3GPP TSG-RAN WG2 Meeting #129bis [R2-250xxxx](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-250xxxx.zip)

Wuhan, China, Apr. 7th – 11th , 2025

Source: RAN2 Chair (InterDigital)

Title: Agenda

# 1 Opening of the meeting

## 1.1 Call for IPR

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| --- |
| The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs** they become aware of.  The delegates were asked to take note that they were hereby invited:   * to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP. * to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc) |

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG2 Chairman.

## 1.2 Network usage conditions

1/ To avoid email system overload, please don’t attach files and documents to emails e.g. for offline email discussions, but instead use files placed on the meeting server instead. Inbox/Drafts folder is used for meeting offline discussions.

## 1.3 Other

|  |
| --- |
| In accordance with the Working Procedures it is reaffirmed that:  (i) compliance with all applicable antitrust and competition laws is required;  (ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and  (iii) the chair will conduct the meeting with strict impartiality and in the interests of 3GPP |

Note on (i): In case of question please contact your legal counsel.

Note on (ii): WIDs don’t need to be submitted to the RAN2 meeting and will typically not be discussed here either.

# 2 General

## 2.1 Approval of the agenda

[R2-2501701](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2501701.zip) Agenda for RAN2#129bis Chairman agenda

## 2.2 Approval of the report of the previous meeting

[R2-2501702](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501702.zip) RAN2#129 Meeting Report MCC report

## 2.3 Reporting from other meetings

## 2.4 Instructions

CRs

* Use latest CR template version 12.3 for all CRs submitted to RAN2 meeting

Rel-18 and earlier maintenance CRs

* Only essential/critical corrections are expected
* Editorial and clarification corrections should be sent to be reviewed and approved by spec rapporteurs prior to submission.
* Editorials corrections should be collected and submitted by spec rapporteurs.
* NOTE: the tdoc limit applies to all CRs (i.e. WI spec rapporteurs are NO longer expected to submit individual contributions). They can submit a company CR where they also include miscellaneous corrections that have been sent to them.

Rel-18 UE capabilities

- EUTRA UE capabilities corrections are covered by separate CRs

- RAN1/RAN4 NR UE capabilities (new) and corrections are covered in Rel-18 common MegaCRs (38306 and 38331) covering all rel-18 WIs (end outcome).

- UE capabilities in LPP 37355 and SLPP 38355 are covered in the main CRs for the Positioning WI.

During the work on NR UE caps:

- In a Common Rel-18 Agenda Item (AI): RAN1 and RAN4 feature corrections are handled jointly under a common AI, with some explicit exceptions. Running UE cap MegaCRs are maintained for the parts handled in the common AI.

- In WI-specific Rel-18 Agenda Items: RAN2 features/corrections are handled per WI and agreed as individual CRs

Tdoc limitations

Tdoc limitations doesn’t apply to Rapporteur Input, i.e.

- Assigned summary rapporteur input of the summary.

- Email / offline discussions outcomes by discussion rapporteur,

- Limit of 1 WI/SI rapporteurs input for WI planning. The work plan is not expected to be updated/submitted every meeting, unless needed. It can include progress of other WG groups in the same Tdoc (i.e. separate Tdocs on other WG agreements are not required).

- TS rapporteur input for TS maintenance.

- Contact Company of a LSin that triggers RAN2 action may submit one tdoc to facilitate the LS reply. This only applies to one of the contact companies in case there are several (default the first).

Tdoc limitations doesn’t apply to Input created at the meeting, revisions, assigned documents etc.

Tdoc limitations doesn’t apply to shadow / mirror CRs (Cat A), or In-Principle Agreed CRs.

Tdoc limitations applies to all other submitted tdocs (e.g. discussion tdoc and CR tdoc are counted as two).

Postponed CRs still count towards tdoc limit unless 3 or more companies are co-sourcing it.

Tdoc request/submission for RAN2#129bis deadlines:

* Tdoc Submission deadline: Mar. 28th, 1000 UTC

## 2.5 Others

Including new spec handling aspecs and output of [POST129][031][Git] Support email thread (Ericsson) and [POST129][032][ASN.1] ASN.1 review process (Nokia)

[R2-2501703](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501703.zip) RAN2 Handbook MCC discussion

*Improvements to specification handling*

[R2-2501885](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501885.zip) Discussion on Git-based specification handling approach OPPO discussion

[R2-2502174](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502174.zip) On specification file formats and workflows Apple discussion

[R2-2502548](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502548.zip) Further aspects on improvements to specification handling Ericsson discussion

# 3 Incoming liaisons

Note: LSs are moved to the respective agenda items if any.

# 4 EUTRA Rel-17 and earlier

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

## 4.1 EUTRA corrections Rel-17 and earlier

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: [RP-211340](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211340.zip))

(UPIP\_EN-DC\_UE; leading WG: RAN3; REL-17; WID: [RP‑213669](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_94e/Docs/RP-213669.zip))

(LTE TEI17)

Essential corrections to LTE Rel-17 topics not covered by other agenda items.

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: [RP-200293](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200293.zip)); REL-15 and Earlier NB-IoT WIs are in scope but not listed explicitly (long list).

(LTE\_eMTC5-Core; LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: [RP-192875](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_86/Docs/RP-192875.zip);), REL-15 and Earlier eMTC WIs are in scope but not listed explicitly (long list).

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed: June 20; WID: [RP-190921](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_84/Docs/RP-190921.zip));

(LTE\_terr\_bcast-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_high\_speed\_enh2-Core; LTE TEI16 Non-positioning);

(LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; WID: [RP-211601](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_92e/Docs/RP-211601.zip))

REL-16 and Earlier EUTRA WIs are in scope but not listed explicitly (long list), Except Positioning WI, which is addressed by AIs below.

NOTE that LTE corrections related to NR WIs or Joint NR LTE WIs should be submitted to NR AIs below.

NOTE that LTE corrections which are the same as an NR correction should be submitted to the respective NR AI (so the NR CR and LTE CR can be treated together).

This Agenda Item is treated in the Maintenance Breakout session (Corrections for LTE\_NBIOT\_eMTC\_NTN might be treated in the NTN breakout session)

[R2-2502330](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502330.zip) Clarification on A4 A5 ReportOnLeave ZTE Corporation, Sanechips discussion Rel-15 LTE\_Aerial-Core

[R2-2502331](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502331.zip) Introducing UE capability for A4 A5 ReportOnLeave ZTE Corporation, Sanechips CR Rel-15 36.306 15.12.0 1907 - F LTE\_Aerial-Core

[R2-2502332](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502332.zip) Introducing UE capability for A4 A5 ReportOnLeave ZTE Corporation, Sanechips CR Rel-16 36.306 16.13.0 1908 - A LTE\_Aerial-Core

[R2-2502333](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502333.zip) Introducing UE capability for A4 A5 ReportOnLeave ZTE Corporation, Sanechips CR Rel-17 36.306 17.8.0 1909 - A LTE\_Aerial-Core

[R2-2502334](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502334.zip) Introducing UE capability for A4 A5 ReportOnLeave ZTE Corporation, Sanechips CR Rel-18 36.306 18.4.0 1910 - A LTE\_Aerial-Core

[R2-2502528](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502528.zip) Correction on timeUntilReconnection in RLF report ZTE Corporation, Sanechips CR Rel-17 36.331 17.12.0 5108 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2502529](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502529.zip) Correction on timeUntilReconnection in RLF report ZTE Corporation, Sanechips CR Rel-18 36.331 18.5.0 5109 - A NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2502561](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502561.zip) Correction to explicit indication of epoch in SIB31 Nordic Semiconductor ASA discussion Rel-17

[R2-2502836](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502836.zip) Correction on deprioritisationReq delete Google CR Rel-18 36.331 18.5.0 5111 - F LTE-L23, TEI11

## 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: 2 tdocs in total for all sub agenda items

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

## 5.1 Common

Includes the following WIs and input that doesn’t fit elsewhere.

(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\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: [RP-200840](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_88e/Docs/RP-200840.zip))

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; Closed June 20; WID: [RP-192926](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_86/Docs/RP-192926.zip)).

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; Completed: Jun 20; WID: [RP-200797](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_88e/Docs/RP-200797.zip))

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; Completed Jun 20; WID: [RP-200494](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200494.zip)).

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; Completed: June 20; WID: [RP-200085](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200085.zip)).

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: [RP-190713](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_83/Docs/RP-190713.zip))

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: [RP-191088](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_84/Docs/RP-191088.zip))

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: [RP-200122](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200122.zip))

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: [RP-200474)](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200474.zip)

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: [RP-191997](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_85/Docs/RP-191997.zip))

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: [RP-191584](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_84/Docs/RP-191584.zip))

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Target Aug 20; WI [RP-200791](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_88e/Docs/RP-200791.zip))

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: [RP-192277](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_85/Docs/RP-192277.zip)).

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; Completed June 20; WID: [RP-191776](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_85/Docs/RP-191776.zip))

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; completed; Aug 20; WID: [RP-200129](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200129.zip))

(NR\_HST, NR\_RRM\_enh-Core, NR\_RF\_FR1, NR\_RF\_FR2\_req\_enh, NR\_n66\_BW, LTE\_NR\_B41\_Bn41\_PC29dBm-Core, NR\_CSIRS\_L3meas,)

(NR TEI16)

LTE mob enh corrections that are common with NR mobility enhancements should be submitted to this AI.

### 5.1.1 Stage 2 and Organisational

Incoming LSs, etc. You should discuss your stage 2 CRs with the specification rapporteurs before submission. Includes impact to 38.300, 36.300, 37.340

[R2-2502473](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502473.zip) Corrections on DCP Huawei, HiSilicon, Nokia (Rapporteur) CR Rel-16 38.300 16.19.0 0983 - F NR\_UE\_pow\_sav-Core

[R2-2502474](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502474.zip) Corrections on DCP Huawei, HiSilicon, Nokia (Rapporteur) CR Rel-17 38.300 17.12.0 0984 - A NR\_UE\_pow\_sav-Core

[R2-2502475](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502475.zip) Corrections on DCP Huawei, HiSilicon, Nokia (Rapporteur) CR Rel-18 38.300 18.5.0 0985 - A NR\_UE\_pow\_sav-Core

### 5.1.2 User Plane corrections

User Plane corrections will be handled in the User Plane break out session

#### 5.1.2.1 MAC

[R2-2502992](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502992.zip) Clarification on the power ramping offset for 2-step RACH switching to 4-step RACH OPPO CR Rel-16 38.321 16.19.0 2072 - F NR\_2step\_RACH-Core

[R2-2502993](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502993.zip) Clarification on the power ramping offset for 2-step RACH switching to 4-step RACH OPPO CR Rel-17 38.321 17.12.0 2073 - A NR\_2step\_RACH-Core

[R2-2502994](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502994.zip) Clarification on the power ramping offset for 2-step RACH switching to 4-step RACH OPPO CR Rel-18 38.321 18.5.0 2074 - A NR\_2step\_RACH-Core

#### 5.1.2.2 RLC PDCP SDAP BAP

### 5.1.3 Control Plane corrections

#### 5.1.3.1 NR RRC

Corrections to 38331, and related change to other TS if applicable, e.g. 36331, Stage-2 etc.

[R2-2501906](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501906.zip) Correction on Initiation of NR SCG failure information CATT CR Rel-16 36.331 16.19.0 5102 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2501907](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501907.zip) Correction on Initiation of NR SCG failure information CATT CR Rel-17 36.331 17.12.0 5103 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2501908](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501908.zip) Correction on Initiation of NR SCG failure information CATT CR Rel-18 36.331 18.5.0 5104 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2502271](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502271.zip) Correction to nrofCandidates-CI for DCI format 2\_4 Huawei, HiSilicon CR Rel-16 38.331 16.19.0 5295 - F NR\_L1enh\_URLLC-Core

[R2-2502272](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502272.zip) Correction to nrofCandidates-CI for DCI format 2\_4 Huawei, HiSilicon CR Rel-17 38.331 17.12.0 5296 - A NR\_L1enh\_URLLC-Core

[R2-2502273](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502273.zip) Correction to nrofCandidates-CI for DCI format 2\_4 Huawei, HiSilicon CR Rel-18 38.331 18.5.1 5297 - A NR\_L1enh\_URLLC-Core

[R2-2502344](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502344.zip) Correction on number of NZP CSI-RS resources Ericsson CR Rel-15 38.331 15.28.0 5298 - F NR\_newRAT-Core

[R2-2502389](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502389.zip) Correction on number of NZP CSI-RS resources Ericsson CR Rel-16 38.331 16.19.0 5299 - A NR\_newRAT-Core

[R2-2502390](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502390.zip) Correction on number of NZP CSI-RS resources Ericsson CR Rel-17 38.331 17.12.0 5300 - A NR\_newRAT-Core

[R2-2502391](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502391.zip) Correction on number of NZP CSI-RS resources Ericsson CR Rel-18 38.331 18.5.1 5301 - A NR\_newRAT-Core

[R2-2502884](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502884.zip) Issues on PUCCH Spatial Relation Info Configuration ZTE, Samsung discussion Rel-16

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

[R2-2502505](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502505.zip) Type clarification for interBandMRDC-WithOverlapDL-Bands-r16 Apple, Huawei, HiSilicon, xiaomi CR Rel-16 38.306 16.20.0 1251 - F NR\_newRAT-Core, TEI16

[R2-2502506](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502506.zip) Type clarification for interBandMRDC-WithOverlapDL-Bands-r16 Apple, Huawei, HiSilicon, xiaomi CR Rel-17 38.306 17.12.0 1252 - A NR\_newRAT-Core, TEI16

[R2-2502507](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502507.zip) Type clarification for interBandMRDC-WithOverlapDL-Bands-r16 Apple, Huawei, HiSilicon, xiaomi CR Rel-18 38.306 18.5.0 1253 - A NR\_newRAT-Core, TEI16

[R2-2502631](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502631.zip) Correction to pdsch-256QAM-FR1 for IAB-MT Nokia CR Rel-16 38.306 16.20.0 1259 - F NR\_IAB-Core

[R2-2502632](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502632.zip) Correction to pdsch-256QAM-FR1 for IAB-MT Nokia CR Rel-17 38.306 17.12.0 1260 - A NR\_IAB-Core

[R2-2502633](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502633.zip) Correction to pdsch-256QAM-FR1 for IAB-MT Nokia CR Rel-18 38.306 18.5.0 1261 - A NR\_IAB-Core

[R2-2502865](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502865.zip) Consideration on Introduction of SRS Capability Reporting for SRS-only cell ZTE Corporation discussion Rel-15 NR\_newRAT-Core

[R2-2502891](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502891.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-15 38.331 15.28.0 5324 - F NR\_newRAT-Core

[R2-2502892](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502892.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-16 38.331 16.19.0 5325 - A NR\_newRAT-Core

[R2-2502893](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502893.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-17 38.331 17.12.0 5326 - A NR\_newRAT-Core

[R2-2502894](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502894.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-18 38.331 18.5.1 5327 - A NR\_newRAT-Core

[R2-2502895](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502895.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-15 38.306 15.27.0 1268 - F NR\_newRAT-Core

[R2-2502896](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502896.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-16 38.306 16.20.0 1269 - A NR\_newRAT-Core

[R2-2502897](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502897.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-17 38.306 17.12.0 1270 - A NR\_newRAT-Core

[R2-2502898](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502898.zip) Correction on SRS capability reporting Huawei, HiSilicon, Ericsson, OPPO CR Rel-18 38.306 18.5.0 1271 - A NR\_newRAT-Core

#### 5.1.3.3 Other

This agenda item addresses the idle and inactive behaviour specified in 38.304 or 36.304, LTE-specific changes for the applicable WIs, Other parts not covered elsewhere.

[R2-2502011](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502011.zip) Clarification on usage of q-RxLevMinSUL Qualcomm Incorporated (Rapporteur) CR Rel-15 38.304 15.8.0 0429 - F NR\_newRAT-Core

[R2-2502012](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502012.zip) Clarification on usage of q-RxLevMinSUL Qualcomm Incorporated (Rapporteur) CR Rel-16 38.304 16.11.0 0430 - A NR\_newRAT-Core

[R2-2502013](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502013.zip) Clarification on usage of q-RxLevMinSUL Qualcomm Incorporated (Rapporteur) CR Rel-17 38.304 17.10.0 0431 - A NR\_newRAT-Core

[R2-2502015](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502015.zip) Clarification on usage of q-RxLevMinSUL Qualcomm Incorporated (Rapporteur) CR Rel-18 38.304 18.4.0 0432 - A NR\_newRAT-Core

[R2-2502404](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502404.zip) Correction to Immediate MDT measurements Nokia CR Rel-16 37.320 16.8.0 0137 - F NR\_SON\_MDT-Core

[R2-2502405](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502405.zip) Correction to Immediate MDT measurements Nokia CR Rel-17 37.320 17.5.0 0138 - A NR\_SON\_MDT-Core

[R2-2502406](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502406.zip) Correction to Immediate MDT measurements Nokia CR Rel-18 37.320 18.3.0 0139 - A NR\_SON\_MDT-Core

## 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.

[R2-2502922](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502922.zip) Correction for equalIntegerAmbiguity Request from UE Ericsson CR Rel-16 37.355 16.14.0 0550 - F NR\_pos-Core

[R2-2502923](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502923.zip) Correction for equalIntegerAmbiguity Request from UE Ericsson CR Rel-17 37.355 17.9.0 0551 - A NR\_pos-Core

[R2-2502924](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502924.zip) Correction for equalIntegerAmbiguity Request from UE Ericsson CR Rel-18 37.355 18.4.0 0552 - 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. Editorials should only be submitted by spec rapporteurs.

Tdoc limitation: 4 Tdocs

## 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.

### 6.1.1 Stage 2 and Organisational

Incoming LSs, etc. You should discuss your stage 2 CRs with the specification rapporteurs before submission. Includes impact to 38.300, 37.340, (36.300 if applicable)

[R2-2501704](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501704.zip) LS on stage 1 requirements for the support for PWS over satellite NGRAN in Rel-17 (C1-250715; contact: Qualcomm) CT1 LS in Rel-17 5GSAT To:SA1 Cc:SA2, CT4, RAN2, RAN3

[R2-2501716](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501716.zip) LS on Slot aggregation configuration with multi-PUSCH (R1-2501593; contact: Nokia) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN2

[R2-2501752](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501752.zip) Reply LS on emergency call back and paging (S2-2502427; contact: ZTE) SA2 LS in Rel-17 NR\_newRAT-Core, NR\_redcap-Core To:RAN2 Cc:CT1, RAN3

[R2-2502441](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502441.zip) Correction on cell type specific cell reselection prioritisation [NR\_HSDN] Huawei, HiSilicon, Nokia, Qualcomm, CMCC, Xiaomi, CATT, Apple CR Rel-17 38.300 17.12.0 0981 - F TEI17, NR\_mobile\_IAB-Core

[R2-2502442](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502442.zip) Correction on cell type specific cell reselection prioritisation [NR\_HSDN] Huawei, HiSilicon, Nokia, Qualcomm, CMCC, Xiaomi, CATT, Apple CR Rel-18 38.300 18.5.0 0982 - A TEI17, NR\_mobile\_IAB-Core

### 6.1.2 User Plane corrections

User Plane Related aspects will be handled in the User Plane break out session. (exception: TEI new proposals if any).

