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

* Not pursued

Discussion:

Ericsson understand it is up to the network to make sure the configurations are internally consistent. Apple confirm that this is the intention, and the proposal is to clarify that the SL dedicated configuration and SRAP configuration should both be taken into account. Ericsson think the UE should be able to understand the relationship; Apple indicate that we do not show the dependency today on the SRAP configuration.

Huawei think the spec is already clear and the add/modify/release part handles it.

Chair wonders if an implementation reading the spec today would do anything wrong. Apple understand that the relay has to set up SRAP configurations blindly for all the remote UEs with all the relay RLC channels, and we have no procedure now that says what to do when the SRAP configuration changes.

ZTE think Apple’s observation is correct, and we could capture the SRAP configuration in the same sentence as the sl-ConfigDedicatedNR.

Nokia understand that nothing is broken, just not optimized. Apple understand that over-configuring the RLC channels would be an incorrect behaviour by the relay. Nokia think it does not break the system and this is for Rel-17, which has been frozen for a long time; Apple think it is not what we intended to design. Huawei agree with Nokia that we should only consider changes to Rel-17 if they are critical.

Chair asks if a relay UE that implements the sensible configuration is in violation today. Ericsson think it depends on the network to have consistent configurations.

OPPO think since we have a common understanding of the correct implementation and there is some lack of clarity in the spec, adding a NOTE could be a compromise way forward. Nokia think we could capture it in the minutes; they have some concern about adding the NOTE to a frozen release.

Apple interpret that a relay UE doing the right thing would be in violation of the spec today, because it applies a configuration different from what the spec tells it to do.

LG have no strong opinion but think Apple’s proposal is reasonable, and we could consider taking a CR from Rel-18.

Huawei think capturing it in the minutes would be enough. ZTE think we could capture it in Rel-19 (which is not frozen), as they see the change as being necessary for aligned UE behaviour.

Nokia think a UE doing the right thing is not in violation. ZTE think it may violate what the network expects, and without guidance we could see two different UE behaviours. Nokia think both implementations are valid. Chair understands that the “extra” RLC channels would never be used because the SRAP configuration cannot direct traffic to them. Apple think a relay UE implementing the spec must set up the extra channels, or else it is going outside what the spec tells it to do.

Apple think a change from Rel-19 would be all right, but we should capture something for the earlier releases at least in the minutes.

LG agree we could put something in the minutes and take the CR from Rel-19 with the magic sentence.

Agreement:

RAN2 confirm that a L2 U2N relay UE initiates a PC5 Relay RLC channel addition towards a L2 U2N Remote UE if the sl-RLC-ChannelID received in sl-ConfigDedicatedNR is indicated for this L2 U2N Remote UE in accordance with sl-SRAP-ConfigRelay, and a PC5 Relay RLC channel with the received sl-RLC-ChannelID was not configured before.

[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

* Not pursued

[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

* Update to category F and add magic sentence
* Agreed in principle with these changes as R2-2507792

## 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

* Agreed in principle

Discussion:

Qualcomm wonder if it is needed considering the capability name. ZTE clarify that the split DRB is separate from PDCP duplication.

[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

* Agreed in principle

[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

* Impact analysis to be added
* Agreed in principle with this change, as R2-2507795

[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](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202510-%20RAN2_131bis,%20Prague\Extracts\R2-2507697%20CR5563%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 5563 - A NR\_SL\_relay\_enh-Core

* Impact analysis to be added
* Agreed in principle with this change, as R2-2507796

[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

* Noted

[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

* Steps 4 through 9 to be replaced with steps 5 through 9
* Agreed in principle with this change, as R2-2507793
* Rel-19 mirror agreed in principle as R2-2507794

Discussion:

Huawei wonder if there are no data from the other side to be transmitted, if the peer procedures would be needed; they understand that if there are data, the peer side will initiate the procedures already, so the spec is OK without the CR.

Samsung think the CR is technically correct, but we have a general assumption in some places that the peer will do the same procedure. Ericsson understand that it matters here because it is U2U and the setup procedure is controlled by the UEs themselves. To Huawei’s comment, Ericsson understand that when we set up the link it should be done in both directions.

Apple do not see that step 4 needs to be performed by both sides. Ericsson think the end-to-end link needs to be set up bidirectionally. Nokia agree with Apple.

#### 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

Discussion:

ZTE wonder why the eDRX extension should not be included, since we have the feature in Rel-18. Qualcomm indicate that we did not agree on this feature in the positioning session and it was only for eRedCap. Ericsson point out that it was mentioned in our WID and we are supporting it; they think it would be enough to provide a reference to 38.300 and say it is supported.

CATT confirm that 38.300 has a sentence about the eDRX extension, and they are fine with referring to it.

Huawei indicate that the extension was for RRC\_INACTIVE in Rel-18, and they wonder if for us it applies in RRC\_IDLE from Rel-17. CATT think we would need separate sentences in the clauses for positioning in idle and inactive respectively.

Qualcomm note that some reference numbers are missing in the added text.

Qualcomm doubt if there is meaningful impact to positioning from this feature. vivo agree with Qualcomm because there is no clear indication of the relationship between DRX and positioning.

Huawei checked 38.305 and found that in RRC\_INACTIVE, there is no mention of the alignment between PRS and DRX; they think it would be more useful to document in stage 2 that this alignment is for power saving, but if we do not want to be this specific, we could just say the features can be supported together. Ericsson think we should not capture too much detail about the purpose of configuring something that is supported in the spec, and a simple pointer would be good enough.

