediate relay UE in RRC\_IDLE or RRC\_INACTIVE state should send a notification to all its child UE(s) when the hop count of the target path increases, allowing the child UE(s) to determine whether to maintain the PC5 connection with the intermediate relay UE as indicated in the text proposal in the Annex 3

Additional documents related to H455 (note: R2-2507353 contains an additional proposal)

[R2-2506844](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506844%20Intra-gNB%20Service%20Continuity%20for%20Multi-hop%20U2N%20Relay.docx) Intra-gNB Service Continuity for Multi-hop U2N Relay CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2507353](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507353-Remaining%20issue%20on%20U2N%20multi-hop%20U2N%20relay%20control%20plane.docx) Remaining issue on U2N multi-hop U2N relay control plane Qualcomm Incorporated discussion NR\_SL\_relay\_multihop-Core

[R2-2507451](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507451%20(R19%20SLR%20WI_A8.13.2%20ServiceContinuity).doc) Correction on Restricting Service Continuity for Inter-gNB cases InterDigital France R&D, SAS discussion Rel-19

O503/Z454/Z455/Z456/O505/E044/H452/H454

[R2-2507590](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507590-MH-Cplane.docx) [O503] [Z454] [Z455] [Z456] [O505] [K002] [E044] [H452] [H454] discussion on remaining issues related to C-plane procedure for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

[FFS which proposals are needed, pending discussion of previous contributions]

Documents on RILs not marked ToDo

K002 (PropReject but with multiple documents)

[R2-2507541](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507541%20%5bK002%5d%20Required%20SIB%20and%20Paging%20information%20release%20due%20to%20SL%20RLF.docx) [K002] Required SIB and Paging information release due to SL RLF ASUSTeK discussion Rel-19 38.331 NR\_SL\_relay\_multihop

W500/W501 (PropReject)

[R2-2506946](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506946_%5bW500%5d%5bW501%5dDiscussion%20on%20SUI%20report%20for%20multi-hop%20U2N%20relay.docx) [W500][W501]Discussion on SUI for multi-hop U2N Relay NEC Corporation discussion Rel-19 NR\_SL\_relay\_multihop-Core

E049/E050 (PropAgree, both labelled E049 in comments file)

[R2-2507428](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507428%20-%20discussion%20on%20RIL%20E049%20and%20E050.docx) discussion on RIL E049 and RIL E050 Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

H453 (PropAgree; note that R2-2506843 contains an additional proposal)

[R2-2506843](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506843%20Further%20Discussion%20on%20Control%20Plane%20Leftover%20Issues.docx) Further Discussion on Control Plane Leftover Issues CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2506877](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506877%20Remaining%20issues%20for%20CP,%20SL%20Relay.docx) Remaining CP issues for Multi-hop Relay NEC discussion Rel-19 NR\_SL\_relay\_multihop

Other issues

* [AT131bis][401][Relay] Rel-19 relay RRC non-RIL issues (Huawei)

Scope: F2F offline to briefly discuss the RRC proposals not related to RILs, with the goal to prioritise what needs to be treated online and progress towards consensus where possible.

Intended outcome: Report to Wednesday relay session in R2-2507791

Schedule: Monday 2025-10-13 15:30 CET in Brk3

Deadline: Tuesday 2025-10-14 19:00 CET (for report availability)

R2-2507791 (Report from [401]) Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2507257](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507257-Discussion%20on%20discovery%20and%20relay%20reselection%20for%20multi-hop%20U2N%20relay.docx) Discussion on discovery and relay reselection for multi-hop U2N relay LG Electronics Inc. discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2507259](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507259-Discussion%20on%20the%20control%20plane%20procedure%20for%20multi-hop%20U2N%20relay.docx) Discussion on the control plane procedure for multi-hop U2N relay LG Electronics Inc. discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2507452](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507452%20(R19%20SL%20Relay%20WI_AI8132%20Control%20Plane%20correction.doc) Corrections on Notification Message Handling InterDigital France R&D, SAS discussion Rel-19

[R2-2507492](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507492%20Remaining%20issues%20for%20Multi-hop%20Relay.docx) Remaining issues for Multi-hop Relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

### 8.13.3 User plane corrections

Impact to 38.351, 38.321, and 38.323.

SRAP-6

[R2-2506803](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506803%20-%20User%20Plane%20correction%20for%20R19%20Multi-hop%20U2N%20Relay.docx) Discussion on user plane correction for multi-hop U2N Relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop

Proposal 1 (SRAP-6) For the DL and UL SRB1 of remote UE in multi-hop U2N Relay:

- At the link between remote UE and the first relay UE, the default PC5 RLC channel (i.e., SL-RLC1) can be used as in R17 single hop U2N Relay;

- At the link between intermediate relay UEs or the link between intermediate relay and the last relay, or the link between the last relay and the network, the RLC channel is configured by the network via dedicated RRC message.