[R2-2502305](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502305.zip) Correction to MAC on IUC Ericsson, Apple, ZTE Corporation, Sanechips CR Rel-17 38.321 17.12.0 2061 - F NR\_SL\_enh-Core

[R2-2502306](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502306.zip) Correction to MAC on IUC Ericsson, Apple, ZTE Corporation, Sanechips CR Rel-18 38.321 18.5.0 2062 - A NR\_SL\_enh-Core

[R2-2502614](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502614.zip) Correction on IAB related MAC CEs ZTE Corporation, Samsung, Sanechips CR Rel-17 38.321 17.12.0 2066 - F NR\_IAB\_enh-Core

[R2-2502615](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502615.zip) Correction on IAB related MAC CEs ZTE Corporation, Samsung, Sanechips CR Rel-18 38.321 18.5.0 2067 - A NR\_IAB\_enh-Core

**To be treated in NTN breakout session**

[R2-2502654](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502654.zip) Corrections on Power saving features in NTN Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

### 6.1.3 Control Plane corrections

[R2-2502920](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502920.zip) Slot aggregation configuration with multi-PUSCH Nokia CR Rel-17 38.331 17.12.0 5328 - F NR\_ext\_to\_71GHz-Core

[R2-2502921](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502921.zip) Slot aggregation configuration with multi-PUSCH Nokia CR Rel-18 38.331 18.5.1 5329 - A NR\_ext\_to\_71GHz-Core

#### 6.1.3.1 NR RRC

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

[R2-2502049](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502049.zip) CR on the usage of msg3-transmitPrecoder CATT, Huawei, HiSilicon CR Rel-17 38.331 17.12.0 5286 - F NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

[R2-2502050](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502050.zip) CR on the usage of msg3-transmitPrecoder CATT, Huawei, HiSilicon CR Rel-18 38.331 18.5.1 5287 - A NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

[R2-2502051](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502051.zip) CR on the usage of RACH parameters in the case of fallbackRAR CATT, Huawei, HiSilicon CR Rel-17 38.321 17.12.0 2055 - F NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

[R2-2502052](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502052.zip) CR on the usage of RACH parameters in the case of fallbackRAR CATT, Huawei, HiSilicon CR Rel-18 38.321 18.5.0 2056 - A NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

[R2-2502140](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502140.zip) Discussion on UE Radio Capability for Paging Information CATT discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core, NR\_redcap-Core, NR\_NTN\_enh-Core, NR\_redcap\_enh-Core, NR\_XR\_enh-Core

[R2-2502249](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502249.zip) Correction on carrier frequency information in RRCConnectionRelease. CATT, Qualcomm Incorporated CR Rel-17 36.331 17.12.0 5106 - F NR\_NTN\_solutions-Core

[R2-2502250](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502250.zip) Correction on carrier frequency information in RRCConnectionRelease. CATT, Qualcomm Incorporated CR Rel-18 36.331 18.5.0 5107 - A NR\_NTN\_solutions-Core

[R2-2502335](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502335.zip) Correction on SCS and CP configuration in RedCap-specific initial BWP ZTE Corporation, Sanechips, Vivo, Ericsson, MediaTek Inc, Qualcomm Incorporated, OPPO, Samsung CR Rel-17 38.331 17.12.0 5212 1 F NR\_redcap-Core [R2-2500439](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500439.zip)

[R2-2502336](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502336.zip) Correction on SCS and CP configuration in RedCap-specific initial BWP ZTE Corporation, Sanechips, Vivo, Ericsson, MediaTek Inc, Qualcomm Incorporated, OPPO, Samsung CR Rel-18 38.331 18.5.1 5213 1 A NR\_redcap-Core [R2-2500440](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500440.zip)

[R2-2502415](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502415.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE ZTE Corporation, Samsung CR Rel-17 38.321 17.12.0 2063 - F NR\_FeMIMO-Core

[R2-2502416](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502416.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE ZTE Corporation, Samsung CR Rel-18 38.321 18.5.0 2064 - A NR\_FeMIMO-Core

[R2-2502472](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502472.zip) Discussion on the issue of UE radio paging capability loss Huawei, HiSilicon discussion Rel-17 NR\_newRAT-Core

[R2-2502519](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502519.zip) Corrections to location-based measurement ZTE Corporation, Ericsson, CATT, Sanechips CR Rel-17 38.331 17.12.0 5303 - F NR\_NTN\_solutions-Core

[R2-2502573](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502573.zip) Miscellaneous non-controversial corrections Set XXV Ericsson CR Rel-17 38.331 17.12.0 5309 - F NR\_newRAT-Core, TEI17

[R2-2502754](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502754.zip) Correction on rsrp-ThresholdSSB-r17 in TS 38.331(R17) Huawei, HiSilicon CR Rel-17 38.331 17.12.0 5316 - F NR\_redcap-Core, NR\_cov\_enh-Core, NR\_slice-Core, NR\_SmallData\_INACTIVE-Core

[R2-2502755](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502755.zip) Correction on rsrp-ThresholdSSB-r17 in TS 38.331(R18) Huawei, HiSilicon CR Rel-18 38.331 18.5.1 5317 - A NR\_redcap-Core, NR\_cov\_enh-Core, NR\_slice-Core, NR\_SmallData\_INACTIVE-Core

[R2-2502940](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502940.zip) Correction on CFRA for SCG activation Huawei, HiSilicon CR Rel-17 38.321 17.12.0 2070 - F LTE\_NR\_DC\_enh2-Core

[R2-2502941](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502941.zip) Correction on CFRA for SCG activation Huawei, HiSilicon CR Rel-18 38.321 18.5.0 2071 - A LTE\_NR\_DC\_enh2-Core

[R2-2501953](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501953.zip) Discussion on UE capabilities to be included in UE Radio Paging Information ZTE Corporation, Sanechips discussion Rel-19

[R2-2502172](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502172.zip) Discussion on capability mis-match issue for LP-WUS, PEI, (e)RedCap, 2Rx XR, NTN, inactiveStatePO-Determination vivo discussion Rel-19 NR\_LPWUS-Core, NR\_UE\_pow\_sav\_enh-Core, NR\_redcap-Core, NR\_redcap\_enh-Core

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

[R2-2501884](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501884.zip) Discussion on Paging Capability Issue OPPO discussion Rel-17 NR\_newRAT-Core, TEI17

[R2-2502520](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502520.zip) Corrections to location-based measurement initiation ZTE Corporation, Ericsson, CATT, Sanechips CR Rel-17 38.306 17.12.0 1255 - F NR\_NTN\_solutions-Core

[R2-2502521](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502521.zip) Corrections to location-based measurement initiation ZTE Corporation, Ericsson, CATT, Sanechips CR Rel-18 38.306 18.5.0 1256 - A NR\_NTN\_solutions-Core

[R2-2502837](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502837.zip) Correction to ul-GapF[R2-r17](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-r17.zip) Huawei, HiSilicon, Apple, Nokia, Nokia Shanghai Bell, Ericsson, MediaTek Inc. CR Rel-17 38.306 17.12.0 1265 - F NR\_RF\_FR2\_req\_enh2

[R2-2502838](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502838.zip) Correction to ul-GapF[R2-r17](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-r17.zip) Huawei, HiSilicon, Apple, Nokia, Nokia Shanghai Bell, Ericsson, MediaTek Inc. CR Rel-18 38.306 18.5.0 1266 - A NR\_RF\_FR2\_req\_enh2

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

[R2-2501975](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501975.zip) On emergency services and eDRX MediaTek Inc. discussion Rel-17

[R2-2502337](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502337.zip) On eDRX operation with emergency PDU session ZTE Corporation, Sanechips discussion Rel-17 NR\_newRAT-Core, NR\_redcap-Core

[R2-2502338](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502338.zip) Correction on eDRX configuration in RRC\_INACTIVE ZTE Corporation, Sanechips CR Rel-17 38.300 17.12.0 0979 - F NR\_newRAT-Core, NR\_redcap-Core

[R2-2502339](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502339.zip) Correction on eDRX configuration in RRC\_INACTIVE ZTE Corporation, Sanechips CR Rel-18 38.300 18.5.0 0980 - A NR\_newRAT-Core, NR\_redcap-Core

[R2-2502504](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502504.zip) Discussion on emergency services and eDRX Nokia, Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core

[R2-2502909](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502909.zip) Emergency callback and paging Ericsson discussion

[R2-2502955](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502955.zip) (e)DRX usage clarification for UEs with emergency PDU Sessions Nokia, Huawei, HiSilicon CR Rel-17 38.804 14.0.0 0001 - F NR\_redcap-Core

=> Withdrawn

[R2-2502956](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502956.zip) (e)DRX usage clarification for UEs with emergency PDU Sessions Nokia, Huawei, HiSilicon CR Rel-18 38.804 14.0.0 0002 - A NR\_redcap-Core

=> Withdrawn

[R2-2502962](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502962.zip) (e)DRX usage clarification for UEs with emergency PDU Sessions Nokia, Huawei, HiSilicon CR Rel-17 38.304 17.10.0 0433 - F NR\_redcap-Core

[R2-2502963](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502963.zip) (e)DRX usage clarification for UEs with emergency PDU Sessions Nokia, Huawei, HiSilicon CR Rel-18 38.304 18.4.0 0434 - A NR\_redcap-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 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.

### 7.0.1 UE Capabilities

Multi-WI handling of Rel-18 feature lists and UE capability Mega CRs.

[R2-2501706](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501706.zip) LS on Rel-18 RAN1 UE features list for NR after RAN1#120 (R1-2501390; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL, NR\_pos\_enh2, Netw\_Energy\_NR, NR\_netcon\_repeater, NR\_NTN\_enh, NR\_Mob\_enh2, NR\_SL\_enh2, NR\_redcap\_enh, NR\_MC\_enh, NR\_XR\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_DSS\_enh, NR\_BWP\_wor, NR\_cov\_enh2, TEI18 To:RAN2 Cc:RAN4

### 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: 6*

[R2-2502574](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502574.zip) Miscellaneous non-controversial corrections Set XXV Ericsson CR Rel-18 38.331 18.5.1 5310 - F NR\_newRAT-Core, TEI18

#### 7.0.2.1 RACH-less HO

*Corrections to generalized RACH-less HO procedure, including NTN, mIAB, and overlapping sections of the LTM cell switch procedure*

[R2-2501772](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501772.zip) Discussion on RACH-less HO Use Case Capturing in Stage-2 vivo, CATT, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core, TEI18, NR\_mobile\_IAB-Core

[R2-2502532](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502532.zip) Support of inter-gNB scenarios for RACH-less handover Ericsson discussion Rel-18 TEI18

[R2-2502605](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502605.zip) Correction on RACH-less HO in NR-NTN vivo, Ericsson, Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips, THALES, Aalyria, Samsung CR Rel-18 38.300 18.5.0 0904 2 F TEI18, NR\_NTN\_enh-Core [R2-2410642](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2410642.zip)

[R2-2502090](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502090.zip) Rapporteur CR for RACH-less HO and LTM [RACH-lessHO] Huawei, HiSilicon, CATT, Nokia, Qualcomm, Samsung CR Rel-18 38.321 18.5.0 2059 - F TEI18, NR\_Mob\_enh2-Core, NR\_NTN\_enh-Core, NR\_mobile\_IAB-Core

#### 7.0.2.2 NR network-controlled repeaters

(NR\_NetConRepeater; leading WG: RAN1; REL-18; WID: [RP-230175](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230175.zip))

#### 7.0.2.3 NR support for UAV

(NR\_UAV-Core; leading WG: RAN2; REL-18; WID: [RP-230782](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_99/Docs/RP-230782.zip) and LTE WID: [RP-230783](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_99/Docs/RP-230783.zip) )

#### 7.0.2.4 Mobile Terminated Small Data Transmission

(NR\_MT\_SDT-Core; leading WG: RAN2; REL-18; WID: [RP-222993](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-222993.zip))

#### 7.0.2.5 IDC enhancements for NR and MR-DC

(NR\_IDC\_enh-Core; leading WG: RAN2; REL-18; WID: [RP-221281](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221281.zip))

#### 7.0.2.6 Mobile IAB (Integrated Access and Backhaul) for NR

( NR\_mobile\_IAB -Core; leading WG: RAN3; REL-18; WID: [RP-232669](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232669.zip))

#### 7.0.2.7 Timing Resiliency and URLLC Enh

(NR\_TRS\_URLLC; leading WG: RAN3; REL-18; WID: [RP-230754](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230754.zip))

#### 7.0.2.8 Enhanced support of reduced capability NR devices

(NR\_redcap\_enh-Core; leading WG: RAN1; REL-18; WID: [RP-232671](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232671.zip))

#### 7.0.2.9 Further NR coverage enhancements

(NR\_cov\_enh2-Core; leading WG: RAN1; REL-18; WID: [RP-221858](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221858.zip))

#### 7.0.2.10 Network energy savings for NR

(Netw\_Energy\_NR-Core; leading WG: RAN1; REL-18; WID: [RP-223540](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223540.zip))

[R2-2501985](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501985.zip) Correction for cell barring for NES CellDTX-DRX UEs Huawei, HiSilicon CR Rel-18 38.331 18.5.1 5284 - F Netw\_Energy\_NR-Core

[R2-2502417](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502417.zip) Correction on Semi-Persistent CSI Report SubConfiguration Activation/Deactivation MAC CE ZTE, Apple, Qualcomm Incorporated CR Rel-18 38.321 18.5.0 2065 - F Netw\_Energy\_NR-Core

*SSB-less*

[R2-2502843](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502843.zip) Discussion on servingCellMO for SSB-less Scell Huawei, HiSilicon, Apple, Qualcomm Incorporated, MediaTek Inc. discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2501952](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501952.zip) Consideration on servingCellMO for SSB-less Scell ZTE Corporation, Sanechips discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2502919](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502919.zip) SSBLess handling Nokia discussion Rel-18 Netw\_Energy\_NR-Core

#### 7.0.2.11 Further enhancement of data collection for SON MDT in NR and EN-DC

(NR\_ENDC\_SON\_MDT\_enh2-Core; leading WG: RAN3; REL-18; WID: [RP-221825](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221825.zip))

[R2-2501909](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501909.zip) Corrections on SPR configuration CATT CR Rel-18 38.331 18.5.1 5283 - F NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2502407](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502407.zip) Updating references to TS 28.558 from TS 28.552 Nokia CR Rel-18 37.320 18.3.0 0140 - F NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2502530](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502530.zip) Correction on timeSinceSHR in SHR report ZTE Corporation, Sanechips CR Rel-18 38.331 18.5.1 5304 - F NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2502645](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502645.zip) Correction on ra-InformationCommon logging in RLF-Report SHR and SPR Ericsson CR Rel-18 38.331 18.5.1 5312 - F NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2502798](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502798.zip) Correction on SON for NPN in TS 38.300 Huawei, HiSilicon, CATT, Samsung, ZTE, CMCC CR Rel-18 38.300 18.5.0 0986 - F NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2502844](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502844.zip) Correction on logging intendedSIBs Samsung CR Rel-18 38.331 18.5.1 5322 - F NR\_ENDC\_SON\_MDT\_enh2-Core

#### 7.0.2.12 Dual Transmission/Reception (Tx/Rx) Multi-SIM for NR

(NR\_DualTxRx\_MUSIM-Core; leading WG: RAN2; REL-18; WID: [RP-233071](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231461.zip))

[R2-2502868](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502868.zip) Clarification on the MUSIM Gap and Measurement Gap Collision ZTE Corporation discussion Rel-18 NR\_DualTxRx\_MUSIM-Core

#### 7.0.2.13 NR MIMO evolution

(NR\_MIMO\_evo\_DL\_UL-Core; leading WG: RAN1; REL-18; WID: [RP-233028](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223276.zip))

[R2-2501712](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501712.zip) LS on RRC parameter for PRACH transmission in 2TA (R1-2501540; contact: CATT) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL-Core To:RAN2

[R2-2501719](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501719.zip) Reply LS on differentiation of sDCI mTRP, mDCI mTRP and sTRP (R1- 2501611; contact: CATT) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL-Core To:RAN2

[R2-2501723](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501723.zip) Reply LS on UL 8Tx (R1-2501636; contact: Samsung) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL-Core To:RAN2

[R2-2502105](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502105.zip) Corrections on simultaneousU-TCI-UpdateListx and RACH-ConfigTwoTA CATT CR Rel-18 38.331 18.5.1 5291 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2502810](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502810.zip) Discussion on supporting 8Tx ASUSTeK discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2502811](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502811.zip) Correction on supporting 8Tx in MAC specification ASUSTeK, Samsung, ZTE CR Rel-18 38.321 18.5.0 2068 - F NR\_MIMO\_evo\_DL\_UL-Core

=> Withdrawn

[R2-2502812](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502812.zip) Stage-2 Correction on UL 8Tx ASUSTeK CR Rel-18 38.300 18.5.0 0987 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2502835](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502835.zip) Correction on supporting 8Tx in MAC specification ASUSTeK, Samsung, ZTE CR Rel-18 38.321 18.5.0 1990 2 F NR\_MIMO\_evo\_DL\_UL-Core [R2-2500410](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500410.zip)

[R2-2502855](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502855.zip) Correction to 306 on PMI subband R value Ericsson CR Rel-18 38.306 18.5.0 1267 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2502987](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502987.zip) Correction for UE capability on DMRS port Huawei, HiSilicon discussion Rel-18 NR\_MIMO\_evo\_DL\_UL

#### 7.0.2.14 Enhancements of NR Multicast and Broadcast Services

(NR\_MBS\_enh-Core; leading WG: RAN2; REL-18; WID: [RP-231829](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-231829.zip))

#### 7.0.2.15 Enhancement on NR QoE management and optimizations for diverse services

(NR\_QoE\_enh-Core; leading WG: RAN3; REL-18; WID: [RP-223488](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223488.zip))

[R2-2501729](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501729.zip) Reply LS on MBS Communication Service Type (R3-250858; contact: ZTE) RAN3 LS in Rel-18 NR\_QoE\_enh-Core To:SA4 Cc:RAN2, SA5

#### 7.0.2.16 XR Enhancements for NR

(NR\_XR\_enh-Core; leading WG: RAN2; REL-18; WID: [RP-230786](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_99/Docs/RP-230786.zip))

[R2-2502092](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502092.zip) Discussion on issues with retx-less CG Huawei, HiSIlicon, Apple, Futurewei, Qualcomm discussion Rel-18 NR\_XR\_enh-Core

[R2-2502297](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502297.zip) Discussing on issues on DSR and proposed TP to PDCP Xiaomi Communications discussion

[R2-2502857](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502857.zip) Corrections on PDCP SN Gap Reporting Samsung discussion Rel-18 38.323

[R2-2502933](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502933.zip) DSR inclusion Ericsson CR Rel-18 38.321 18.5.0 2069 - D NR\_XR\_enh-Core

#### 7.0.2.17 NR NTN enhancements

(NR\_NTN\_enh-Core; leading WG: RAN1; REL-18; WID: [RP-232669](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232669.zip))

[R2-2501717](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501717.zip) Reply LS on soft satellite switch with re-sync (R1-2501606; contact: Huawei) RAN1 LS in Rel-18 NR\_NTN\_enh-Core To:RAN2

[R2-2501727](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501727.zip) Reply LS on inter-gNB RACH-less HO in NTN (R3-250762; contact: Nokia) RAN3 LS in Rel-18 NR\_NTN\_enh-Core To:RAN2 Cc:RAN1

[R2-2501741](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501741.zip) reply LS on soft satellite switch with re-sync (R4-2502701; contact: Huawei) RAN4 LS in Rel-18 NR\_NTN\_enh-Core To:RAN2, RAN1

[R2-2501747](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501747.zip) Reply LS to RAN2 on UE capabilities for F[R2-NTN](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-NTN.zip) (R4-2503039; contact: vivo) RAN4 LS in Rel-18 NR\_NTN\_enh-Core To:RAN2 Cc:RAN1

[R2-2501771](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501771.zip) Discussion on RAN1 and RAN4 Reply LS on Soft Satellite Switch with Re-sync vivo discussion Rel-18 NR\_NTN\_enh-Core

[R2-2501782](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501782.zip) Correction on NTN in F[R2-NTN](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-NTN.zip) bands vivo, ZTE Corporation, Ericsson, Sanechips CR Rel-18 38.306 18.5.0 1200 1 F NR\_NTN\_enh-Core [R2-2409544](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2409544.zip)

[R2-2502009](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502009.zip) Correction to RACH-less handover for NTN Xiaomi CR Rel-18 38.300 18.5.0 0977 - F NR\_NTN\_enh-Core

[R2-2502294](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502294.zip) Discussion on the reply LS from RAN1/RAN4 on soft satellite switch CATT discussion

[R2-2502327](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502327.zip) Discussion on the satellite switch with sync OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2502523](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502523.zip) Discussion on ssb-TimeOffset for soft satellite switch with resync ZTE Corporation, Sanechips discussion Rel-18 NR\_NTN\_enh-Core

[R2-2502539](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502539.zip) Discussion on the reply LSs on the soft satellite switch with resynchronization Xiaomi discussion

[R2-2502550](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502550.zip) Further Considerations on SSBs from Source and Target Satellite in Soft Switching with Resynchronization Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2502653](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502653.zip) Way forward for soft satellite switch with resync Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2502669](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502669.zip) Correction to Rel-18 NR NTN CHO with only location/time-based trigger Samsung CR Rel-18 38.331 18.5.1 5314 - F NR\_NTN\_enh-Core

[R2-2502670](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502670.zip) Correction to Rel-18 NR NTN CHO with only location/time-based trigger Samsung CR Rel-18 38.306 18.5.0 1263 - F NR\_NTN\_enh-Core

[R2-2502681](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502681.zip) LS response to RAN1 and RAN4 for soft satellite switch with re-sync Ericsson discussion Rel-18 NR\_NTN\_enh-Core

[R2-2502740](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502740.zip) Discussion on LS from RAN1,RAN4 on soft satellite switch with re-sync CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2502842](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502842.zip) Discussion on satellite switch with resync Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh-Core

#### 7.0.2.18 IoT NTN enhancements

(IoT\_NTN\_enh-Core; leading WG: RAN2; REL-18; WID: [RP-223519](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223519.zip))

[R2-2501726](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501726.zip) Reply LS on UE Location Information for NB-IoT NTN (R3-250761; contact Qualcomm) RAN3 LS in Rel-18 IoT\_NTN\_enh-Core To:SA2 Cc:RAN2, CT1

[R2-2501968](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501968.zip) Correction on SIB33 reception in RRC\_CONNECTED Huawei, HiSilicon CR Rel-18 36.331 18.5.0 5105 - F IoT\_NTN\_enh-Core

[R2-2502522](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502522.zip) Corrections to location-based measurement ZTE Corporation, Ericsson, CATT, Sanechips CR Rel-18 36.300 18.4.0 1417 - F IoT\_NTN\_enh-Core

[R2-2502687](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502687.zip) Correction on release procedures when HARQ feedback is not configured Samsung CR Rel-18 36.331 18.5.0 5112 - F IoT\_NTN\_enh-Core

#### 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))

[R2-2502184](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502184.zip) Correction to PC5 RLC Channel Release Apple, ASUSTek CR Rel-18 38.331 18.5.0 5292 - F NR\_SL\_relay\_enh-Core

[R2-2502779](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502779.zip) Discussion on prerequisite of Rel-17/18 SL relay capability Samsung, OPPO, Xiaomi, Huawei, HiSilicon discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2502813](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502813.zip) Correction on terminology of local ID pair list ASUSTeK CR Rel-18 38.331 18.5.1 5319 - F NR\_SL\_relay\_enh-Core

[R2-2502814](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502814.zip) Correction on mapping bi-directional E2E sidelink DRB to two AM RLC entities for L2 U2U Relay ASUSTeK CR Rel-18 38.331 18.5.1 5320 - F NR\_SL\_relay\_enh-Core

[R2-2502936](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502936.zip) Correction on sidelink relay RRC specification ZTE Corporation, Sanechips CR Rel-18 38.331 18.5.1 5331 - F NR\_SL\_relay\_enh-Core

#### 7.0.2.20 TEI18

[R2-2502476](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502476.zip) Correction on UE capability for SIB17bis Huawei, HiSilicon CR Rel-18 38.306 18.5.0 1250 - F NR\_UE\_pow\_sav\_enh-Core, TEI18

**NB-IoT in-band operation to be treated in NTN breakout session**

[R2-2501746](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501746.zip) LS on NR NB-IoT in-band operation (R4-2503035; contact: Ericsson) RAN4 LS in Rel-19 TEI18 To:RAN2 Cc:RAN1

[R2-2501773](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501773.zip) Discussion on RAN4 LS on IoT NTN and NR NTN Inband Operation. vivo discussion Rel-18 TEI18

[R2-2502047](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502047.zip) RAN2 impacts for NB-IoT operation as NR Inband Nokia , Nokia Shanghai Bells discussion

[R2-2502682](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502682.zip) In-band operation for NB-IoT Ericsson discussion Rel-18 TEI18

#### 7.0.2.21 Others

Including Multi-WI Rel-18 items, e.g. cross-WI-issues not handled under another WI

[R2-2502508](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502508.zip) Type clarification for intraBandNR-CA-non-collocated-r18 Apple, Huawei, HiSilicon, xiaomi CR Rel-18 38.306 18.5.0 1254 - F NonCol\_intraB\_ENDC\_NR\_CA, TEI18

## 7.1 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))

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

Minor and editorial issues should be coordinated with the appropriate spec rapporteur and submitted by rapporteur company together with any additional corrections the rapporteur company may have. Larger issues can be discussed based on contributions/individual CRs.