Qualcomm wonder what the UE behaviour would be related to this spec change. Nokia have some sympathy with Qualcomm’s comment and think a simple statement that “this is supported” does not shed much light, so they would prefer to have some linkage to positioning if we have the text at all.

Huawei understand that there should be no impact to UE behaviour.

Ericsson think there is stage 3 text related to the longer SRS periodicity.

Xiaomi wonder if the Rel-19 CR should cover FH. CATT indicate that the Rel-19 CR here is a true shadow without Rel-19-specific content. Qualcomm think there is confusion due to two versions of FH for RedCap and non-RedCap, so they think it should be kept separate if captured in stage 2.

[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

* Agreed in principle

[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

* Agreed in principle

[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

* Agreed in principle

Discussion:

Huawei wonder if this is only for the dedicated pool; if so, it should be made clear. ZTE indicate that for the shared pool, the SL frequency is the same as for data, so the frequency is already included in SIB12 with the additional spectrum emission.

[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

* Agreed in principle

[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

* Not pursued

Discussion:

Chair wonders if it is a mandatory CR. Huawei think so.

Qualcomm think it is not needed because this is the interpretation we always use; they understand that the usage of 0..180 to mean -90..90 is typical. They think for AoA we have a reference to a RAN1 TR in LPP/NRPPa. Huawei think the SA2 description suggests otherwise, and maybe they need to align to our convention.

Ericsson agree with Qualcomm and think there are other places where we use 0..180; they think something could be clarified in SA2.

CATT agree with Qualcomm about the existing LPP convention; they think it is CT4’s responsibility to translate from LPP representation to SA2’s representation.

[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

* Not pursued

[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

* Not pursued (can be done from Rel-19)

Discussion:

Ericsson think it is not critical to fix in Rel-18 but could be done from Rel-19. Huawei agree with Ericsson and think it is a small issue.

Qualcomm think it could be handled in the ASN.1 review.

Samsung think we could agree to capture it in Rel-19.

Agreement:

RAN2 confirm that “location measurements” in the description of RequestLocationInformation for DL positioning in 37.355 should read “location information” and this issue can be fixed from Rel-19.

[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

* Needs to be revised for ASN.1 backward compatibility
* Postponed

Discussion:

ZTE checked RAN1 agreements and did not find an indication that NCD-SSB is supported as a reference.

CATT checked with RAN1 and understand that NCD-SSB can be used, but they are not sure why the offset is required since the UE can still find the NCD-SSB according to the SSB configuration.

China Telecom understand that this is a full configuration, so the offset is needed.

Huawei think we should clarify whether this is for intra- or inter-band; for intra-band they understand there is no need for the offset, and inter-band SSB was introduced for NES and has the offset. They have no strong view on whether to support it, but they think the CR needs to be revised to be ASN.1 BC.

Nokia looked at the RAN1 parameter list and did not find the offset mentioned, so they understand that the need should be confirmed by RAN1.

Ericsson note that we did SRS for positioning in Rel-16 and the time offset was added only in Rel-17, so there would not be anything in the parameter list; they are not sure if anything is broken without the CR, but they think other parts of the RRC configuration include it and it may not be necessary to duplicate it here.

Ericsson note that for SRS for MIMO we do not provide the offset, but the difference here may be that neighbour cells are also involved; they would like more time to check.

CATT agree with Nokia that it should be checked with RAN1 colleagues.

Huawei agree with Ericsson that we should not cause impact to other features; they think it would be good to consult internally with companies’ RAN1 colleagues.

[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

* Postponed

[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

* First change to be replaced with “2> if sl-PRS-MaxNum-Transmissions is configured and the number of transmissions of the SL-PRS has not reached the selected maximum number of SL-PRS transmissions; or 2> if sl-PRS-MaxNum-Transmissions is not configured:”
* Agreed in principle as R2-2507797
* Mirror CR agreed in principle as R2-2507798

Discussion:

Huawei are not sure the third change is correct: There are two SR procedures, one for normal transmission and one for sidelink, and they think we may not need to specify a particular one. ASUSTeK clarify that the current reference just points to a MAC CE, and the parallel requirements in the same paragraph point to the procedures.

Huawei think the first change may be wrong because removing the condition would remove it also for scheme 2.

LG understand that the CR would remove the reference to the parameter completely.

Xiaomi think the first change is not needed because the parameter will not be checked if it is not configured for scheme 1. ASUSTeK think then it should be removed from the section that is common to both schemes.

Ericsson think we should fix the misnamed RRC parameter in Rel-18. Chair thinks there are other cases. Huawei agree that there are other cases and we could let it pass now.

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

* Noted

[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

* Noted

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

* Noted

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

* Noted

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

Agreement:

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

* Noted

[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

* Noted

### 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/X502/X503/X505 (last three are PropReject)

[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.

Proposal 2: (X502) To avoid confusion regarding “paging information” when handling actions related to the transmission of the RemoteUEInformationSidelink message, RAN2 to clarify “paging information” as “paging UE ID/paging cycle” and agree to adopt the TP (second change) proposed in R2-2506994.

Proposal 3: (X503) RAN2 to agree to adopt the TP (third change) proposed in R2-2506994, which revises Figure 5.8.9.8.1-1 to support the transmission of the RemoteUEInformationSidelink message to both the remote UE and the child UE.

Proposal 4: (X505) RAN2 is requested to agree to adopt the TP (fourth change) proposed in R2-2506994, which removes the prefix of the “mh-indicationType” IE.

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 16:30 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