[R2-2507591](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507591-MH-Uplane.docx) (SRAP-6) discussion on remaining issues related to U-plane procedure for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

Proposal 1. (SRAP-6) Add procedural text in the RRC specification to describe the SRB1 behaviour for Intermediate U2N Relay UE, dedicated signalling can be used to configure RLC channel for SRB1 for both of a remote UE and an intermediate relay UE.

Other issues

[R2-2506984](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506984%20Discussion%20on%20SRAP%20issue.doc) Discussion on SRAP layer issue ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

Proposal 1. Only the first intermediate relay UE needs to remove the SRAP header. Adopt the TP in annex clause.

[R2-2507633](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507633%20SRAP%20error%20handling%20and%20related%20TP.docx) SRAP error handling and related TP Samsung discussion

Proposal. RAN2 to agree the TP in the Appendix of this document, capturing in the SRAP specification the case of unknown/incorrect next-hop ID on the downstream, and the case of the UE ID of the indirect parent being compared to the sl-LocalIdentity corresponding to L2 ID of the ingress link on the upstream.

### 8.13.4 Others

Impact to specs not listed above, including capability aspects of 38.331.

[R2-2507354](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507354-Last%20relay%20UE%20capability.docx) Last relay UE capability Qualcomm Incorporated, vivo, Samsung, Xiaomi, OPPO discussion NR\_SL\_relay\_multihop-Core

Proposal 1 Remote operation is not a prerequisite for the last relay UE, and keep the current specification as it is.

## 8.15 NavIC L1 SPS A-GNSS support

(LCS\_NAVIC\_L1\_SPS\_NR\_LTE-Core; leading WG: RAN2; REL-19; WID [RP-251552](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_108/Docs/RP-251552.zip)

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

## 8.16 BDS B2b in A-GNSS

LCS\_BDS\_B2b\_LTE\_NR; leading WG: RAN2; REL-19; WID [RP-250767](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_107/Docs/RP-250767.zip))

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

## 8.19 TEI19

Time budget: 1 TU

Tdoc Limitation: 1 tdoc for new proposals and 1 tdoc for old proposals for RAN2-led.

1 additional tdoc for primary co-sourcing company on top of the limit is allowed for co-sourced contribution with 4 or more companies.

Companies are encouraged to submit co-sourced contributions, which will have priority for discussion in RAN2#130

### 8.19.1 RAN2-led

[R2-2506876](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506876%20Extension%20of%20SFN-DFN%20mechanism%20for%20SL%20multi-hop%20relay.docx) Extension of SFN-DFN mechanism for SL multi-hop relay NEC, Ericsson discussion Rel-19 TEI19

Proposal 1 Intermediate relay UE forwards the SFN-DFN offset and timing offset(s) if present provided by its parent UE and an additional timing offset to a child UE.

Proposal 2 Intermediate relay UE sets the additional timing offset according to the relation between its DFN timeline and the DFN timeline of its parent.

Proposal 3 The remote UE determines the SFN time line of the serving network based on its DFN time line, the SFN-DFN offset and the additional timing offsets forwarded in the relay chain.

Proposal 4 Adopt the TPs captured in Clause 5

[R2-2506948](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506948%20Discussion%20on%20SFN-DFN%20offset%20in%20multi-hop%20scenario%20v1.1.doc) Discussion on SFN-DFN offset in multi-hop scenario Lenovo discussion Rel-19

Proposal 1: support forwarding the SFN-DFN offset at the L2 U2N Relay UE or at the L2 Last U2N Relay UE in a multi-hop scenario.

Proposal 2: the intermediate relay UE sets sfn-DFN-OffsetSupported to support once the intermediate relay UE obtains the SFN-DFN offset from the connected parent relay UE if the previous setting is absent.

[R2-2506951](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506951%20CR5493%20Introduction%20of%20SFN-DFN%20offset%20in%20Multi-hop%20scenario%20v1.2.docx) Introduction of SFN-DFN offset in Multi-hop scenario [PosMultiplehop] Lenovo CR Rel-19 38.331 19.0.0 5493 - B TEI19

### 8.19.2 Other WG-led

[R2-2506713](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2506713_R1-2506531.docx) Reply LS on non-RedCap UE UL SRS frequency hopping for positioning (R1-2506531; contact: ZTE) RAN1 LS in Rel-19 TEI19 To:RAN3 Cc:RAN2