### 7.1.1 Organizational

Including incoming LSs and rapporteur inputs.

[R2-2501708](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501708.zip) Reply LS on co-existence of SL-CA and SL PRS transmission/reception in Dedicated SL-PRS resource pool (R1-2501479; contact: vivo) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2

[R2-2502973](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502973.zip) Correction on NW restriction for dedicated SL-PRS resource pool vivo, Ericsson CR Rel-18 38.331 18.5.1 5104 1 F NR\_pos\_enh2-Core [R2-2409639](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2409639.zip)

### 7.1.2 Stage 2

Impact to 38.300, 37.340, and 38.305.

This agenda item may be handled at lower priority.

### 7.1.3 SLPP corrections

Impact to 38.355.

[R2-2501896](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501896.zip) Missing rate of change direction of azimuth/elevation for relative velocity Xiaomi, Qualcomm, CATT, Huawei, MediaTek Inc. CR Rel-18 38.355 18.5.0 0015 - F NR\_pos\_enh2-Core

### 7.1.4 LPP corrections

Impact to 37.355.

[R2-2501852](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501852.zip) Corrections on the descriptions of nr-PeriodicOrOneShotTimeWindow and nr-StartSFN-TimeWindow CATT, Qualcomm Incorporated CR Rel-18 37.355 18.4.0 0548 - F NR\_pos\_enh2-Core

[R2-2502274](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502274.zip) Correction on the periodic AD of NR integrity service alert Huawei, HiSilicon CR Rel-18 37.355 18.4.0 0549 - F NR\_pos\_enh2-Core

### 7.1.5 RRC corrections

Impact to 38.331 and 38.306.

[R2-2501793](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501793.zip) Correction on condition-based IUC for shared SL-PRS resource pool vivo, Ericsson draftCR Rel-18 38.331 18.5.0 F NR\_pos\_enh2-Core

[R2-2502079](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502079.zip) Correction on SL positioning UE capability Huawei, HiSilicon CR Rel-18 38.331 18.5.1 5289 - F NR\_pos\_enh2-Core

=> Withdrawn

[R2-2502663](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502663.zip) RRC Sidelink Positioning Correction Ericsson, vivo CR Rel-18 38.331 18.5.0 5313 - F NR\_pos\_enh2-Core

[R2-2502815](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502815.zip) Correction on sl-PRS-ResourcePoolID for SL-PRS CG ASUSTeK CR Rel-18 38.331 18.5.1 5321 - F NR\_pos\_enh2-Core

[R2-2502888](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502888.zip) Corrections on RRC connection resume procedure initiated by activation or configuration of positioning SRS CATT CR Rel-18 38.331 18.5.1 5323 - F NR\_pos\_enh2-Core

### 7.1.6 MAC corrections

Impact to 38.321.

[R2-2502078](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502078.zip) Correction to UTW for positioning SRS frequency hopping Huawei, HiSilicon CR Rel-18 38.321 18.5.0 2058 D NR\_pos\_enh2-Core

[R2-2502080](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502080.zip) Correction on SRS hopping in positioning ZTE Corporation, Ericsson, CATT, Samsung, vivo, Xiaomi, Qualcomm, Lenovo CR Rel-18 38.321 18.5.0 2031 2 F NR\_pos\_enh2-Core [R2-2501428](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501428.zip)

[R2-2502081](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502081.zip) Discussion and draft LS for startSFN in UTW ZTE Corporation discussion Rel-18 NR\_pos\_enh2-Core

### 7.1.7 Corrections to other specifications

Impact to any specifications not identified above.

## 7.2 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID:RP-233970)

Time budget: 0 TU)

Minor and editorial issues should be coordinated with the CR rapporteur. Note RRC CR and MAC CR rapporteurs’ summary and suggestion (based on the submitted contributions) may be provided.

Tdoc Limitation: 1 tdocs.

[R2-2501730](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501730.zip) Reply LS on L3 measurement based LTM support over F1 (R3-250879; contact: Vodafone) RAN3 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2 Cc:RAN4, RAN

[R2-2501736](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501736.zip) Reply LS on the fast RRC processing for LTM (R4-2420218; contact: Ericsson) RAN4 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

[R2-2501737](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501737.zip) LS on UE capability for L1-RSRP measurement in LTM (R4-2502619; contact: vivo) RAN4 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

[R2-2501748](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2501748.zip) Reply LS on L3 measurement based LTM support over F1 (RP-250790; contact: Vodafone) RAN LS in Rel-18 NR\_Mob\_enh2-Core To:RAN3 Cc:RAN2, RAN4

[R2-2501904](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501904.zip) Handling of the default SRB configuration upon LTM execution CATT CR Rel-18 38.331 18.5.1 5285 - F NR\_Mob\_enh2-Core

[R2-2501932](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501932.zip) Correction on LTM UE Capability based on the RAN4 LS MediaTek Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2501976](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501976.zip) Clarification on LTM cell switch failure recovery Google Korea LLC discussion Rel-18 38.331

[R2-2502169](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502169.zip) Discussion on indication from MAC to RRC layer in RACH-based LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2502170](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502170.zip) Correction on UE capability for L1-RSRP measurement in LTM vivo, Ericsson, Xiaomi CR Rel-18 38.306 18.5.0 1249 - F NR\_Mob\_enh2-Core

[R2-2502171](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502171.zip) Correction on the maximum number of SSB rsources for L1 maeasurement without gaps in LTM vivo, Ericsson, Xiaomi CR Rel-18 38.331 18.5.1 5302 - F NR\_Mob\_enh2-Core

[R2-2502533](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502533.zip) Capability coordination for LTM Ericsson CR Rel-18 38.331 18.5.1 5305 - F NR\_Mob\_enh2-Core

[R2-2502553](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502553.zip) Remaining Rel-18 LTM Corrections Nokia discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2502600](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502600.zip) Rel-18 LTM issues Ofinno, LLC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2502942](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502942.zip) Handling of PUCCH resources for L1 LTM reports at TAT expiry Huawei, HiSilicon CR Rel-18 38.331 18.5.1 5332 - F NR\_Mob\_enh2-Core

[R2-2502971](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502971.zip) Handling of PUCCH resources for L1 LTM reports at TAT expiry Huawei, HiSilicon CR Rel-18 38.331 18.5.1 5332 1 F NR\_Mob\_enh2-Core [R2-2502942](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502942.zip)

[R2-2502943](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502943.zip) MAC CR rapporteur summary Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2502966](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502966.zip) Discussion on eEMR/IMR and LTM L2 Reset/UE-based TA measurement Samsung Electronics Czech discussion Rel-18 38.331 NR\_Mob\_enh2-Core

[R2-2502979](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502979.zip) Summary of RRC proposals for FeMob Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

## 7.6 NR Sidelink evolution

(NR\_SL\_enh2-Core; leading WG: RAN1; REL-18; WID: [RP-230077](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230077.zip))

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

[R2-2501735](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501735.zip) LS on AdditionalSpectrumEmission in NR SL Pre-configuration (R4-2418075; contact: LGE) RAN4 LS in Rel-18 NR\_SL\_enh2-Core To:RAN2 Cc:RAN1

[R2-2502061](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502061.zip) Discussion on resource re-selection in case of LBT failure on MCSt LG Electronics Inc. discussion Rel-18 38.321 NR\_SL\_enh2-Core

[R2-2502062](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502062.zip) MAC correction on Release-18 Sidelink evolution LG Electronics Inc. CR Rel-18 38.321 18.5.0 2057 - F NR\_SL\_enh2-Core

[R2-2502185](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502185.zip) Correction on MCSt Restriction for Resource Selection Apple CR Rel-18 38.321 18.5.0 2060 - F NR\_SL\_enh2-Core

[R2-2502322](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502322.zip) Discussion on resource re-selection from SL LBT Failure indication Ericsson, Apple, Qualcomm Incorporated, vivo discussion Rel-18 NR\_SL\_enh2-Core

[R2-2502935](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502935.zip) Correction on sidelink RRC specification ZTE Corporation, Sanechips, Ericsson CR Rel-18 38.331 18.5.1 5330 - F NR\_SL\_enh2-Core

## 7.8 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: 1 TU

Tdoc Limitation: 2

### 7.8.1 RAN4 led items

[R2-2501745](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501745.zip) LS on clarification for intraBandNR-CA-non-collocated-r18 and interBandMRDC-WithOverlapDL-Bands-r16 (R4-2503033; contact: Apple, Huawei) RAN4 LS in Rel-18 NonCol\_intraB\_ENDC\_NR\_CA To:RAN2

[R2-2502899](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502899.zip) Clarification on capability for inter-frequency configuration for less than 5MHz Huawei, HiSilicon, Xiaomi, Samsung, Qualcomm Incorporated CR Rel-18 38.306 18.5.0 1196 2 F NR\_FR1\_lessthan\_5MHz\_BW [R2-2409385](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2409385.zip)

### 7.8.2 RAN1 led items

[R2-2502270](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502270.zip) Adding enabledDefaultBeamFormultiCellScheduling Huawei, HiSilicon, NTT DOCOMO INC. CR Rel-18 38.331 18.5.1 5294 - F NR\_MC\_enh-Core

[R2-2502634](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502634.zip) Correction to ULTxSwitchingBandPair-r18 Nokia CR Rel-18 38.306 18.5.0 1262 - F NR\_MC\_enh-Core

### 7.8.3 Other

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

# 8 Rel-19

## 8.0 General

This AI is reserved for Rel-19 LSs from other WGs. No contributions are expected on these LSs for this meeting

[R2-2501707](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501707.zip) LS on Rel-19 RAN1 UE features list for NR after RAN1#120 (R1-2501399; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-19 NR\_MIMO\_Ph5, NR\_duplex\_evo, Netw\_Energy\_NR\_enh, NR\_LPWUS, NR\_XR\_Ph3 To:RAN2 Cc:RAN4

[R2-2501724](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501724.zip) LS on Rel-19 higher layers parameters list Post RAN1#120 (R1-2501644; contact: Ericsson) RAN1 LS in Rel-19 NR\_MIMO\_Ph5, NR\_duplex\_evo, Netw\_Energy\_NR\_enh, NR\_LPWUS, NR\_XR\_Ph3 To:RAN2, RAN3 Cc:RAN4

**ASN.1 review/RRC guidelines**

[R2-2502093](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502093.zip) Discussion on R19 ASN1 review Huawei, HiSilicon discussion Rel-19

[R2-2502764](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502764.zip) Report on [POST129][ASN.1] ASN.1 Review Process Improvements in Release 19 (Nokia) Nokia discussion Rel-19

[R2-2502643](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502643.zip) RRC CR Guidelines Ericsson discussion

[R2-2502440](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502440.zip) R19 ASN.1 identifier naming conventions and check list Huawei, HiSilicon discussion Rel-19

**UE capability handling**

[R2-2502767](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502767.zip) Rel-19 UE capability handling Xiaomi discussion Rel-19 NR\_newRAT-Core

## 8.1 AI/ML for NR air interface

(NR\_AIML\_air-Core; leading WG: RAN1; REL-19; WID: RP-250792 and SID: RP-243245)

Time budget: 2.5 TU

Tdoc Limitation: 5 tdocs

### 8.1.1 Organizational

LS, Rapporteur input, including workplan.

Including outcome of [POST129][024][AI PHY] Stage 2 running CR and [POST129][025][AI PHY] RRC running CR (Ericsson)

**LS**

RAN2 in “To”

[R2-2501721](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501721.zip) LS on AI/ML Positioning Case 3b (R1- 2501628; contact: Ericsson) RAN1 LS in Rel-19 NR\_AIML\_air To:RAN3, RAN2

[R2-2502661](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502661.zip) LS on AI/ML Positioning Case 3b Ericsson discussion Rel-19

RAN2 in “CC”

[R2-2501710](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501710.zip) Reply LS on LMF-based AI/ML Positioning for Case 2b (R1-2501523; contact: vivo) RAN1 LS in Rel-19 AIML\_CN To:SA2 Cc:RAN2, RAN3

[R2-2501711](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501711.zip) Reply LS on LMF-based AI/ML Positioning for Case 3b (R1- 2501525; contact: Ericsson) RAN1 LS in Rel-19 AIML\_CN To:SA2 Cc:RAN2, RAN3

[R2-2501728](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501728.zip) Reply LS on LMF-based AI/ML Positioning for case 3b (R3-250796; contact: ZTE) RAN3 LS in Rel-19 AIML\_CN, NR\_AIML\_air, NR\_AIML\_air-Core To:SA2 Cc:RAN1, RAN2

**Running CRs**

[R2-2501806](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501806.zip) Introduction of AI for Air interface feature in 38300 vivo(Rapporteur) draftCR Rel-18 38.300 18.5.0 NR\_AIML\_air-Core

[R2-2501920](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501920.zip) 38.305 running CR for AIML Positioning CATT draftCR Rel-19 38.305 18.5.0 B NR\_AIML\_air-Core

[R2-2502123](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502123.zip) Running MAC CR for AI/ML for Air Interface Apple (Rapporteur) draftCR Rel-19 38.321 18.5.0 B NR\_AIML\_air-Core

[R2-2502618](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502618.zip) Running CR for AI/ML Positioning Accuracy Enhancements Qualcomm Incorporated draftCR Rel-19 37.355 18.4.0 B NR\_AIML\_air-Core

[R2-2502903](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502903.zip) Draft RRC running CR for AIML PHY Ericsson draftCR Rel-19 38.331 18.5.1 B NR\_AIML\_air-Core

**Other Documents**

[R2-2502793](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502793.zip) Open issue list for running 37.320 CR for R19 AI for PHY Huawei, HiSilicon, Ericsson discussion Rel-19 NR\_AIML\_air-Core

[R2-2502794](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502794.zip) Draft LS on OAM-centric solution for NW-side data collection Huawei LS out Rel-19 NR\_AIML\_air-Core To:SA5, RAN3

### 8.1.2 Functionality based LCM

Contributions should focus on general understanding of LCM procedure (except for data collection and model transfer/delivery), what is required to enable the UE to perform different steps of the LCM procedure, what is the granularity of functionality, dependencies with RAN1 and what is needed from RAN1 to progress in RAN2

Contributions should be submitted in 8.1.2.x and aspects related to data collections should be submitted in data collection section

Two-sided model discussions are out of scope of this AI

#### 8.1.2.1 LCM for NW-sided model for Beam Management use case

LCM related to NW-sided model for beam management use case only

No contributions expected for this meeting, waiting for further RAN1 progress

#### 8.1.2.2 LCM for UE-sided model for Beam Management use case

Including functionality identification, additional conditions and further reporting of applicable functionalities, and any necessary signaling/protocol aspects. Contributions should attempt to take into consideration the reply LS from RAN1 (R1-2410898) on BM applicable functionality reporting.

**Details related to Option B: Inference related parameters for applicability determination/reporting**

[R2-2501783](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501783.zip) Discussion on Applicable Functionality Reporting Option B for BM OPPO, Lenovo, ZTE Corporation, Apple, Huawei, HiSilicon, CATT, vivo, CMCC, NTT DOCOMO, Samsung, LG Electronics, Xiaomi, InterDigital discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: Option B works like the following way:

* + - Procedure 1: UE receives RRCReconfiguration message including one set or multiple sets of inference related parameters via OtherConfig.
    - Procedure 2: For initial reporting, UE sends RRCReconfigurationComplete message including applicability and/or inapplicability, e.g. by indicating whether one set or multiple sets of inference related parameters are applicable or inapplicable.
    - Procedure 3: For subsequent reporting upon change: UE sends UEAssistanceInformation message including applicability and/or inapplicability, e.g. by indicating whether one set or multiple sets of inference related parameters are applicable or inapplicable.

Proposal 2: For Option B, after reporting applicability, the UE waits NW to send RRCReconfiguration message with full inference configuration in CSI-ReportConfig.

Alternative view to Procedure 1:

[R2-2502763](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502763.zip) LCM for UE-side Beam Management Nokia discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: CSI-ReportConfig, included in CSI-MeasConfig -> csi-ReportConfigToAddModList, is used to transmit one or multiple sets inference-related parameters for beam prediction.

Proposal 2: Add a flag to CSI-ReportConfig to indicate that a configuration contains one or multiple sets of inference-related parameters instead of a full configuration. This flag could also be used as an indication that the configuration is subject to the applicability determination procedure.

Proposal 3: As an alternative to providing inference-related parameters in CSI-MeasConfig -> csi-ReportConfigToAddModList, a new list of CSI-ReportConfigs containing inference-related parameters could be defined.

Alternative view to Procedure 2:

[R2-2501807](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501807.zip) Discussion on LCM for UE-sided model for Beam Management vivo discussion NR\_AIML\_air-Core

Proposal 5. For Option B, the UE feedbacks the applicability reporting via a UAI message upon receiving one set or multiple sets of inference related parameters.

**Parameters included within Option B**

[R2-2501783](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501783.zip) Discussion on Applicable Functionality Reporting Option B for BM OPPO, Lenovo, ZTE Corporation, Apple, Huawei, HiSilicon, CATT, vivo, CMCC, NTT DOCOMO, Samsung, LG Electronics, Xiaomi, InterDigital discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: For Option B for BM Case 1/2, one set or multiple sets of inference related parameters can be configured in OtherConfig, where each set in OtherConfig contains the following parameters indicated in RAN1 reply LS (R1-2410898) as baseline:

* + - One or more associated ID(s).
    - Set A related information.
    - Set B related information.
    - Time instances related information for prediction (For BM Case 2 only).

FFS the parameter details for Set A/Set B.

FFS whether associated ID is mandatory or optional.

*Other details of Option B parameters (if time allows)*

[R2-2502108](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502108.zip) Further Discussion on LCM for UE-side Model for AI-BM MediaTek Inc. discussion

Proposal 2: Each set of inference parameters is identified by an index.

[R2-2502124](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502124.zip) Remaining issues on LCM procedure of UE-sided model for AI/ML based beam management Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: To avoid ambiguity of applicability reporting between Option A and B, introduce CSI-ReportConfigId under the set of inference related parameters as identifier of the set.

Proposal 10: RAN2 confirm that option A and option B can be configured in the same RRCReconfiguration message with the unified applicability report procedure. And a separate UE capability is introduced for option B to allow more flexibility.

**Applicability reporting**

*Cause of non-applicability*

[R2-2501921](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501921.zip) Discussion on applicability reporting for BM use case CATT discussion Rel-19 NR\_AIML\_air-Core

Proposal 7: No explicit cause is reported along with the non-applicable functionality reporting.

[R2-2501940](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501940.zip) Unified Signaling Structure and Further consideration on applicability reporting Xiaomi discussion Rel-19 NR\_AIML\_air-Core

Proposal 6: Together with inapplicability reporting, UE further indicates cause value of inapplicability, i.e., 1) not applicable to NW-side additional condition, 2) not applicable to UE-side additional condition and/or 3) model is not available in device.

*Inference configuration handling upon non-applicability*

[R2-2501784](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501784.zip) LCM for UE-sided model for Beam Management use case OPPO discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: Upon receiving one or more full inference configuration(s) via RRCReconfiguration message, UE shall maintain all the full inference configuration(s) no matter the full inference configuration is applicable or inapplicable until the network releases it explicitly.

Proposal 3: Upon receiving one or more full inference configuration(s) via RRCReconfiguration message, UE shall not activate the periodic CSI reporting for an inapplicable full inference configuration.

[R2-2502902](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502902.zip) LCM for UE-side models for beam management Ericsson discussion

Proposal 6: If the UE reports a periodic CSI report configuration (i.e. full inference configuration in CSI-ReportConfig) as non-applicable in the initial applicability report, the UE releases the configuration.

*Prohibit timer for applicability reporting*

[R2-2502411](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502411.zip) Continuous Discussion On LCM for UE-sided model ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: The UE can be configured with a prohibit timer. This timer starts once the UE initiates applicability reporting for a specific functionality either via the UAI or RRCReconfigurationComplete. Before the prohibit timer expires, the UE will refrain from initiating another UAI to report applicability for the same functionality. Reporting of inapplicability is not restricted by this prohibit timer.

[R2-2502599](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502599.zip) Discussion on LCM for UE-sided model for Beam Management use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 13: The NW can configure different values of the prohibit timer for “applicable to non-applicable” update and “non-applicable to applicable” update to be applied for functionalities that are not currently configured for inference operation. If a functionality that is currently configured for inference operation becomes non-applicable, the UE should immediately report the status change.

*Contents of applicability report (if time allows)*

[R2-2502636](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502636.zip) On LCM for UE-sided Model for Beam Management Use Case SHARP Corporation discussion

Proposal 11: The UE may indicate preferred configuration (s) to the network (e.g., preferred CSI-ReportConfig) in step 4.

[R2-2502366](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502366.zip) Left issues related to applicability report for AIML based BM Lenovo discussion Rel-19

Proposal 6: In the applicability report, cell information is needed to unambiguously identify CSI report configurations for prediction.

**Data collection (if time allows)**

*Remaining details on data collection request*

[R2-2502124](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502124.zip) Remaining issues on LCM procedure of UE-sided model for AI/ML based beam management Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: The UE request signaling for data collection of AI/ML based beam management may include:

• The indication on start/stop of data collection

• Preferred configuration from a list of candidate configurations provided by NW, where each candidate configuration includes at least CSI resource set A/B and associated ID. Its details are up to RAN1.

Proposal 2: Introduce UAI message for UE request of data collection configuration. And it is up to UE implementation when to send the request.

[R2-2502599](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502599.zip) Discussion on LCM for UE-sided model for Beam Management use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 15: RAN2 to agree that the UE just indicates a simple request to NW if it needs data collection configurations, and UE capability reporting is left to RAN1.

*UE behaviour when it cannot fulfil data collection request*

[R2-2502729](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502729.zip) Discussion on LCM for UE-sided model for BM CMCC discussion Rel-19 NR\_AIML\_air-Core

Proposal 4: When the UE can’t perform data collection for model training based on received configuration, other UE behaviors in connected mode should not be affected.

Proposal 5: An indication is introduced in RRCReconfigurationComplete message when UE can’t perform data collection based on received configuration.

[R2-2502124](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502124.zip) Remaining issues on LCM procedure of UE-sided model for AI/ML based beam management Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: As the UE may send data collection request via UAI based on its implementation, no need to introduce a separate indication signaling when UE can’t perform data collection based on received configuration.

*Prohibit timer for data collection configuration request*

[R2-2502263](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502263.zip) LCM for UE-sided Model for BM Google discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: For data collection configuration with UE request, a prohibit timer is introduced to prevent the UE from immediately re-initiating a data collection request.

**Performance monitoring (if time allows)**

[R2-2502024](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502024.zip) Discussion on LCM for UE-sided Model for Beam Management Use Case Fujitsu discussion Rel-19 NR\_AIML\_air-Core

Proposal 5 RAN2 starts at least the following discussions while waiting for further RAN1 input.

 Mechanism to trigger the performance monitoring procedure.

 Potential signaling to complete the performance monitoring procedure.

Not treated

[R2-2502020](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502020.zip) LCM for UE-sided model for BM LG Electronics discussion Rel-19 NR\_AIML\_air-Core

[R2-2502115](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502115.zip) Discussion on LCM for UE-sided model for beam management Samsung discussion Rel-19 NR\_AIML\_air-Core

[R2-2502239](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502239.zip) Further consideration on LCM for UE-sided model for BM use case China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2502280](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502280.zip) Discussion on signalling procedure of supporting applicability report Option B NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2502290](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502290.zip) On LCM for UE-sided Models for Beam Management Qualcomm Incorporated discussion Rel-19

[R2-2502421](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502421.zip) Discussion on UE-sided model LCM for BM Transsion Holdings discussion Rel-19

[R2-2502434](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502434.zip) Discussion on LCM for UE-sided model for Beam Management Spreadtrum, UNISOC discussion Rel-19

[R2-2502483](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502483.zip) Some aspects for model monitoring on UE side Sony discussion Rel-19 NR\_AIML\_air-Core

[R2-2502590](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502590.zip) Discussion on LCM for UE-Side Model for Beam Management Futurewei Technologies discussion Rel-19

[R2-2502772](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502772.zip) LCM for UE-sided Model for Beam Management Use Case SHARP Corporation discussion [R2-2502636](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502636.zip)

[R2-2502637](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502637.zip) LCM for UE-sided model for Beam Management use case InterDigital discussion Rel-19 NR\_AIML\_air-Core

[R2-2502816](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502816.zip) Discussion on LCM for UE-sided models ASUSTeK discussion Rel-19 NR\_AIML\_air-Core

[R2-2502854](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502854.zip) Remaining Issues on LCM for UE-sided model in Beam Management use case Kyocera discussion

#### 8.1.2.3 LCM for Positioning use case

Contributions should focus on LCM for UE-sided model, but can discuss NW-sided model. Aspects related to data collection should be covered in 8.1.3

**LMF control on applicability reporting**

[R2-2502137](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502137.zip) Discussion on LCM for POS use case Samsung discussion Rel-19 NR\_AIML\_air-Core

Proposal. 2: UE reports the applicable functionality to the LMF by the LPP provide capabilities message without any additional LMF control.

[R2-2502367](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502367.zip) LCM for AIML based positioning with UE-sided model Lenovo discussion Rel-19

Proposal 2: If any mechanism is needed to avoid UE reporting “applicability” right after “inapplicability” has been reported for the same AIML based positioning, a prohibit timer based approach can be considered.

**Fallback/switching from AIML to non-AIML**

[R2-2502758](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502758.zip) Discussion on UE autonomous switching between AI/ML and non-AI/ML methods LG Electronics Inc. discussion Rel-19

Proposal 2: UE autonomous switching between AI/ML and non-AI/ML methods should be supported.

Proposal 3: Options/configurations for UE autonomous switching can be configured in RequestLocationInformation message e.g., LocationInformationType.

Proposal 4: Four options can be utilized in LocationInformationType for UE autonomous switching.

* + - Option 1: Switching AI/ML-based calculation to legacy UE-based calculation using same measurement, e.g., switch AI/ML-based DL TDoA to legacy DL TDoA
    - Option 2: Switching AI/ML-based method to legacy method, e.g., switch AI/ML-based DL TDoA to legacy DL AoD:
    - Option 3: Switching AI/ML-based UE-based method to legacy UE-assisted method, e.g., switch AI/ML-based UE-based DL TDoA to legacy UE-assisted DL TDoA)
    - Option 4: Switching AI/ML-based UE-based method to AI/ML-based UE-assisted method, e.g., switch AI/ML positioning Case 1 to AI/ML positioning Case 2b

[R2-2502617](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502617.zip) LCM for positioning use case Qualcomm Incorporated discussion

Proposal 1: UE autonomous switching/fallback between AI/ML and non-AI/ML methods is not allowed.

Proposal 2: Switching/fallback to non-AI/ML positioning can be supported by including multiple positioning methods in a LPP Request Location Information message. No additional specification work is foreseen specifically for supporting "switching/fallback operation".

**Other details (if time allows)**

Functionality management

[R2-2501808](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501808.zip) Discussion on remaining issues of AI/ML enhanced positioning vivo discussion NR\_AIML\_air-Core

Proposal 5: LMF is responsible for functionality management based on performance monitoring results calculated by target UE or LMF.

(De)activation of inference configuration

[R2-2502638](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502638.zip) LCM for Positioning use case InterDigital discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: An AIML positioning functionality is considered “actived” once UE receives an LPP RequestLocationInformation from the LMF requesting inferred location information.

Proposal 3: LMF is expected to deactivate activated functionality when it receives non-applicability indication from UE (i.e., UE doesn’t autonomously deactivate).

[R2-2501941](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501941.zip) Discussion on the LCM for AI positioning case 1 Xiaomi discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: For triggered reporting, AI/ML positioning case 1 is deactivated autonomously after providing inference results in ProvideLocationInformation. For periodical reporting, LMF/UE deactivates AI/ML positioning case 1 via Abort message.

**Not Treated**

[R2-2501787](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501787.zip) LCM for Positioning use case OPPO discussion Rel-19 NR\_AIML\_air-Core

[R2-2501827](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501827.zip) Discussion on LCM for Positioning Use Case HONOR discussion Rel-19 NR\_AIML\_air-Core

[R2-2501856](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501856.zip) LCM for Positioning use case NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2501922](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501922.zip) Issues to address for AIML Positioning stage-2 CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2502025](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502025.zip) Discussion on LCM for Positioning Use Case Fujitsu discussion Rel-19 NR\_AIML\_air-Core

[R2-2502084](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502084.zip) Discussion on LCM for positioning use case ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[R2-2502125](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502125.zip) Remaining issues on LCM procedure of AI/ML based positioning Apple discussion Rel-19 NR\_AIML\_air-Core

[R2-2502240](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502240.zip) Performance monitoring for positioning use case China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2502443](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502443.zip) Association of measurements and ground truth labels for positioning use-cases Fraunhofer IIS, Fraunhofer HHI discussion [R2-2500174](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500174.zip)

[R2-2502639](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502639.zip) Reporting of applicability and inference configurations Nokia discussion Rel-19 NR\_AIML\_air-Core

[R2-2502662](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502662.zip) LCM For Positioning Ericsson discussion Rel-19

[R2-2502697](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502697.zip) Discussion on LCM for positioning CMCC discussion Rel-19 NR\_AIML\_air-Core

[R2-2502795](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502795.zip) Discussion on LCM for Positioning use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

[R2-2502802](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502802.zip) Discussion on Functionality-based LCM for Positioning Use Case CEWiT discussion

### 8.1.1 Organizational

LS, Rapporteur input, including workplan.

Including outcome of [POST129][024][AI PHY] Stage 2 running CR and [POST129][025][AI PHY] RRC running CR (Ericsson)

**LS**

RAN2 in “To”

[R2-2501721](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501721.zip) LS on AI/ML Positioning Case 3b (R1- 2501628; contact: Ericsson) RAN1 LS in Rel-19 NR\_AIML\_air To:RAN3, RAN2

[R2-2502661](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502661.zip) LS on AI/ML Positioning Case 3b Ericsson discussion Rel-19

RAN2 in “CC”

[R2-2501710](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501710.zip) Reply LS on LMF-based AI/ML Positioning for Case 2b (R1-2501523; contact: vivo) RAN1 LS in Rel-19 AIML\_CN To:SA2 Cc:RAN2, RAN3

[R2-2501711](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501711.zip) Reply LS on LMF-based AI/ML Positioning for Case 3b (R1- 2501525; contact: Ericsson) RAN1 LS in Rel-19 AIML\_CN To:SA2 Cc:RAN2, RAN3

[R2-2501728](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501728.zip) Reply LS on LMF-based AI/ML Positioning for case 3b (R3-250796; contact: ZTE) RAN3 LS in Rel-19 AIML\_CN, NR\_AIML\_air, NR\_AIML\_air-Core To:SA2 Cc:RAN1, RAN2

**Running CRs**

[R2-2501806](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501806.zip) Introduction of AI for Air interface feature in 38300 vivo(Rapporteur) draftCR Rel-18 38.300 18.5.0 NR\_AIML\_air-Core

[R2-2501920](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501920.zip) 38.305 running CR for AIML Positioning CATT draftCR Rel-19 38.305 18.5.0 B NR\_AIML\_air-Core

[R2-2502123](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502123.zip) Running MAC CR for AI/ML for Air Interface Apple (Rapporteur) draftCR Rel-19 38.321 18.5.0 B NR\_AIML\_air-Core

[R2-2502618](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502618.zip) Running CR for AI/ML Positioning Accuracy Enhancements Qualcomm Incorporated draftCR Rel-19 37.355 18.4.0 B NR\_AIML\_air-Core

[R2-2502903](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502903.zip) Draft RRC running CR for AIML PHY Ericsson draftCR Rel-19 38.331 18.5.1 B NR\_AIML\_air-Core

**Other Documents**

[R2-2502793](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502793.zip) Open issue list for running 37.320 CR for R19 AI for PHY Huawei, HiSilicon, Ericsson discussion Rel-19 NR\_AIML\_air-Core

[R2-2502794](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502794.zip) Draft LS on OAM-centric solution for NW-side data collection Huawei LS out Rel-19 NR\_AIML\_air-Core To:SA5, RAN3

### 8.1.2 Functionality based LCM

Contributions should focus on general understanding of LCM procedure (except for data collection and model transfer/delivery), what is required to enable the UE to perform different steps of the LCM procedure, what is the granularity of functionality, dependencies with RAN1 and what is needed from RAN1 to progress in RAN2

Contributions should be submitted in 8.1.2.x and aspects related to data collections should be submitted in data collection section

Two-sided model discussions are out of scope of this AI

#### 8.1.2.1 LCM for NW-sided model for Beam Management use case

LCM related to NW-sided model for beam management use case only

No contributions expected for this meeting, waiting for further RAN1 progress

#### 8.1.2.2 LCM for UE-sided model for Beam Management use case

Including functionality identification, additional conditions and further reporting of applicable functionalities, and any necessary signaling/protocol aspects. Contributions should attempt to take into consideration the reply LS from RAN1 (R1-2410898) on BM applicable functionality reporting.

**Details related to Option B: Inference related parameters for applicability determination/reporting**

General Procedure for Option B

[R2-2501783](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501783.zip) Discussion on Applicable Functionality Reporting Option B for BM OPPO, Lenovo, ZTE Corporation, Apple, Huawei, HiSilicon, CATT, vivo, CMCC, NTT DOCOMO, Samsung, LG Electronics, Xiaomi, InterDigital discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: Option B works like the following way:

* + - Procedure 1: UE receives RRCReconfiguration message including one set or multiple sets of inference related parameters via OtherConfig.
    - Procedure 2: For initial reporting, UE sends RRCReconfigurationComplete message including applicability and/or inapplicability, e.g. by indicating whether one set or multiple sets of inference related parameters are applicable or inapplicable.
    - Procedure 3: For subsequent reporting upon change: UE sends UEAssistanceInformation message including applicability and/or inapplicability, e.g. by indicating whether one set or multiple sets of inference related parameters are applicable or inapplicable.

Proposal 2: For Option B, after reporting applicability, the UE waits NW to send RRCReconfiguration message with full inference configuration in CSI-ReportConfig.

Alternative view to Procedure 1:

[R2-2502763](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502763.zip) LCM for UE-side Beam Management Nokia discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: CSI-ReportConfig, included in CSI-MeasConfig -> csi-ReportConfigToAddModList, is used to transmit one or multiple sets inference-related parameters for beam prediction.

Proposal 2: Add a flag to CSI-ReportConfig to indicate that a configuration contains one or multiple sets of inference-related parameters instead of a full configuration. This flag could also be used as an indication that the configuration is subject to the applicability determination procedure.

Proposal 3: As an alternative to providing inference-related parameters in CSI-MeasConfig -> csi-ReportConfigToAddModList, a new list of CSI-ReportConfigs containing inference-related parameters could be defined.

Alternative view to Procedure 2:

[R2-2501807](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501807.zip) Discussion on LCM for UE-sided model for Beam Management vivo discussion NR\_AIML\_air-Core

Proposal 5. For Option B, the UE feedbacks the applicability reporting via a UAI message upon receiving one set or multiple sets of inference related parameters.

*Parameters included within Option B*

[R2-2501783](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501783.zip) Discussion on Applicable Functionality Reporting Option B for BM OPPO, Lenovo, ZTE Corporation, Apple, Huawei, HiSilicon, CATT, vivo, CMCC, NTT DOCOMO, Samsung, LG Electronics, Xiaomi, InterDigital discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: For Option B for BM Case 1/2, one set or multiple sets of inference related parameters can be configured in OtherConfig, where each set in OtherConfig contains the following parameters indicated in RAN1 reply LS (R1-2410898) as baseline:

* + - One or more associated ID(s).
    - Set A related information.
    - Set B related information.
    - Time instances related information for prediction (For BM Case 2 only).

FFS the parameter details for Set A/Set B.

FFS whether associated ID is mandatory or optional.

*Other details of Option B parameters (if time allows)*

[R2-2502108](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502108.zip) Further Discussion on LCM for UE-side Model for AI-BM MediaTek Inc. discussion

Proposal 2: Each set of inference parameters is identified by an index.

[R2-2502124](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502124.zip) Remaining issues on LCM procedure of UE-sided model for AI/ML based beam management Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: To avoid ambiguity of applicability reporting between Option A and B, introduce CSI-ReportConfigId under the set of inference related parameters as identifier of the set.

Proposal 10: RAN2 confirm that option A and option B can be configured in the same RRCReconfiguration message with the unified applicability report procedure. And a separate UE capability is introduced for option B to allow more flexibility.

**Applicability reporting**

*Cause of non-applicability*

[R2-2501921](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501921.zip) Discussion on applicability reporting for BM use case CATT discussion Rel-19 NR\_AIML\_air-Core

Proposal 7: No explicit cause is reported along with the non-applicable functionality reporting.

[R2-2501940](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501940.zip) Unified Signaling Structure and Further consideration on applicability reporting Xiaomi discussion Rel-19 NR\_AIML\_air-Core

Proposal 6: Together with inapplicability reporting, UE further indicates cause value of inapplicability, i.e., 1) not applicable to NW-side additional condition, 2) not applicable to UE-side additional condition and/or 3) model is not available in device.

*Inference configuration handling upon non-applicability*

[R2-2501784](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501784.zip) LCM for UE-sided model for Beam Management use case OPPO discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: Upon receiving one or more full inference configuration(s) via RRCReconfiguration message, UE shall maintain all the full inference configuration(s) no matter the full inference configuration is applicable or inapplicable until the network releases it explicitly.

Proposal 3: Upon receiving one or more full inference configuration(s) via RRCReconfiguration message, UE shall not activate the periodic CSI reporting for an inapplicable full inference configuration.

[R2-2502902](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502902.zip) LCM for UE-side models for beam management Ericsson discussion

Proposal 6: If the UE reports a periodic CSI report configuration (i.e. full inference configuration in CSI-ReportConfig) as non-applicable in the initial applicability report, the UE releases the configuration.

*Prohibit timer for applicability reporting*

[R2-2502411](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502411.zip) Continuous Discussion On LCM for UE-sided model ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: The UE can be configured with a prohibit timer. This timer starts once the UE initiates applicability reporting for a specific functionality either via the UAI or RRCReconfigurationComplete. Before the prohibit timer expires, the UE will refrain from initiating another UAI to report applicability for the same functionality. Reporting of inapplicability is not restricted by this prohibit timer.

[R2-2502599](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502599.zip) Discussion on LCM for UE-sided model for Beam Management use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 13: The NW can configure different values of the prohibit timer for “applicable to non-applicable” update and “non-applicable to applicable” update to be applied for functionalities that are not currently configured for inference operation. If a functionality that is currently configured for inference operation becomes non-applicable, the UE should immediately report the status change.

*Contents of applicability report (if time allows)*

[R2-2502636](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502636.zip) On LCM for UE-sided Model for Beam Management Use Case SHARP Corporation discussion

Proposal 11: The UE may indicate preferred configuration (s) to the network (e.g., preferred CSI-ReportConfig) in step 4.

[R2-2502366](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502366.zip) Left issues related to applicability report for AIML based BM Lenovo discussion Rel-19

Proposal 6: In the applicability report, cell information is needed to unambiguously identify CSI report configurations for prediction.

**Data collection (if time allows)**

*Remaining details on data collection request*

[R2-2502124](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502124.zip) Remaining issues on LCM procedure of UE-sided model for AI/ML based beam management Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: The UE request signaling for data collection of AI/ML based beam management may include:

• The indication on start/stop of data collection

• Preferred configuration from a list of candidate configurations provided by NW, where each candidate configuration includes at least CSI resource set A/B and associated ID. Its details are up to RAN1.

Proposal 2: Introduce UAI message for UE request of data collection configuration. And it is up to UE implementation when to send the request.

[R2-2502599](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502599.zip) Discussion on LCM for UE-sided model for Beam Management use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 15: RAN2 to agree that the UE just indicates a simple request to NW if it needs data collection configurations, and UE capability reporting is left to RAN1.

*UE behaviour when it cannot fulfil data collection request*

[R2-2502729](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502729.zip) Discussion on LCM for UE-sided model for BM CMCC discussion Rel-19 NR\_AIML\_air-Core

Proposal 4: When the UE can’t perform data collection for model training based on received configuration, other UE behaviors in connected mode should not be affected.

Proposal 5: An indication is introduced in RRCReconfigurationComplete message when UE can’t perform data collection based on received configuration.

[R2-2502124](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502124.zip) Remaining issues on LCM procedure of UE-sided model for AI/ML based beam management Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: As the UE may send data collection request via UAI based on its implementation, no need to introduce a separate indication signaling when UE can’t perform data collection based on received configuration.

*Prohibit timer for data collection configuration request*

[R2-2502263](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502263.zip) LCM for UE-sided Model for BM Google discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: For data collection configuration with UE request, a prohibit timer is introduced to prevent the UE from immediately re-initiating a data collection request.

**Performance monitoring (if time allows)**

[R2-2502024](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502024.zip) Discussion on LCM for UE-sided Model for Beam Management Use Case Fujitsu discussion Rel-19 NR\_AIML\_air-Core

Proposal 5 RAN2 starts at least the following discussions while waiting for further RAN1 input.

 Mechanism to trigger the performance monitoring procedure.

 Potential signaling to complete the performance monitoring procedure.

Not treated

[R2-2502020](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502020.zip) LCM for UE-sided model for BM LG Electronics discussion Rel-19 NR\_AIML\_air-Core

[R2-2502115](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502115.zip) Discussion on LCM for UE-sided model for beam management Samsung discussion Rel-19 NR\_AIML\_air-Core

[R2-2502239](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502239.zip) Further consideration on LCM for UE-sided model for BM use case China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2502280](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502280.zip) Discussion on signalling procedure of supporting applicability report Option B NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2502290](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502290.zip) On LCM for UE-sided Models for Beam Management Qualcomm Incorporated discussion Rel-19

[R2-2502421](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502421.zip) Discussion on UE-sided model LCM for BM Transsion Holdings discussion Rel-19

[R2-2502434](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502434.zip) Discussion on LCM for UE-sided model for Beam Management Spreadtrum, UNISOC discussion Rel-19

[R2-2502483](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502483.zip) Some aspects for model monitoring on UE side Sony discussion Rel-19 NR\_AIML\_air-Core

[R2-2502590](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502590.zip) Discussion on LCM for UE-Side Model for Beam Management Futurewei Technologies discussion Rel-19

[R2-2502772](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502772.zip) LCM for UE-sided Model for Beam Management Use Case SHARP Corporation discussion [R2-2502636](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502636.zip)

[R2-2502637](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502637.zip) LCM for UE-sided model for Beam Management use case InterDigital discussion Rel-19 NR\_AIML\_air-Core

[R2-2502816](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502816.zip) Discussion on LCM for UE-sided models ASUSTeK discussion Rel-19 NR\_AIML\_air-Core

[R2-2502854](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502854.zip) Remaining Issues on LCM for UE-sided model in Beam Management use case Kyocera discussion

#### 8.1.2.3 LCM for Positioning use case

Contributions should focus on LCM for UE-sided model, but can discuss NW-sided model. Aspects related to data collection should be covered in 8.1.3

**LMF control on applicability reporting**

[R2-2502137](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502137.zip) Discussion on LCM for POS use case Samsung discussion Rel-19 NR\_AIML\_air-Core

Proposal. 2: UE reports the applicable functionality to the LMF by the LPP provide capabilities message without any additional LMF control.

[R2-2502367](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502367.zip) LCM for AIML based positioning with UE-sided model Lenovo discussion Rel-19

Proposal 2: If any mechanism is needed to avoid UE reporting “applicability” right after “inapplicability” has been reported for the same AIML based positioning, a prohibit timer based approach can be considered.

**Fallback/switching from AIML to non-AIML**

[R2-2502758](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502758.zip) Discussion on UE autonomous switching between AI/ML and non-AI/ML methods LG Electronics Inc. discussion Rel-19

Proposal 2: UE autonomous switching between AI/ML and non-AI/ML methods should be supported.

Proposal 3: Options/configurations for UE autonomous switching can be configured in RequestLocationInformation message e.g., LocationInformationType.

Proposal 4: Four options can be utilized in LocationInformationType for UE autonomous switching.

* + - Option 1: Switching AI/ML-based calculation to legacy UE-based calculation using same measurement, e.g., switch AI/ML-based DL TDoA to legacy DL TDoA
    - Option 2: Switching AI/ML-based method to legacy method, e.g., switch AI/ML-based DL TDoA to legacy DL AoD:
    - Option 3: Switching AI/ML-based UE-based method to legacy UE-assisted method, e.g., switch AI/ML-based UE-based DL TDoA to legacy UE-assisted DL TDoA)
    - Option 4: Switching AI/ML-based UE-based method to AI/ML-based UE-assisted method, e.g., switch AI/ML positioning Case 1 to AI/ML positioning Case 2b

[R2-2502617](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502617.zip) LCM for positioning use case Qualcomm Incorporated discussion

Proposal 1: UE autonomous switching/fallback between AI/ML and non-AI/ML methods is not allowed.

Proposal 2: Switching/fallback to non-AI/ML positioning can be supported by including multiple positioning methods in a LPP Request Location Information message. No additional specification work is foreseen specifically for supporting "switching/fallback operation".

**Other details (if time allows)**

Functionality management

[R2-2501808](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501808.zip) Discussion on remaining issues of AI/ML enhanced positioning vivo discussion NR\_AIML\_air-Core

Proposal 5: LMF is responsible for functionality management based on performance monitoring results calculated by target UE or LMF.

(De)activation of inference configuration

[R2-2502638](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502638.zip) LCM for Positioning use case InterDigital discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: An AIML positioning functionality is considered “actived” once UE receives an LPP RequestLocationInformation from the LMF requesting inferred location information.

Proposal 3: LMF is expected to deactivate activated functionality when it receives non-applicability indication from UE (i.e., UE doesn’t autonomously deactivate).

[R2-2501941](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501941.zip) Discussion on the LCM for AI positioning case 1 Xiaomi discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: For triggered reporting, AI/ML positioning case 1 is deactivated autonomously after providing inference results in ProvideLocationInformation. For periodical reporting, LMF/UE deactivates AI/ML positioning case 1 via Abort message.

Not Treated

[R2-2501787](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501787.zip) LCM for Positioning use case OPPO discussion Rel-19 NR\_AIML\_air-Core

[R2-2501827](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501827.zip) Discussion on LCM for Positioning Use Case HONOR discussion Rel-19 NR\_AIML\_air-Core

[R2-2501856](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501856.zip) LCM for Positioning use case NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2501922](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501922.zip) Issues to address for AIML Positioning stage-2 CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2502025](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502025.zip) Discussion on LCM for Positioning Use Case Fujitsu discussion Rel-19 NR\_AIML\_air-Core

[R2-2502084](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502084.zip) Discussion on LCM for positioning use case ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[R2-2502125](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502125.zip) Remaining issues on LCM procedure of AI/ML based positioning Apple discussion Rel-19 NR\_AIML\_air-Core

[R2-2502240](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502240.zip) Performance monitoring for positioning use case China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2502443](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502443.zip) Association of measurements and ground truth labels for positioning use-cases Fraunhofer IIS, Fraunhofer HHI discussion [R2-2500174](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500174.zip)

[R2-2502639](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502639.zip) Reporting of applicability and inference configurations Nokia discussion Rel-19 NR\_AIML\_air-Core

[R2-2502662](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502662.zip) LCM For Positioning Ericsson discussion Rel-19

[R2-2502697](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502697.zip) Discussion on LCM for positioning CMCC discussion Rel-19 NR\_AIML\_air-Core

[R2-2502795](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502795.zip) Discussion on LCM for Positioning use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

[R2-2502802](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502802.zip) Discussion on Functionality-based LCM for Positioning Use Case CEWiT discussion

8.1.3 NW side data collection

*Contributions should focus on the mechanisms and principles identified for data collection for network side model training during rel-18. Contributions should discusss type of data required to be collected for NW sided model and UE sided model (common to NW sided and different). Question to RAN1 should also be identified.*

**Handling during mobility/state transition:**

[R2-2502126](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502126.zip) Remaining issues on NW-sided data collection Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 10: On the issue of how to handle logged data in HO/IDLE/INACTIVE/RLF, RAN2 down select between the following 2 solutions:

* Solution 1: Introduce area scope similar to logged MDT (applicable to HO/RLF/INACTIVE/IDLE)
  + Area scope (i.e. PCI list) is configured in data collection configuration similar to logged MDT. It is up to NW implementation to configure area scope with vendor/PLMN info being considered.
  + The UE releases the un-retrieved data when moving out of the configured area.
* Solution 2: Introduce indication in HO/Resume/Reestablishment (applicable to HO/RLF/INACTIVE)
  + Introduce 1-bit indication on whether to release or retain un-retrieved data in RRCReconfiguration (HO command) / RRCResume / RRCReestablishment message.
  + Source cell determines whether target cell share the same PLMN/vendor based on its implementation without spec change on inter-node message (e.g. based on OAM).

[R2-2502114](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502114.zip) Disuccsion on NW side data collection Samsung discussion Rel-19 NR\_AIML\_air-Core

Proposal 8. Upon going to RRC\_IDLE or RRC\_INACTIVE, UE discards any logged data

Proposal 9. In case of RLF, the new gNB indicates UE whether UE should retain or discard logged data via RRCReestablishment message. If UE is indicated to retain and has any logged data, UE can send availability via RRCReestablishmentComplete message.

[R2-2501933](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501933.zip) Discussion on NW side data collection Xiaomi discussion

Proposal 8: NW can configure UE whether to keep the logged data upon RLF, as part of the data collection configuration.

Proposal 9: NW can configure UE whether to keep logged data upon leaving RRC\_CONNECTED in RRCRelease.

Proposal 10: If NW didn’t configure UE to keep the data, UE releases the logged data upon RLF and leaving RRC\_CONNECTED.

**Availability indciation (Triggering):**

[R2-2502730](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502730.zip) Discussion on NW side data collection CMCC discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: The data availability indication can be reported to the network after the buffer is full.

[R2-2502414](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502414.zip) Further Discussion on NW Side Data Collection ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[Proposal 7: A threshold can be configured to the UE for triggering the data availability report before the AS buffer becoming full. FFS: percentage threshold, or remaining buffer size threshold.](#_Toc194053041)

[R2-2501933](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501933.zip) Discussion on NW side data collection Xiaomi discussion

Proposal 2: UE triggers data availability indication upon 1) network requests, 2) reporting low power bit indication.

**Availability indciation (Content):**

[R2-2501809](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501809.zip) Discussion on NW side data collection vivo discussion NR\_AIML\_air-Core

Proposal 5: A single bit indication would be sufficient for UE to indicate to NW that UE has available logged data. No additional information, e.g., logged data size, is needed

[R2-2502369](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502369.zip) Data collection for NW-sided model training Lenovo discussion Rel-19

Proposal 6: UE can optionally indicate data size information together with the data availability indication for gNB to fetch the logged data efficiently.

[R2-2502465](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502465.zip) Discussion on NW-sided data collection for training Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 4: The UE should include the corresponding configuration identifier in the data available indication to avoid NW requests unavailable data or support NW to request a certain data collected by UE.

[R2-2502264](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502264.zip) Data Collection for NW-sided Model Training for BM Google discussion Rel-19 NR\_AIML\_air-Core

Proposal 5: The UE includes a cause indication (e.g., event not triggered, event triggered infrequently, low memory, low power state, overheating, or mobility) for the CSI resources with no or insufficient logged data.

**Availability indciation (Signaling):**

[R2-2502004](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502004.zip) Discussion on NW-side data collection NEC discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: Data availability indication can be carried in UAI and RRC complete message.

[R2-2501785](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501785.zip) NW side data collection OPPO discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: RRCSetupComplete/RRCResumeComplete message can be used to carry availability indication.

Proposal 11: RRCReestablishmentComplete message can be used to carry availability indication.

[R2-2502904](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502904.zip) NW-side data collection for beam management and positioning Ericsson discussion

Proposal 13: The indications for data availability, low power, and buffer full are reported independently of each other.

**Data collection configuration (single vs mulitple):**

[R2-2502109](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502109.zip) Further Discussion on Network-Side Data Collection MediaTek Inc. discussion

Proposal 1:The UE maintains only one logged measurement configuration for data collection for network-side model training. When the network provides a new logged measurement configuration, it completely replaces any previously configured logged measurement configuration.

[R2-2502465](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502465.zip) Discussion on NW-sided data collection for training Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 11: The NW can configure one data collection configuration per use case, i.e. multiple configurations for the same use case are not supported.

[R2-2502026](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502026.zip) Discussion on NW side Data Collection Fujitsu discussion Rel-19 NR\_AIML\_air-Core

Proposal 1 For the measurement configuration of AI/ML data collection, multiple configurations can be supported to allow measurements for multiple Set A/B combinations at UE side.

Proposal 2 Data reporting for different measurement configurations should be separated and indicated so that NW can distinguish collected data for different AI/ML-enabled features/FGs/models.

**Data collection configuration (Framework):**

[R2-2502414](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502414.zip) Further Discussion on NW Side Data Collection ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[Proposal 2: For NW side data collection with data logging for beam management, the RS resources for data collection (e.g. CSI-ResourceConfigId) are configured in a MeasObjectNR, and the data logging related configuration for data collection are configured in the reportConfigNR associated with a MeasId that is linked to the MeasObjectNR.](#_Toc194053031)

[R2-2502594](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502594.zip) Data Collection for Training of network-side ML Models Nokia discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: Legacy CSI-ReportConfig is reused to provide configuration for measurement and logging of CSI-RS for network-side models, i.e., added or modified with csi-ReportConfigToAddModList, and released with csi-ReportConfigToRemoveList.

Proposal 2: The UE shall be able to identify from the CSI-ReportConfig which report configurations are for logging and data collection.

**Content of collected data:**

[R2-2501923](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501923.zip) Consideration on NW side data collection CATT discussion Rel-19 NR\_AIML\_air-Core

Proposal 4: The report of collected training data includes:

* For training data collection time marker, the absoluteTimeStamp could be the absolute time when the training data configuration is received by the UE. And the time of each measurement can be represented as a relative time from the absoluteTimeStamp;
* For training data marker, the associated ID received in the training data configuration may be used;
* For training data collection node, collection node index such as TCE ID for MDT could be used;
* The main content of training data collection could be a list similar as logMeasInfoList, and the detailed content can be revised according to further RAN1 input.

[R2-2502114](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502114.zip) Disuccsion on NW side data collection Samsung discussion Rel-19 NR\_AIML\_air-Core

Proposal 10. No timestamp is reported for logged data.

* For periodic logging, UE uses a common list, in order to log multiple L1-RSRPs per each beam.
* For event-based logging, UE uses different lists to differentiate each event instance, in order to log multiple L1-RSRPs per each beam.

**SRB to be used:**

[R2-2502004](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502004.zip) Discussion on NW-side data collection NEC discussion Rel-19 NR\_AIML\_air-Core

Proposal 6: Consider using SRB2 or a new SRB to transmit UEInformationResponse for AI data collection.

[R2-2502592](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502592.zip) Discussion on Data Collection for NW-side Model Training Futurewei Technologies discussion Rel-19

Proposal 4: SRB4 can be used for data collection for NW-side model training.

[R2-2502021](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502021.zip) NW side data collection LG Electronics discussion Rel-19 NR\_AIML\_air-Core

[R2-2502126](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502126.zip) Remaining issues on NW-sided data collection Apple discussion Rel-19 NR\_AIML\_air-Core

[R2-2502251](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502251.zip) NW side data collection Interdigital Inc. discussion Rel-19 NR\_AIML\_air-Core

[R2-2502291](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502291.zip) On Network Side Data Collection Qualcomm Incorporated discussion Rel-19

[R2-2502368](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502368.zip) Data collection issues related to RAN3 and SA5 Lenovo discussion Rel-19

[R2-2502435](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502435.zip) Discussion on NW side data collection Spreadtrum, UNISOC discussion Rel-19

[R2-2502817](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502817.zip) Discussion on NW-sided data collection ASUSTeK discussion Rel-19 NR\_AIML\_air-Core

[R2-2502832](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502832.zip) Discussion on NW side data collection for positioning TCL discussion

[R2-2502908](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502908.zip) Discussion on NW-Side AI/ML Data Logging Framework Rakuten Mobile, Inc discussion Rel-19

[R2-2502937](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502937.zip) Discussion on NW side data collection aspects Continental Automotive discussion

8.1.4 UE side data collection

*Type of data required to be collected for UE sided model can be discussed in contributions in 8.1.3*

*Discuss any of the aspects identified in RANP WF*

*o Study RAN aspects related to data transfer over UP*

*o Discuss level of NG-RAN involvement in the control and configuration of UE side data collection.*

*o Discuss NG-RAN involvement in the data transfer of UE side data collection (if any) (including visibility discussion).*

*o Discuss aspects/solutions from RAN perspective that enable the data transfer to CN domain or OAM domain.*

*o Discuss on the scalability aspects of CP*

**LS from SA5:**

[R2-2501934](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501934.zip) Discussion on UE side data collection Xiaomi discussion

Proposal 1: Send reply LS to SA5 to indicate current specification doesn’t support UP tunnel between UE and gNB.

[R2-2501786](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501786.zip) UE side data collection OPPO discussion Rel-19 NR\_AIML\_air-Core

Proposal 4: For Option 3 UP solution, the data transfer path is UE ->gNB  
->OAM-> Server for data collection for UE-side model training/OTT server.

Proposal 5: Reply SA5 LS to confirm the understanding in P4.

**UP data transfer:**

[R2-2502127](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502127.zip) Further discussion on UE-side data collection Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 10: On data transfer solution over UP, RAN2 wait SA2 conclusion on whether/how NG-RAN can be aware of AI/ML dataset transfer (e.g. via AI/ML specific QoS flow, or AI/ML specific PDU session, or AI/ML specific protocol stack, etc.) to configure DRB accordingly.

[R2-2502292](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502292.zip) On UE Side Data Collection Qualcomm Incorporated discussion Rel-19

Proposal 6: For user plane-based data transfer, the NG-RAN may perform PDU admission control based on information/parameters configured by 5GC to NG-RAN to achieve controllability requirements for data transfer, as in legacy PDU admission control.

Proposal 7: The legacy RRC and NAS-based procedure can be reused by NG-RAN to achieve controllability requirements for data transfer in the control-plane-based data transfer.

[R2-2502027](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502027.zip) Discussion on Data Collection via UP Tunnel for UE-sided model Fujitsu discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: RAN2 applies lower priority to UE-sided model training data compared to UL traffic of other services over UP tunnel.

Proposal 2: Utilize dedicated UP tunnel to transfer UE-sided model training data, e.g., dedicated PDU session, dedicated QoS Flow, or dedicated DRB.

**CP data transfer (scalability):**

[R2-2502292](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502292.zip) On UE Side Data Collection Qualcomm Incorporated discussion Rel-19

Proposal 11: With more AI/ML-enabled use cases anticipated to be introduced in the future, the control plane-based data collection will not remain futureproof or extendable.

[R2-2502952](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502952.zip) Remaining issues on UE-side data collection Ericsson discussion

Proposal 5: CP based solutions require a heavier update of the NG-RAN both for the configuration of the data to be collected and for the fetching (via CP) of the collected data. Without a capillary update of the NG-RAN nodes, the ability of the UE to perform an efficient UE-side data collection will be limited, as well as the possibility for the network to balance the radio overhead. NG-RAN nodes compliance with beyond Rel.19 AIML use cases need also to be considered.

[R2-2501810](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501810.zip) Discussion on UE side data collection vivo discussion NR\_AIML\_air-Core

Observation 2: The main difference between CP-based solutions of UE side data collection and NW side data collection is only whether the NW will further transfer the training data to the server for data collection for UE-side model training/OTT server.

Proposal 7: The framework/agreement of NW side data collection is reused for CP-based UE side data collection.

Proposal 8: No scalability issue for CP-based UE data collection and data transfer.

**Visibility of collected data:**

[R2-2502796](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502796.zip) Discussion on UE-sided data collection for training Huawei, HiSilicon, OPPO, ZTE, NTT DoCoMo, China Unicom, CMCC, China Telecom, Apple, vivo discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: For option 2 and option 3, RAN2 to only adopt standardized data to implement full visibility, and exclude non-standardized data, i.e. partial/no visibility.

[R2-2502110](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502110.zip) Further Discussion on UE-side Data Collection MediaTek Inc. discussion

Proposal 8: Support non-standardized and partially standardized data content in Solution 2 and Solution 3. Whether the non-standardized data is allowed to be carried is configured by the MNOs.

[R2-2502252](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502252.zip) UE side data collection Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_air\_Ph2

Proposal 1: The format of the data/measurement to be collected will be specified per use case basis. UE vendor-specific/proprietary data can be included in a transparent container along with the standardized data

**Not treated**

[R2-2501857](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501857.zip) Analysis of solutions for UE side model data collection NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2501924](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501924.zip) Consideration on UE side data collection CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2501973](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501973.zip) Discussion on UE-side data collection LG Electronics Inc. discussion Rel-19 NR\_AIML\_air-Core

[R2-2501978](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501978.zip) Performance metrics / KPI’s for UE sided data collection T-Mobile USA Inc. discussion Rel-19 NR\_AIML\_air-Core

[R2-2502370](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502370.zip) UE requests data collection for AI based positioning Lenovo discussion Rel-19

[R2-2502413](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502413.zip) Further Considerations on UE Side Data Collection ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[R2-2502593](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502593.zip) Discussion on Data Collection for UE-side Model Training Futurewei Technologies discussion

[R2-2502595](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502595.zip) Data collection for UE side models Nokia discussion Rel-19 FS\_NR\_AIML\_air\_Ph2

[R2-2502640](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502640.zip) Data collection for positioning case 1 Nokia discussion Rel-19 NR\_AIML\_air-Core

[R2-2502731](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502731.zip) Discussion on UE side data collection CMCC,China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2502752](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502752.zip) On UE request of data collection configuration T-Mobile USA Inc., Nokia discussion Rel-19 FS\_NR\_AIML\_air\_Ph2

[R2-2502818](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502818.zip) Discussion on LCM for UE-sided data collection ASUSTeK discussion Rel-19 NR\_AIML\_air-Core

[R2-2502906](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502906.zip) Further Requirements for UE Side Data Collection Rakuten Mobile, Inc discussion Rel-19

[R2-2502961](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502961.zip) UE side data collection Samsung R&D Institute UK discussion

### 8.1.5 Model transfer/delivery

*Focus on RAN1 LS (R1-2410922) and RAN2 evaluation of feasibility of RAN1 identified solutions on two-sided model.*

*Including outcome of [POST129][029][AI Phy] Model transfer (Xiaomi/Ericsson)*

*For RAN2#129b contributions on requirements for 1-sided and 2-sided models are only expected from operators. . Non-operator companies are not expected to submit contributions (but are encouraged to collaborate with operators). NOTE: the discussion on requirements may be downprioritized.*

**Email Discussion**

[R2-2501939](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501939.zip) Report of [POST129][029][AI Phy] Model transfer (Xiaomi/Ericsson) Xiaomi, Ericsson discussion Rel-19 NR\_AIML\_air-Core

Easy Proposal

Proposal 1 [easy agreeable, phase 2 12/14]: Dataset/model parameter transfer solution from NW to UE training entity shall follow below principles:

* + - A1 - Size: From RAN2 point of view, RAN2 aims to define a unified solution (e.g. OTA, non-OTA, or a combined) to support various sizes of dataset/model parameter transfer (dataset and/or parameter sharing size could range from tens of KBs to hundreds of MBs, but in average around hundreds of MBs);
    - A2 - Continuity: Service continuity of dataset and/or parameter transfer/delivery during UE mobility needs to be supported;
    - A3 - Controllability: NW decides on if and when to transfer/delivery the dataset and/or model parameter from NW to UE or UE training entity (a server inside MNO or an OTT server);
    - A4 - Latency: Relaxed latency requirement and infrequent update;
    - A5 - Visibility: dataset and model parameter to be understandable by UE/UE-side training entity (a server inside MNO or an OTT server).
    - A6: Proprietary information of the network should be respected and not disclosed.

Proposal 2 [phase 2 10/14]: RAN2 to conclude following approaches for dataset/model parameter transfer Direction A:

|  |  |  |
| --- | --- | --- |
| **Alternative 1 (non-OTA approach):**  **gNB** -> **NW dataset/model parameters collection entity** -> **UE training entity** (a server inside MNO or an OTT server)   |  | | --- | | base station, cell tower, communication, connection, network, tower cloud, database, hosting, server cloud, server, web  data  **RAN2 analyzed area**  dataset/model parameter transfer  CSI compression data collection at gNB  NW-side dataset/model parameters collection entity (gNB/CN/OAM) for two-sided UE-part model training  UE-side training entity for two-sided UE part model training |   **Alternative 2 (OTA approach):**  **gNB** -> **NW dataset/model parameters collection entity** (if needed) **-> gNB -> UE** -> **UE training entity** (a server inside MNO or an OTT server)   |  | | --- | | cloud, server, web iphone 14, iphone, mobile, smartphone, device, app, pro base station, cell tower, communication, connection, network, tower cloud, database, hosting, server  **RAN2 analyzed area**  UE-side training entity for two-sided UE part model training  dataset/model parameter for training  dataset/model parameter transfer  CSI compression data collection at gNB  NW-side dataset/model parameters collection entity (gNB/CN/OAM) for two-sided UE-part model training  data |   **NOTE: The data transfer (e.g. raw data, dataset and/or model parameter, etc, up to RAN1 further details on what to transfer) between gNB and NW dataset/model parameters collection entity (OAM/CN) in Alternative 1/2, if needed, is up to RAN3/SA2/SA5.** |

Proposal 3 [phase 2 10/14]: For non-OTA solutions ‘NW dataset/model parameters collection entity -> UE training entity (a server inside MNO or an OTT server)’, RAN2 identified the following candidates and did not identify any showstopper from RAN2 point of view. Feasibility analysis of non-OTA solutions is required to be evaluated by RAN3, SA2, and SA5. It does not preclude RAN3/SA2/SA5 to identify other candidate solutions beyond options listed below.

|  |  |  |
| --- | --- | --- |
| **Option** | **Impacted WG** | **Specification impact/Implementation impact** |
| 1. OAM -> UE-side training entity (a server inside MNO or an OTT server), where OAM is NW-side dataset/model parameter collection entity | SA5 | Up to SA5  (any intermediate node, if any, between OAM and UE-side OTT server is up to SA5; CN involvement if needed is up to SA2/SA5 discussion) |
| 1. CN -> UE-side training entity (a server inside MNO or an OTT server), where CN is NW-side dataset/model parameter collection entity | SA2 | Up to SA2  (any intermediate node, if any, between CN and UE-side OTT server is up to SA2) |
| 1. gNB -> OAM/CN -> UE-side training entity (a server inside MNO or an OTT server), where gNB is NW-side dataset/model parameter collection entity | RAN3, SA2, SA5 | Up to RAN3, SA2, SA5  (any intermediate node, if any, between gNB/OAM, OAM/UE-side OTT server, CN/UE-side OTT server is up to RAN3/SA2/SA5) |

Proposal 4 [easy agreeable, phase 1 14/14]: From RAN2 point of view, when gNB is the NW dataset/model parameter collection entity, solution 1b (i.e. gNB -> UE via UP) is not considered as a candidate solution in 5GA.

Proposal 7 [easy agreeable, phase 1 13/14]: In OTA approach, UE transfers the received dataset/model parameter to UE training entity (an OTT server) transparently to 3GPP network.

To be discussed

Proposal 5: For OTA solutions ‘gNB -> NW dataset/model parameters collection entity (if needed) -> gNB -> UE -> UE training entity (a server inside MNO or an OTT server)’, RAN2 identified following candidate solutions but there’s no consensus on feasibility:

* + - OTA solution 1a: gNB -> UE via CP (8 feasible, 7 not feasible)
    - OTA solution 2: CN -> UE via gNB (7 feasible, 10 not feasible)
    - OTA solution 3: OAM -> UE via gNB (8 feasible, 2 feasible but not benefit, 8 not feasible)

Proposal 6 (to be discussed online): RAN2 to conclude following challenges and potential suitable scenario for OTA solutions:

|  |  |  |
| --- | --- | --- |
| OTA Solution 1a | Challenges | * Not feasible to have RRC buffer >200Mbyte for UE in 5G * Significant specification impact:   + Other segmentation beyond RRC layer requires a new SRB protocol stack to perform segmentation, including functions such as handling segmentation, retransmission, etc   + UE selection * Challenges to support E2E reliability, considering dataset/model parameter transfer is shared by different gNB/vendors during UE mobility and different RRC state transition * Uu overhead for data collection from UE and dataset/model parameter transfer to UE * Overloading CP with large datasets would disrupt core control message transmission (e.g. service degradation, reliability, etc) |
| Potential suitable scenario | * Small dataset/model parameter size. However, the maximum RRC segment needs to be further studied * Split large dataset/model parameter into small pieces, and potentially send to multiple UEs, then gather by UE training entity. RAN2 has not study the feasibility of split dataset/model parameter to multiple UEs. |
| OTA Solution 2 | Challenges | * Same challenges as OTA solution 1a, if OTA solution 2 via CP * No benefit over non-OTA solution, as dataset/model parameter needs to transmit to CN, then transmit back to gNB. Relaying dataset/model parameter via gNB to UE then back to UE training entity is not desireable. * Unclear how to guarantee E2E reliability across multiple hops * A risk of proprietary information exposure if gNB and CN are not from the same NW vendor |
| Potential suitable scenario | * Feasibility analysis of OTA solution 2 via CP is the same as OTA solution 1a. * OTA solution 2 and its feasibility is required to be evaluated by RAN3 and SA2. |
| OTA Solution 3 | Challenges | * Same challenges as OTA solution 1a, if OTA solution 2 via CP * No benefit over non-OTA solution, as dataset/model parameter needs to transmit to OAM, then transmit back to gNB. * Unclear how to guarantee E2E reliability across multiple hops * A risk of proprietary information exposure that OAM may share to a second NW vendor |
| Potential suitable scenario | * Feasibility analysis of OTA solution 3 via CP is the same as OTA solution 1a. * OTA solution 3 and its feasibility is required to be evaluated by RAN3 and SA5. |

Proposal 8: RAN2 reply RAN1 LS based on based on outcome of Proposal 2/3/5/6 and to RAN3, SA2 and SA5 for further action on feasibility analysis of non-OTA solution and OTA solution 2 and 3.

[R2-2501942](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501942.zip) [Draft] Reply LS on signalling feasibility of dataset and parameter sharing Xiaomi, Ericsson LS out Rel-19 NR\_AIML\_air-Core To:RAN1, RAN3, SA2, SA5

**Requirements (if time allows)**

[R2-2502732](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502732.zip) Discussion on AIML model transfer delivery CMCC,China Telecom,CATT,ZTE,Apple,Samsung discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: There is no requirements on controllability or visibility for UE-sided model transfer/delivery case y, since the model trained in OTT server can be sent to the UE directly from OTT-server (transparent to 3GPP).

Proposal 2: It is proposed to de-prioritize case z1 for one-sided model transfer/delivery, since there is no strong requirement on visibility and controllability for UE-sided model transfer/delivery from the perspective of operator.

Proposal 3: It is proposed to follow case y for UE-sided model transfer/delivery in R19, i.e. the UE-sided model is delivered over the top, which is transparent to 3GPP.

[R2-2502926](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502926.zip) Discussion on model transfer/delivery NTT DOCOMO, INC. discussion Rel-19

Proposal 1: For Case y, the scenario is out of scope, and RAN2 doesn’t have to discuss this case.

Proposal 2: For Case z1, there are following requirements.

* + - The model is in proprietary format and MNO cannot comprehend it (e.g., model structure, model contents).
    - MNO can be aware of the model.
    - MNO can control the procedure of model transfer (i.e., start/stop to transfer the model).

Proposal 3: For the case that NW transfers model (or model parameters) to UE-side model training entity directly, there are following requirements.

* + - NW and UE-side model training entity should have common understanding about the model (or model parameters).

Proposal 4: For the case that NW transfers model (or model parameters) to UE-side model training entity via UE with OTA, there are following requirements.

* + - NW, UE and UE-side model training entity should have common understanding about the model (or model parameters).
    - The model (or model parameters) should be transferred in open format.

Proposal 5: For the case that NW transfers the dataset to UE-side model training entity directly or via UE with OTA, there are following requirements.

* + - User consent is needed to transfer the dataset to outside MNO from privacy and legal perspective.

**Not treated**

[R2-2501811](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501811.zip) Discussion on signaling feasibility of OTA solutions vivo discussion NR\_AIML\_air-Core

[R2-2501858](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501858.zip) Signalling feasibility of dataset and parameter sharing NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2501925](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501925.zip) Signalling feasibility of AIML model transfer CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2502111](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502111.zip) Feasibility Analysis on the Alternatives for Two-sided Model MediaTek Inc. discussion

[R2-2502128](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502128.zip) Further discussion on parameters/model transfer in two-sided model Apple discussion Rel-19 NR\_AIML\_air-Core

[R2-2502293](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502293.zip) Discussion on Dataset and Parameter Sharing from the Network to the UE for Two-Sided Model Training Qualcomm Incorporated discussion Rel-19

[R2-2502412](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502412.zip) On Model parameter and Data Set Sharing For Two-side Model ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[R2-2502797](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502797.zip) Discussion on signalling feasibility of dataset and parameter sharing for CSI compression Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

[R2-2502953](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502953.zip) On signalling feasibility of dataset and parameter sharing Ericsson discussion

[R2-2502959](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502959.zip) Outstanding issues on signalling feasibility of dataset and parameter sharing for CSI compression Samsung R&D Institute UK discussion

## 8.2 Ambient IoT

(Ambient\_IoT\_solutions, leading WG: RAN1; REL-19; WID: RP-243326)

Time budget: 2.5 TU

Tdoc Limitation: 3 tdocs

### 8.2.1 Organizational

LS, Rapporteur input, including workplan, etc.

[R2-2502258](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502258.zip) Skeleton of A-IoT MAC specification (TS 38.391) Huawei, HiSilicon draft TS Rel-19 38.391 0.0.1 Ambient\_IoT\_Solutions

[R2-2502259](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502259.zip) Initial Text Proposal for A-IoT MAC specification Huawei, HiSilicon pCR Rel-19 38.391 0.0.1 Ambient\_IoT\_Solutions

[R2-2502704](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502704.zip) Introduction of Ambient IoT CMCC draftCR Rel-19 38.300 18.5.0 B Ambient\_IoT\_Solutions

[R2-2502262](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502262.zip) Illustrative figures for a deeper understanding of A-IoT MAC operations Huawei, HiSilicon, China Southern Power Grid discussion Rel-19 Ambient\_IoT\_Solutions

### 8.2.2 A-IoT Paging

Contributions should focus on paging message content and format, including subsequent paging for the same service, paging identifier details,temporary device ID (if any RAN2 impact), etc.

Including outcome of [POST129][035][AIoT] Paging (Qualcomm)

**Related to email discussion**

**Behavior for Parallel service requests**

[R2-2502211](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502211.zip) Email discussion report: [POST129][035][AIoT] Paging Qualcomm Incorporated discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 1: Discuss and agree on the device behavior if it gets a new service request while one procedure is still ongoing (i.e. not completed or failed yet): (a) ignore all new requests and R2D messages addressed to itself but not associated with the ongoing procedure, or (b) terminate the ongoing procedure and respond to the latest request. (a/b/ffs = 17/8/4)

**Reader ID**

Proposal 6: Discuss and decide whether Reader ID information should be provided to the device (yes/no/FFS = 11/17/1).

[R2-2501962](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501962.zip) Discussion on A-IOT paging procedure Xiaomi discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1: RAN2 confirm that Implementation based coordination among readers is sufficient. The device does not need to distinguish whether a Msg is from same or different reader. The reader ID is not included in R2D Msg.

**Transaction ID for multiple-reader scenario**

Proposal 4: Discuss and decide whether the device needs to distinguish and behave differently between when the same service request is received again from the same reader vs a different reader (yes/no/ffs = 14/12/2).

Proposal 5: Discuss and decide whether RAN2 needs to consider the case where the device has already successfully responded to the same service request but now received the same request from a different reader e.g. for location use case (yes/no/unclear = 9/16/3).

[R2-2502206](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502206.zip) Open issues for A-IoT paging ZTE Corporation, Sanechips discussion

Proposal 3: RAN2 should discuss which alternative in below can be a baseline assumption for addressing these cases:

 Alt1: to make Paging messages from different readers but triggered by the same CN AIoT service contain the same transaction ID

 Alt2: to make Paging messages from different readers but triggered by the same CN AIoT service contain different transaction ID

[R2-2502554](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502554.zip) Paging Aspects for Ambient IOT InterDigital discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 9: RAN2 discuss the following options for the design of the transaction ID: 1) Portion of transaction ID identifies the reader while the other portion is derived from the correlation ID; 2) Entire transaction ID is generated from the correlation ID

Proposal 10: If RAN2 cannot decide on the above, RAN2 sends LS to SA2 to ask whether different correlation IDs can be used for the same service request.

**Calculation of transaction ID**

Proposal 7: Wait for SA2/RAN3 progress before further discussing on how the reader calculates transaction ID.

Proposal 8: Discuss whether to send an LS: To SA2 asking whether correlation ID is expected to be same or different when the same service is requested from different readers, and to RAN3 asking whether coordination between readers is expected.

**Transaction ID Size**

[R2-2502186](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502186.zip) Discussion on Ambient IoT Paging Apple discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 4 4-6 bit “Transaction ID” is used for Paging message.

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**Need for Transaction ID in CFRA**

[R2-2501828](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501828.zip) Discussion on A-IoT paging HONOR discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 8: The transaction ID in the paging message can be optional for the CFRA.

**R2D Trigger Message (Way 1 vs Way 2)**

[R2-2502705](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502705.zip) Discussion on A-IoT paging CMCC discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 15: A new R2D message other than the paging message (Way1-1) is introduced for A-IoT device determining MSG1 resources unless RAN1 concludes to use L1 signaling.

[R2-2502607](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502607.zip) Ambient IoT Paging Qualcomm Incorporated discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 3: After the initial paging, for the R2D transmission which determines the Msg1 resource(s), adopt Way-2 from the RAN2#129 way forward (i.e. reuse the same paging message, using field(s) to indicate it is only to determine the Msg1 resource(s) and omitting the paging identifier (device ID/group ID) field).

**Implicit or Explicit Signaling for CFRA/CBRA**

[R2-2502765](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502765.zip) Discussion on DL messages for Ambient IoT UEs Ericsson discussion Rel-19 FS\_Ambient\_IoT\_solutions

=> Revised in [R2-2502989](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502989.zip)

[R2-2502989](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502989.zip) Discussion on DL messages for Ambient IoT UEs Ericsson discussion Rel-19 FS\_Ambient\_IoT\_solutions

Proposal 9 There is no need to indicate explicitly whether a device should respond to the paging message with contention free or contention-based RA.

**How to specify implicit**

[R2-2502873](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502873.zip) Paging aspects of AIoT Nokia discussion Rel-19

Proposal 10: To simplify signaling, RAN2 to agrees that

- an AIoT paging of a single-device implies “Contention-free access” i.e. the gNB assigns the resources for the single device,

- an AIoT paging of a device group or all devices implies “Contention-based random access”, since this may be an unknown set of devices, and

- an AIoT paging of multiple device IDs (if supported) implies “Contention-free access”

[R2-2502268](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502268.zip) A-IoT paging Huawei, HiSilicon discussion Rel-19

Proposal 5: Whether the random access is contention-based or contention-free can be implicitly indicated by the number of access occasion(s), e.g., one access occasion for one/each device ID implies contention-free access, i.e., there is no need for a dedicated explicit indication of the access type.

**Paging Identifier Length**

[R2-2502215](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502215.zip) Further discussions on A-IoT paging Futurewei discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 4. An ID length field is always included together with the paging ID field in the A-IoT paging message, except the case where no ID is included in the A-IoT paging message.

[R2-2502268](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502268.zip) A-IoT paging Huawei, HiSilicon discussion Rel-19

Proposal 4a: In an A-IoT paging message, there is no need of a length field for the paging identifier field. This is based on the assumption that there is no MAC padding in the paging message, and the paging identifier field will be placed at the end of the paging message.

Proposal 4b: If Proposal 4a is not agreed, RAN2 asks SA2/CT1/CT4 for the size of paging identifier (e.g., permanent ID, temporary ID, mask/filter/group ID).

**Forward Compatibility for Multiple Paging IDs in Paging message**

[R2-2502186](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502186.zip) Discussion on Ambient IoT Paging Apple discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 5 RAN2 to clarify the meaning of “forward-compatibility”: whether there will be a single common Paging message for both Rel-19 and Rel-20 or two different paging message formats in the respective release.

[R2-2501788](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501788.zip) Discussion on ambient IoT paging LG Electronics Inc. discussion Rel-19

Proposal 2: To ensure forward compatibility with scenarios where multiple paging identifiers can be contained in a single paging message, A-IoT paging message should include a reserved field to accommodate multiple paging identifiers.

[R2-2502819](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502819.zip) Discussion on Ambient IoT paging message design ASUSTeK discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 2: To support multiple IDs in a paging message for forward compatibility, a paging message includes a field to indicate the number of IDs.

**Association of Device ID and reader ID**

[R2-2501812](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501812.zip) Discussion on AIoT Paging vivo discussion FS\_Ambient\_IoT\_solutions

Proposal 1. The reader needs to know the association between the assigned AS ID and the upcoming command request towards a specific device, where the reader being informed of the paging identifier does not solve the issue.

Proposal 2. RAN2 to send LS to inform SA2 and RAN3 about the requirement at the reader to associate between the assigned AS ID and the upcoming command request toward a specific device. Wait for their solution(s) on such issue.

[R2-2501788](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501788.zip) Discussion on ambient IoT paging LG Electronics Inc. discussion Rel-19

[R2-2501846](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501846.zip) Discussion on Paging for Ambient IoT CATT discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502022](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502022.zip) Discussion on A-IoT paging message format Tejas Network Limited discussion Rel-19

[R2-2502028](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502028.zip) Discussions on AIoT paging Fujitsu discussion Rel-19 FS\_Ambient\_IoT\_solutions

[R2-2502040](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502040.zip) Discussion on paging procedure for Ambient IoT OPPO discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502220](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502220.zip) Discussion on A-IoT Paging ETRI discussion

[R2-2502286](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502286.zip) Ambient-IoT Paging NEC discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502345](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502345.zip) Discussion on paging procedure for Ambient IoT Lenovo discussion Rel-19

[R2-2502375](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502375.zip) Discussion on A-IoT paging Panasonic discussion Rel-19

[R2-2502422](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502422.zip) Discussion on Paging for A-IoT Transsion Holdings discussion Rel-19

[R2-2502429](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502429.zip) Discussion on paging procedure of A-IoT Spreadtrum, UNISOC discussion Rel-19

[R2-2502484](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502484.zip) Considerations on paging for Ambient IoT Sony discussion Rel-19 FS\_Ambient\_IoT\_solutions

[R2-2502499](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502499.zip) Multiple Paging involving reader(s) and service(s) Sony discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502745](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502745.zip) Further consideration of A-IoT paging for Ambient IoT Kyocera discussion Rel-19

[R2-2502753](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502753.zip) Discussion on A-IoT paging ITL discussion Rel-19

[R2-2502759](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502759.zip) Discussion on Ambient IoT Paging China Telecom discussion

[R2-2502775](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502775.zip) Discussions on AIoT paging Samsung discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2502874](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502874.zip) Discussion on Ambient IoT Paging CEWiT discussion

[R2-2502938](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502938.zip) AIoT Paging: Handling a New Service Request Philips International B.V. discussion Ambient\_IoT\_Solutions

[R2-2502954](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502954.zip) Discussion on paging procedure for Ambient-IoT III discussion

[R2-2502958](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502958.zip) Discussion on AIoT paging NTT DOCOMO, INC. discussion Rel-19

### 8.2.3 A-IoT Random Access

*Contributions should focus on details of contention-based and contention-free access, including re-access for failure handling, msg content/format, format (Msg1, Msg2, NACK based feedback for re-access, etc.)*

**MSG1 contents for CBRA**

[R2-2502346](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502346.zip) Discussion on random access for Ambient IoT Lenovo discussion Rel-19

Proposal 2: In case of CBRA, only 16 bits random ID is included in Msg1.

**Random ID for MSG1 in CFRA**

[R2-2502207](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502207.zip) Open issues for A-IoT random access ZTE Corporation, Sanechips discussion

Proposal 9: RN16 is included in MSG1 for CFRA

[R2-2502043](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502043.zip) Discussion on random access for A-IoT OPPO discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 10: RN16 is not needed included in the A-IOT Msg1 in the CFRA procedure

**MSG1 Resource Definition**

[R2-2502207](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502207.zip) Open issues for A-IoT random access ZTE Corporation, Sanechips discussion

Proposal 2: In order to establish and maintain a common timing between the reader and the devices that are paged, the reader sends R2D trigger message(s) after the paging message

Proposal 3: Each of these R2D trigger messages trigger the start of a set of MSG1 resources that are distributed in Time/Frequency domain

**Resouce selection for MSG1 in CBRA**

[R2-2502555](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502555.zip) Random Access Procedure for Ambient IOT InterDigital discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1: RAN2 decide between the following for MSG1 resource selection by the device: 1) randomly select among the access occasions indicated in the paging message, then randomly select the resources within that access occasion that are allocated by the “queryRep-like” message 2) randomly select among the total number of MSG1 resources to be provided by each “queryRep-like” message.

**Content and format of MSG2 for CBRA**

[R2-2502585](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502585.zip) Views on Random Access Aspects of Ambient IoT Qualcomm Incorporated discussion Ambient\_IoT\_Solutions-Core

Proposal 8: A-IoT Msg2 may contain one or multiple echoed random ID(s) from A-IoT Msg1 of different A-IoT devices.

[R2-2502964](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502964.zip) Discussion on A-IoT random access Samsung Electronics Czech discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 3: Same Msg2 format is used for initial transmission and retransmission of Msg2.

[R2-2502346](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502346.zip) Discussion on random access for Ambient IoT Lenovo discussion Rel-19

Proposal 4: AIoT Msg2 includes successfully received RN16 and may include Msg1 resource identifier to avoid RN16 collision.

**Determination of MSG3 failure**

[R2-2501963](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2501963.zip) Discussion on access procedure for A-IOT Xiaomi discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 8: RAN2 confirms that Subsequent A-IoT paging is used to trigger the re-access for Msg3 failure. Msg2 transmission is used to trigger the retransmission of Msg 3. NACK is used to determine whether re-access will be triggered. Timer, window are not needed for the device to determine the failure.

**Determination of MSG3 success (Timer, paging reception, R2D reception, command reception)**

[R2-2502749](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502749.zip) Discussion on random access aspects for Ambient IoT LG Electronics Inc. discussion FS\_Ambient\_IoT\_solutions

Proposal 4. Introduce a new timer for NACK feedback reception to determine whether the Msg3 is successfully transmitted or not.

[R2-2502470](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502470.zip) A-IoT random access procedure Huawei, HiSilicon discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 9: There is no need for a timer for reception of “NACK feedback indication”. The device shall consider itself successful by default, if no “NACK feedback indication” is received before subsequent paging.

[R2-2502466](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502466.zip) Discussion on UL multiple access Ericsson discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 3 The device interprets its D2R transmission (e.g., Msg3) is successful if the device has not received NACK signalling until the D2R timer is expired or the beginning of next CBRA occasion whichever occurs first.

[R2-2501980](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501980.zip) A-IoT: ACK/NACK for Msg3 and re-access MediaTek Inc. discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 6: If the device has transmitted Msg3 and receives any R2D data transmission (including zero-length data) without a NACK indication, it interprets it as a positive ACK for Msg3.

**NACK feedback applicability to MSG3/Command**

[R2-2502470](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502470.zip) A-IoT random access procedure Huawei, HiSilicon discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 7: The reader can send “NACK feedback indication” either after Msg3 or Msg5 to device(s) that failed, whenever it intends to terminate the data transmission for device(s) in this “paging round”.

[R2-2502749](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502749.zip) Discussion on random access aspects for Ambient IoT LG Electronics Inc. discussion FS\_Ambient\_IoT\_solutions

Proposal 6. NACK based mechanism is applied only to the Msg3.

**NACK Multiplexing**

[R2-2502717](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502717.zip) Further consideration on A-IoT random access CMCC discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 5a: A-IoT Msg4 (NACK message) for multiple A-IoT devices can be multiplexed into one A-IoT MAC PDU, with one message header to indicate message type.

**NACK indication for CFRA**

[R2-2501813](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501813.zip) Random Access Procedure for AIoT Device vivo discussion FS\_Ambient\_IoT\_solutions

Proposal 8. Failure indication for CFRA Msg1 is not supported since the device may receive a new CFRA Msg0 triggering when the previous Msg1 is not received successfully by reader.

[R2-2501829](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501829.zip) Discussion on A-IoT random access HONOR discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501847](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501847.zip) Discussion on random access for A-IoT CATT discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501859](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501859.zip) Random Access for Ambient IoT device NEC discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501987](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501987.zip) Ambient-IoT Random Access Ofinno, LLC discussion

[R2-2502023](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502023.zip) Discussion on A-IoT message format for CBRA and CFRA Tejas Network Limited discussion Rel-19

[R2-2502029](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502029.zip) Discussions on AIoT Random Access Fujitsu discussion Rel-19 FS\_Ambient\_IoT\_solutions

[R2-2502151](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502151.zip) Aspects on RA for AIoT Nokia discussion Ambient\_IoT\_Solutions

[R2-2502187](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502187.zip) Discussion on Random Access for Ambient IoT Apple discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502216](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502216.zip) Further discussions on A-IoT random access Futurewei discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502221](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502221.zip) Considerations for re-access in Ambient IoT ETRI discussion

[R2-2502243](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502243.zip) Random access procedure for ambient IoT China Telecom discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502430](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502430.zip) Discussion on A-IoT random access Spreadtrum, UNISOC discussion Rel-19

[R2-2502578](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502578.zip) Discussion on re-access mechanism for D2R failures Panasonic discussion Rel-19

[R2-2502623](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502623.zip) Discussion on re-access for A-IoT Continental Automotive discussion

[R2-2502625](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502625.zip) Random access types supported by AIoT devices NTT DOCOMO, INC. discussion Rel-19

[R2-2502691](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502691.zip) Discussion on random access procedures Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2502746](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502746.zip) Further consideration of A-IoT random access for Ambient IoT Kyocera discussion Rel-19

[R2-2502820](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502820.zip) Discussion on Ambient IoT Msg2 design ASUSTeK discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502875](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502875.zip) Discussion on random access for Ambient IoT CEWiT discussion

[R2-2502905](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502905.zip) Discussion on random access aspects of Ambient IoT KT Corp. discussion Rel-19 Ambient\_IoT\_Solutions-Core

### 8.2.4 A-IoT Data Transmission and Other general aspects

*Contributions should focus on MAC PDU/signaling general format (the content of paging, Msg1, Msg2 etc. should be discussed in above specific agendas), data (re)transmission for failure handling, segmentation for D2R, AS ID, message size information pending SA2 input, etc.Including outcome of [POST129][036][AIoT] AS ID (Xiaomi)*

**AS ID**

[R2-2501965](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501965.zip) [POST129][036][AIoT] AS ID (Xiaomi) Xiaomi discussion Rel-19 Ambient\_IoT\_Solutions

**General AS ID (Easy Proposals)**

Ph2- Proposal 1 (0/23): AS ID is applied for Inventory + command case;

Ph2-Proposal 2 (Ph2-2/23, Ph1-8 /23): AS ID is not included in D2R message except Msg 1 (RN16 in Msg 1 has been agreed. Option2 of CFRA depends on the discussion on P5 series); Leave it to implementation on how to resolve multi-Reader scenario.

Ph2-Proposal 3 (Ph2-2/23, Ph1-6/23): For both CFRA and CBRA, the AS ID size is same as RN 16, i.e. 16 bits.

Ph2-Proposal 4: Do not specify the reader behaviour on how exactly the ASID is generated.

Ph2-Proposal 7: the device releases the AS ID upon power off (no specification impact);

Ph2-Proposal 8: The device only keeps one AS ID at a time.

**R2D Message that assigns AS ID for CFRA**

Ph2-Proposal 5a (0): For CFRA, exclude Option 3: “New Msg” for AS ID assignment

Ph2-Proposal 5b (4): For CFRA, exclude option 2 only: “Option 2: the device includes a random ID in Msg 1 (Inventory Response). The reader reuses it as the AS ID”

Ph2-Proposal 5c (9): For CFRA, Option 4: Msg 2 (Command message) is used for AS ID assignment

**R2D Message that assigns AS ID for CFRA**

Ph2-Proposal 6a (0): For CBRA, exclude Option 3: “New Msg” for AS ID assignment

Ph2-Proposal 6b (3): For CBRA, exclude option 4: “Msg 4 (First Command message) for AS ID assignment”

Ph2-Proposal 6c (11): For CBRA, Option1: Msg 2 is used for AS ID assignment;

**Validity of AS ID**

* Validity options

Option 1: The device releases the AS ID upon receiving Paging with with same/new transaction id, i.e. same/different session/service

Option 2: The device releases the AS ID upon timer expiry; The Timer could be configured by the reader, or pre-defined in the specification;

Option 3: The device releases the AS ID upon receiving new assigned AS ID from the Reader

Option 4: The device releases the AS ID after completion of the command procedure

Option 5: The device releases the AS ID upon power off

Option 6: The device releases the AS ID upon receiving explicit release indication from the Reader

Ph2-Proposal 9a (3): For validity of AS ID, exclude option 2 The device releases the AS ID upon timer expiry

Ph2-Proposal 9b (3): For validity of AS ID, exclude option 4 The device releases the AS ID after completion of the command procedure

Ph2-Proposal 9c-alt1: For validity of AS ID, RAN2 further down-selection among option 6 (11) and Combined option 1+3, taking into account of the pros/cons in the discussion, FFS on whether the AS ID is only valid in the same paging round, paging session, whether “the explicit indication is missing” is a rare case or not.

**Down-selection of AS ID Validity**

[R2-2502244](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502244.zip) A-IoT data transmission and other general aspects China Telecom discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 5. Regarding the validity of AS ID, AS ID could become invalid upon receiving a paging message.

[R2-2502556](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502556.zip) Remaining Aspects on AS ID and Segmentation InterDigital discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 5: The device maintains the AS ID upon reception of paging with the same transaction ID.

Proposal 6: The device releases the AS ID upon reception of paging with a different transaction ID.

Proposal 8: The device releases its AS ID and replaces it with a new AS ID in the message used by the reader to assign the new AS ID. RAN2 assumes no restriction on when such message can be sent by the reader.

[R2-2502776](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502776.zip) Discussion on A-IoT data transmission Samsung discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 2-1: RAN2 is kindly asked to agree that, as a baseline, the explicit release indication from the reader can be used to release the AS ID.

**Segmentation**

**Whether retransmission of segments applies also to unsegmented data**

[R2-2501848](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501848.zip) Discussion on data transmission for A-IoT CATT discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 2: RAN2 to confirm that packets without segmentation can also be retransmitted using the same mechanism as segmented retransmissions, based on the 1-bit ‘notTheLast’ indication from device to reader and the offset indication from reader to device.

[R2-2502269](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502269.zip) A-IoT data transmission Huawei, HiSilicon discussion Rel-19

Proposal 8b: Don’t support the entire D2R message re-transmission triggered by “received size/offset=0”, since the failure may be due to R2D command missing.

**Retransmission of the first segment**

[R2-2502776](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502776.zip) Discussion on A-IoT data transmission Samsung discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 4-3: for the retransmission of the first segment/unsegmented D2R message, the reader can send the R2D message by including the upper layer command again instead of indicating the number of successfully received bits to be zero.

**Inclusion of the command in the R2D message for segmentation**

[R2-2502030](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502030.zip) Discussions on Data Transmission and Other General Aspects Fujitsu discussion Rel-19 FS\_Ambient\_IoT\_solutions

Proposal 2: To achieve a simple and unfied design of segmentation and unsegmented transmission, option 2 is preferred, i.e., reader includes the upper layer command each time together with the offset information in the R2D message triggering the A-IoT device to (re)send the segment.

[R2-2502696](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502696.zip) Discussion on data transmission for A-IoT CMCC discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 6-2: In case first segment and unsegmented packet retransmission, the command message should be re-contained in the R2D message.

**Whether to support segmentation of MSG3**

[R2-2501964](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501964.zip) Protocol design principle and considerations on Data transmission Xiaomi discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1: RAN2 confirms there is no additional effort to support Msg3 segmentation/segmentation retransmission. Whether to segment a Msg3 is up to the reader implementation.

[R2-2502201](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502201.zip) Discussion on A-IoT data transmission and other general aspects Lenovo discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 5: RAN2 assumes that segmentation is not applied to Msg3.

[R2-2502042](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502042.zip) Discussion on AIoT data transmission related functionalities OPPO discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 4: segmentation on Msg3 is allowed only for CFRA.

**MSG Size for Segmentation**

[R2-2501814](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501814.zip) AIoT Data Transmission vivo discussion FS\_Ambient\_IoT\_solutions

Proposal 1. Support remaining D2R message size report from device to reader.

[R2-2502586](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502586.zip) Data Transmission and Other General Aspects of Ambient IoT Qualcomm Incorporated discussion Ambient\_IoT\_Solutions-Core

Proposal 3: RAN2 confirms 1-bit indication about whether more data will be sent is sufficient for D2R data segmentation.

**MAC PDU Format**

**Byte Alignment**

[R2-2502244](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502244.zip) A-IoT data transmission and other general aspects China Telecom discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1. No need to support byte-alignment for A-IoT MAC PDU.

[R2-2501981](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501981.zip) Ambient IoT MAC PDU formats MediaTek Inc. discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 11: The D2R and R2D data PDU formats have their control parts filled to an integer number of octets, so that the data portion starts on an octet boundary. The fill bits can be treated as reserved.

[R2-2502269](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502269.zip) A-IoT data transmission Huawei, HiSilicon discussion Rel-19

Proposal 11: For the very small R2D message sending frequently, byte-alignment (i.e. deliberate padding) is not required, and can be discussed case by case (e.g., QueryRep-like message).

Proposal 12: The D2R message should be byte-aligned, assuming the allocated TBS value is in the unit of byte.

Proposal 13: RAN2 assumes that the upper layer data SDU is byte-aligned, and an LS can be sent to CT1.

**D2R Padding and Length Field**

[R2-2502586](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502586.zip) Data Transmission and Other General Aspects of Ambient IoT Qualcomm Incorporated discussion Ambient\_IoT\_Solutions-Core

Proposal 7: The MAC padding is supported at least from D2R from RAN2 perspective.

Proposal 9: A length field is supported for D2R data MAC SDU to support varying lengths of D2R data. The size of length field is FFS.

**Message Type for D2R**

[R2-2502303](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502303.zip) Data Transmission Aspects for A-IoT Ericsson discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 2 No need of message type field in D2R message.

[R2-2502208](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502208.zip) Open issues for data transmission and MAC PDU design ZTE Corporation, Sanechips discussion

Proposal 5: The general message structure for MAC includes the following fields

• Message type field (FFS if this is needed for all messages – e.g. for RN16)

• Header fields (these fields contain the information that it terminated in MAC layer) – i.e. not passed to upper layers

• Payload (the information in the payload is passed to upper layers)

• Padding (the need for padding is FFS for now)

[R2-2501830](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501830.zip) Discussion on Data Transmission for Ambient IoT HONOR discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501890](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501890.zip) Ambient-IoT Data transmission NEC discussion Rel-19

[R2-2502152](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502152.zip) AIoT data transmission aspects Nokia Denmark discussion Ambient\_IoT\_Solutions

[R2-2502175](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502175.zip) A-IoT MAC design for data transmission Apple discussion Ambient\_IoT\_Solutions

[R2-2502217](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502217.zip) Further discussions on A-IoT data transmission and other aspects Futurewei discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502343](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502343.zip) Discussion on AS ID Panasonic discussion Rel-19

[R2-2502431](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502431.zip) Discussion on A-IoT data transmission Spreadtrum, UNISOC discussion Rel-19

[R2-2502485](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502485.zip) Considerations on segmentation Sony discussion Rel-19 FS\_Ambient\_IoT\_solutions

[R2-2502671](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502671.zip) Discussion on A-IoT data transmission LG Electronics Inc. discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502686](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502686.zip) Discussion on AIoT data transfer NTT DOCOMO, INC. discussion Rel-19

[R2-2502747](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502747.zip) Further consideration of A-IoT data transmission for Ambient IoT Kyocera discussion Rel-19

[R2-2502821](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502821.zip) Discussion on the assistance information from device ASUSTeK discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2502960](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502960.zip) Discussion on A-IoT data segmentation and transmission III discussion

## 8.3 AI/ML for Mobility

(FS\_NR\_AIML\_Mob; leading WG: RAN2; REL-19; SID: [RP-242393](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_105/Docs/RP-242393.zip))

Time budget: 2 TUs

Tdoc Limitation: 3 tdocs

### 8.3.1 Organizational

LS, Rapporteur input, including workplan, etc.

Including outcome of [POST129][021][AI Mob] TR update (Oppo)

[R2-2501821](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501821.zip) Summary of [POST129][021][AI Mob] TR update (OPPO) OPPO. discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501822](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501822.zip) Text proposal of TR 38.744 OPPO pCR Rel-19 38.744 0.0.7 FS\_NR\_AIML\_Mob

[R2-2502107](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502107.zip) Discussion on the simulation results illustration for AI mobility MediaTek Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

### 8.3.2 RRM measurement prediction

#### 8.3.2.1 Simulation results

*No further simulation evaluations are expected for this AI*

#### 8.3.2.2 Model Generalization

*Contributions on generalization should focus on the configuration #1 and configuration #2 that were agreed in RAN2-129 for FR1. Generalization for FR2 can also be submitted.*

[R2-2502001](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502001.zip) Discussion on Generalization Issues for AI/ML Mobility Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 1: For Case B temporal domain prediction in FR1, RAN2 to capture the observation that it is generalizable over cell configurations with different deployment scenarios.

Proposal 2: For Case B temporal domain prediction in FR1, RAN2 to capture the observation that GC#2 slightly improves the accuracy of the AI/ML model compared to GC#1, while offering comparable accuracy as baseline.

[R2-2502463](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502463.zip) RRM measurement prediction model generalization evaluation for different cell configurations Huawei, HiSilicon discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 3: For FR2, AIML model generalizes very well for different cell configurations and across different channel models. The prediction accuracy difference is non-existent or negligible, i.e. 0.05 dB for GC#1 and 0.01 dB for GC#2.

Observation 4: For FR2, AIML model generalizes equally well for both “directions”, i.e. model trained with Configuration#1 and used for inference for Configurtion#2 and the other way around.

[R2-2501790](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501790.zip) Simulation results of model generalization on cell configuration vivo discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 2: For intra-frequency temporal domain prediction in FR1/FR2, the model trained in UMi scenario shows better prediction accuracy when tested in UMa scenario.

Observation 3: For intra-frequency temporal domain prediction in FR1/FR2, the model trained in UMa scenario shows worse prediction accuracy when tested in UMi scenario.

All contributions below are noted

[R2-2501824](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501824.zip) Discussion on model generalization of RRM measurement prediction OPPO discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501926](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501926.zip) Simulation results of Model Generalization CATT, Turkcell discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501935](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501935.zip) Discussion on generalization performance over cell configuration Xiaomi discussion

[R2-2502112](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502112.zip) Generalization performance evaluation MediaTek Inc. discussion

[R2-2502176](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502176.zip) On generalization across cell configurations Apple discussion FS\_NR\_AIML\_Mob

[R2-2502253](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502253.zip) Generalization of AIML models for RRM measurement prediction Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502281](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502281.zip) Simulation Results for Model Generalization Qualcomm Incorporated discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502627](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502627.zip) Generalization of the AI/ML models for RRM prediction Ericsson discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502879](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502879.zip) Evaluation results for RRM measurement prediction generalization Nokia discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502969](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502969.zip) Discussion on model generalization of RRM measurement prediction ZTE Corporation discussion Rel-19 FS\_NR\_AIML\_Mob

### 8.3.3 Measurement event predictions

*Contributions on evaluations/simulation results. System level performance results can also be submitted in this AI for companies providing such results.*

Objective in Case A (FR2): Predict A3 events to enhance HO execution via earlier HO Prep upon A3 event prediction (as shown in Option 2 or Option 3), i.e., HO performance enhancement.

A diagram of a procedure

Description automatically generated with medium confidence

Objective in Case B (FR1): Predict A3 events in the presence of skipped measurements, i.e., overhead reduction while maintaining similar HO performance.

[R2-2501823](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501823.zip) Simulation results of measurement event prediction OPPO discussion Rel-19

Observation 4: AI/ML with handover decision option 2 (handover model option 1 in TR) shows a comparable total number of HOF per UE per second when compared with the legacy HO mechanism.

[R2-2501927](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501927.zip) Simulation results of measurement event prediction and handover performance CATT, Turkcell discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 6: Option3 is superior to option2 both in terms of handover failure rate and handover failure number.

[R2-2502464](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502464.zip) Further simulation results for measurement event prediction in FR2 Huawei, HiSilicon discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 1: For FR2 to FR2 intra-frequency temporal domain case A (Case 4), F1 score is higher for shorter TTT values of the predicted event.

Observation 4: The performance gain is observed in terms of both HOF rate and total number of HOF per UE per second, e.g. in the RAN2 agreed scenario HOF rate drops from 70% to 25% while the total number of HOF per UE per second drops from 0.419 to 0.105.

Observation 5: AIML models can help to improve the mobility performance significantly, even when the achieved F1 score is low.

[R2-2502106](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502106.zip) Discussion and preliminary results for direct and indirect event prediction MediaTek Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 9: Both direct event prediction and indirect prediction methodologies demonstrate a reduction in HOF number per UE per second when compared to the legacy approach at the system level performance.

[R2-2501791](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501791.zip) Simulation results for measurement event prediction and SLS vivo discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501863](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501863.zip) Simulation assumptions, metrics and specification impact for measurement event prediction NEC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501905](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501905.zip) Discussion on measurement event prediction using large language model BJTU discussion

[R2-2501936](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501936.zip) Discussion on event prediction simulation results Xiaomi discussion

[R2-2502138](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502138.zip) Simulation results for measurement event prediction and system level performance Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502230](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502230.zip) Evaluations on measurement event prediction NTT DOCOMO, INC. discussion

[R2-2502254](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502254.zip) Measurement event predictions Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

=> Withdrawn

[R2-2502282](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502282.zip) Simulation Results for Measurement Event Prediction Qualcomm Incorporated discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502628](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502628.zip) SLS Results for Event Predictions Ericsson discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502880](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502880.zip) On the measurement event prediction Nokia discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502968](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502968.zip) Discussion on measurement event prediction ZTE Corporation discussion Rel-19 FS\_NR\_AIML\_Mob

### 8.3.4 RLF/HO failure prediction

*RLF failure prediction will not be further studied in Rel-19*

### 8.3.5 LCM and spec impact for AI/ML mobility

*Contributions should focus on the LCM framework/signaling for RRM measurement prediction and measurement event prediction, and the gap from the currently agreed LCM framework for the beam management use case under the AI/ML for NR air interface work item.*

*Contributions can address required signaling and protocol to enable reporting of inference outcome for RRM measurement prediction and measurement event prediction for a UE sided model, or the required signaling and protocol aspects to enable reporting of UE assistance for inference operation of a network sided model for RRM measurement prediction.*

**Scenarios/Sub-UseCases/Domains:**

[R2-2501789](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501789.zip) Way forward on study of beam-level prediction vivo, Ericsson, ZTE, Huawei, HiSilicon, CATT, NTT DOCOMO, CMCC, Samsung, Interdigital discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 1: Consider L3 beam-level prediction in the specification impact analysis in the SI phase.

Proposal 2: L3 beam-level prediction includes temporal, frequency and spatial domain predictions. Temporal and frequency domain prediction to be considered with higher priority for detailed specification impact analysis, if needed.

[R2-2501825](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501825.zip) Discussion on spec impact of AI mobility OPPO discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 14: By taking all the observations and proposals into account, here is summary of study scope:

|  |  |  |
| --- | --- | --- |
|  | UE sided model | Network sided model |
| Measurement event prediction | Yes, focus on indirect | No |
| Temporal domain case A | Yes, all sub cases | Yes, Only sub-case2 |
| Temporal domain case B | Yes , all sub cases | Yes , Only sub-case2 |
| Frequency domain | Yes , all sub cases | Yes , Only sub-case2 |
| Spatial domain | Pending | No |
| L3 beam level measurement prediction | Pending | No |

**General LCM:**

[R2-2501792](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501792.zip) Discussion on LCM and spec impact vivo discussion Rel-19 FS\_NR\_AIML\_Mob



Proposal 1. The general LCM framework for beam management can be the baseline for AI mobility. RAN2 takes the above Figure 2.1-2 as potential LCM procedure for AI mobility into account for further discussion, including the following aspects:

* Data collection for model training
* UE capability
* Applicability reporting
* Inference configuration and reporting
* Performance monitoring and management

[R2-2502177](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502177.zip) On LCM for AI/ML mobility Apple discussion FS\_NR\_AIML\_Mob

Proposal 2: only functionality-based LCM is considered for AI/ML mobility.

Proposal 3: only the following LCM functions are considered: functionality activation/deactivation and fallback, applicability reporting, data collection for network-sided models, and UE-sided model training (for now, may be revised later depending on the progress in the AI/ML air interface).

Proposal 4: monitoring discussion is put on hold pending RAN4 progress.

**UE capability/functionality granularity:**

[R2-2502711](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502711.zip) Discussion on LCM for RRM measurement prediction with UE sided model CMCC discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 4: AI/ML-enabled features in AI/ML for Mobility could be defined based on the use cases, including:

* AI/ML-enabled RRM measurement prediction
* AI/ML-enabled Measurement events prediction

Proposal 5: RAN2 considers the granularity of functionality, for example,

* Option 1: Based on the prediction type, the *AI/ML functionalities* for RRM measurement prediction could be:
* Temporal domain prediction
* Frequency domain prediction
* Spatial domain prediction
* Option 2: Based on the finer granularity (e.g., combine prediction types and sub-use cases), in Temporal domain prediction, Frequency domain prediction and Spatial domain prediction the AI/ML functionalities could be further divided into:
* To predict beam level results, then generate cell level results based on the predicted beam results
* To directly predict cell level results based on cell level results
* To directly predict cell level results based on beam level results

[R2-2501825](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501825.zip) Discussion on spec impact of AI mobility OPPO discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 25: To support following functionalities for LCM discussion:

* Functionality 1: Intra-frequency RRM measurement reduction
* Functionality 2: RRM measurement prediction in frequency domain
* Functionality 3: Intra-frequency RRM measurement prediction in future window
* Functionality 4: Measurement event prediction\*
* Relationship between this and RRM measurement prediction is FFS.

**Inference/Reporting configuration**

[R2-2502822](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502822.zip) Discussion on LCM for AIML Mobility ASUSTeK discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 1: The inference configuration for AI/ML mobility can be based on RRM measurement configuration (e.g., MeasObject(s), ReportConfig(s), and/or MeasId(s)).

Proposal 3: The inference configuration for RRM prediction may include associated ID, frequency information, cell information, prediction window related parameters, and/or observation window related parameters.

Proposal 4: The current measurement reporting could be enhanced to consider predicted measurements.

[R2-2502255](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502255.zip) LCM and spec impact for AI/ML mobility Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 11: The UE automatically activates the applicable RRM measurement prediction and measurement event configurations (i.e., starts the measurement/event predictions according to the configurations, and sends measurement reports according to the reporting configurations).

Proposal 12: The UE can be configured to perform one or more of the following reporting based on predicted RRM measurements/events:

- Periodic measurement reports that include current measurements and predicted measurements.

- Events triggered measurement reports based on current measurements, where the measurement report includes current and/or predicted measurements and/or indications for predicted events.

- Event triggered measurement reports based on current/predicted measurements/events, where the measurement report includes current and predicted measurements.

[R2-2501792](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501792.zip) Discussion on LCM and spec impact vivo discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 15. For RRM measurement prediction of UE-sided model, the network may configure the following parameters in inference configuration:

* Temporal domain case B prediction: information related to MRRT;
* Temporal domain case A prediction: information related to PW length;
* Spatial domain prediction: information related to MRRS.

[R2-2501928](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501928.zip) Specification impact for AIML mobility CATT, Turkcell discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 18: For indirect measurement event prediction, the model inference configuration e.g., input and output configuration of model inference is the same as that for RRM measurement prediction.

Proposal 20: For direct measurement event prediction, the input/output configuration of model can be configured from network to UE:

* Input configuration: measurement resources of serving/neighbouring cells, event configuration parameters (e.g., TTT), other configuration information is FFS;
* Output configuration: the probability of event occurrence within a time window.

Proposal 21: For direct measurement event prediction, enhanced RRM measurement reporting mechanism is needed for the inference result reporting, e.g. reporting the probability of event occurrence within a time window.

**Applicability determination/reporting:**

[R2-2502139](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502139.zip) Discussion on LCM and spec impact for AI/ML mobility Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal. 3: For AI/ML for mobility, UE can report the applicable functionalities to NW via UAI or RRCReconfigurationComplete message.

[R2-2502650](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502650.zip) Discussion on LCM for AI for Mobility Ericsson discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 16 Associated ID from AIML for PHY Beam Management is taken as baseline for Mobility use case.

Proposal 17 Similar to Beam Management use case, what the associated ID represents for mobility use case is left to network implementation.

Proposal 18 RAN2 discuss how to extend the associated ID to consider the state of the neighbouring cells in model training.

[R2-2502970](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502970.zip) Discussion on spec impact for AI mob ZTE Corporation discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 4: For the granularity for the AI mobility specific associated id, RAN2 to discuss the following options:

* Option 1: per area level associated id;
* Option 2: per scenario level associated id.

**Data collection:**

[R2-2502881](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502881.zip) Considerations on LCM for AIML Mobility Nokia discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 6: Consider immediate MDT and the measurement reporting framework as the starting point for data collection for NW-side deployments. Study additional data elements and methods needed for data collection at the NW-side.

Proposal 7: Postpone discussions on UE-side data collection until there is more progress in the Rel. 18-19 AIML Phy use-cases.

[R2-2502711](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502711.zip) Discussion on LCM for RRM measurement prediction with UE sided model CMCC discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 12: For the data content for UE sided model training, at least L3 cell level measurement results and/or L1 beam level measurement results and/or L3 beam level measurement results should be collected from UE for RRM measurement prediction, e.g., beam/cell level RSRPs of one or more than one intra-frequency cell(s) or inter-frequency cell(s).

**Performance monitoring (if time allows):**

[R2-2502139](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502139.zip) Discussion on LCM and spec impact for AI/ML mobility Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal. 7: For AI/ML for mobility, for NW-side model, the model/functionality management decision can be up to NW implementation and transparent to UE.

Proposal. 9: For AI/ML for mobility, for UE-side model, the functionality management decision can be made by NW as a baseline. FFS. Whether to support UE-side decision.

Proposal. 10: For performance monitoring of NW-side model, UE can provide the label data (i.e., actual measurement results) for gNB. The existing measurement/report configuration can be reused to configure UE to report the actual measurement.

Proposal. 11: For AI/ML for mobility, for UE-side model, UE can perform the performance monitoring (e.g., performance metric calculation) and report the monitoring results to NW as baseline.

[R2-2502462](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502462.zip) Discussion on specification impacts of AIML aided mobility Huawei, HiSilicon discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 8: The two options for performance monitoring agreed in AIML air interface can be reused for AIML aided mobility, i.e. NW-side and UE-assisted performance monitoring:

* For NW-side monitoring, the reported measurement result can be L3 cell/beam level measurement result.
* For UE-assisted monitoring, RAN2 needs to discuss the performance metric(s) calculated at UE side, e.g., RSRP difference for RRM measurement prediction, F1 score for indirect measurement event prediction.

**Not treated**

[R2-2501862](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501862.zip) RRM measurement prediction specification impact discussion NEC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501937](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501937.zip) Discussion on LCM and spec impact for AI/ML mobility Xiaomi discussion

[R2-2501990](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501990.zip) LCM and Spec Impact for AI/ML Mobility Lenovo discussion Rel-19

[R2-2502003](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502003.zip) Discussion on AIML mobility LCM procedure NEC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502113](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502113.zip) Discussion on LCM and Specificaton Impact for AI Mobility MediaTek Inc. discussion

[R2-2502179](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502179.zip) On standards impacts other than LCM Apple discussion FS\_NR\_AIML\_Mob

[R2-2502231](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502231.zip) Discussions on LCM and specification impact for AI/ML mobility NTT DOCOMO, INC. discussion

[R2-2502283](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502283.zip) LCM and specifications impact for AI/ML for mobility Qualcomm Incorporated discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502437](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502437.zip) Discussion on LCM and spec impact for AIML mobility Spreadtrum, UNISOC discussion Rel-19

[R2-2502460](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502460.zip) Discussion on Specification-related Aspects for AI/ML-based Mobility Sharp discussion

[R2-2502500](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502500.zip) Data collection for event prediction Sony discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502712](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502712.zip) Discussion on LCM for RRM measurement prediction with NW sided model CMCC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502733](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502733.zip) Discussion on LCM for measurement event prediction CMCC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2502925](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502925.zip) Discussion on LCM and spec impact ETRI discussion

[R2-2502949](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502949.zip) Discussion on specification impact for event prediction KDDI Corporation discussion Rel-19

## 8.4 Low-power wake-up signal and receiver for NR (LP-WUS/WUR)

(NR\_LPWUS-Core; leading WG: RAN1; REL-19; WID [RP-241824](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_105/Docs/RP-241824.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.4.1 Organizational

LS, Rapporteur input, including workplan, Running CRs, etc.

[R2-2501743](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501743.zip) LS on LP-WUS UE RF (R4-2503003; contact: vivo) RAN4 LS in Rel-19 NR\_LPWUS-Core To:RAN1 Cc:RAN2

[R2-2501954](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501954.zip) Running 37.340 CR for LP-WUS ZTE Corporation, Sanechips draftCR Rel-19 37.340 18.5.0 NR\_LPWUS-Core

[R2-2501955](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501955.zip) Summary of [Post129][213] LP-WUS in MR-DC ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

[R2-2502098](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502098.zip) Discussion on UE capability for LP-WUS Huawei, HiSilicon discussion Rel-19

[R2-2502141](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502141.zip) 38.304 Running CR for LP-WUS (CATT) CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2502142](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502142.zip) Summary of [Post129][212][LPWUS] Running CR for TS 38.304 (CATT) CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2502153](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502153.zip) RRC Running CR for LP-WUS WUR vivo (Rapporteur) draftCR Rel-19 38.331 18.5.1 B NR\_LPWUS-Core

[R2-2502154](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502154.zip) Whether/How to reduce the number of thresholds for LP-WUS monitoring and RRM relaxation/offloading vivo discussion Rel-19 NR\_LPWUS-Core

[R2-2502307](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502307.zip) Running MAC CR for LP-WUS Apple draftCR Rel-19 38.321 18.5.0 B NR\_LPWUS-Core

[R2-2502913](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502913.zip) Introduction of Low-Power Wake-Up Signal and Receiver for NR Ericsson draftCR Rel-19 38.300 18.5.0 NR\_LPWUS-Core

### 8.4.2 Procedure and configuration of LP-WUS in RRC\_IDLE/INACTIVE

Procedure and configuration of LP-WUS indicating paging monitoring triggered by LP-WUS, including at least configuration, sub-grouping, and entry/exit condition for LP-WUS monitoring

[R2-2501831](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501831.zip) LP-WUS in RRC\_IDLE/INACTIVE HONOR discussion Rel-19 NR\_LPWUS-Core

[R2-2501893](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501893.zip) Discussion on LP-WUS in RRC\_IDLE INACTIVE NEC discussion Rel-19 NR\_LPWUS-Core

[R2-2501960](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501960.zip) Procedure and configuration of LP-WUS for IDLE and INACTIVE mode ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

[R2-2501997](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501997.zip) Procedure and Configuration of LP-WUS in RRC Idle Inactive Mode Samsung discussion Rel-19

[R2-2502005](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502005.zip) Remaining issues on LP-WUS paging monitoring Xiaomi Communications discussion

[R2-2502014](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502014.zip) IDLE/INACTIVE mode procedures for supporting LP-WUS Tejas Network Limited discussion Rel-19

[R2-2502097](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502097.zip) Discussion on procedure and configuration of LP-WUS in RRC\_IDLE/INACTIVE Huawei, HiSilicon discussion Rel-19

[R2-2502143](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502143.zip) LP-WUS in RRC\_IDLE/INACTIVE CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2502155](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502155.zip) Discussion on LP-WUS WUR in RRC\_IDLE INACTIVE vivo discussion Rel-19 NR\_LPWUS-Core

[R2-2502212](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502212.zip) LP-WUS in IDLE and INACTIVE Nokia discussion Rel-19 NR\_LPWUS-Core

[R2-2502227](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502227.zip) Remaining issues on LP-WUS in RRC IDLE or INACTIVE LG Electronics Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2502308](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502308.zip) Procedure and configuration of LP-WUS in RRC\_IDLE/INACTIVE Apple discussion Rel-19 NR\_LPWUS-Core

[R2-2502324](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502324.zip) Discussion on LP-WUS procedure and configuration OPPO discussion Rel-19 NR\_LPWUS-Core

[R2-2502447](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502447.zip) LP-WUS operation in IDLE/Inactive state Qualcomm Incorporated discussion NR\_LPWUS-Core

[R2-2502486](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502486.zip) RAN2 aspects on LP-WUS/WUR in RRC Idle/Inactive mode Sony discussion Rel-19 NR\_LPWUS-Core

[R2-2502597](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502597.zip) Procedure and Configuration of LP-WUS in RRC IDLE/INACTIVE Lenovo discussion Rel-19 NR\_LPWUS-Core

[R2-2502659](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502659.zip) Discussion on LP-WUS operation in RRC\_IDLE/INACTIVE modes InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2502743](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502743.zip) Discussion on LP-WUS in RRC\_IDLE and RRC\_INACTIVE Sharp discussion Rel-19

[R2-2502901](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502901.zip) Further Consideration on LP-WUS operation in IDLE/INACTIVE CMCC discussion Rel-19 NR\_LPWUS-Core

[R2-2502910](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502910.zip) LP-WUS in idle and inactive Ericsson discussion

[R2-2502976](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502976.zip) Discussion on the LP-WUS handling for Emergency call back NTT DOCOMO INC.. discussion Rel-19 NR\_LPWUS-Core

[R2-2502977](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502977.zip) Discussion on the LP-WUS capability issue within non-homogeneous deployment NTT DOCOMO INC.. discussion Rel-19 NR\_LPWUS-Core

### 8.4.3 RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE

RRM relaxation of UE MR for both serving and neighbor cell measurements, and UE serving cell RRM measurement offloaded from MR to LP-WUR, including the necessary conditions

[R2-2501894](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501894.zip) Discussion on LP-WUS RRM NEC discussion Rel-19 NR\_LPWUS-Core

[R2-2501967](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501967.zip) Further discussion on the criteria for RRM measurement relaxation and offloading Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

[R2-2501998](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501998.zip) RRM measurement relaxation and offloading in RRC Idle Inactive Mode Samsung discussion Rel-19

[R2-2502006](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502006.zip) Discussion on RRM measurement relaxation for RRC\_IDLE\_INACTIVE Xiaomi Communications discussion

[R2-2502144](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502144.zip) RRM Relaxation and Offloading in RRC\_IDLE/INACTIVE CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2502156](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502156.zip) Discussion on RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE vivo discussion Rel-19 NR\_LPWUS-Core

[R2-2502213](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502213.zip) RRM measurement relaxation in RRC\_IDLE/INACTIVE Nokia discussion Rel-19 NR\_LPWUS-Core

[R2-2502228](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502228.zip) Remaining issues on measurement offloading and relaxation LG Electronics Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2502309](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502309.zip) RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE Apple discussion Rel-19 NR\_LPWUS-Core

[R2-2502325](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502325.zip) Discussion on RRM measurement in RRC IDLE and INACTIVE OPPO discussion Rel-19 NR\_LPWUS-Core

[R2-2502351](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502351.zip) RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE Lenovo discussion Rel-19

[R2-2502449](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502449.zip) LP-WUS RRM measurement relaxation and offloading Qualcomm Incorporated discussion NR\_LPWUS-Core

[R2-2502660](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502660.zip) Discussion on RRM measurement relaxation and offloading InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2502722](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502722.zip) Discussion on RRM measurement relaxation and offloading in RRC\_IDLE INACTIVE CMCC discussion Rel-19 NR\_LPWUS-Core

[R2-2502744](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502744.zip) Discussion on RRM measurement relaxation and offloading Sharp discussion Rel-19

[R2-2502757](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502757.zip) Discussion on neighboring cell measurement with LR InterDigital, Ericsson, Nokia, Sony, Vodafone, KT discussion Rel-19 NR\_LPWUS-Core

[R2-2502760](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502760.zip) Discussion on RRM measurement relaxation and offloading for RRC\_IDLE and INACTIVE China Telecom discussion

[R2-2502911](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502911.zip) LP-WUS and RRM measurements Ericsson discussion

[R2-2502931](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502931.zip) RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core [R2-2501090](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501090.zip)

### 8.4.4 Procedures for LP-WUS in RRC\_CONNECTED

Procedures to allow UE MR PDCCH monitoring triggered by LP-WUS including activation and deactivation procedure of LP-WUS monitoring.

[R2-2501769](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501769.zip) Discussing on LP-WUS monitoring in Connected mode Xiaomi discussion Rel-19 NR\_LPWUS-Core

[R2-2501832](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501832.zip) Procedures for LP-WUS in RRC\_CONNECTED HONOR discussion Rel-19 NR\_LPWUS-Core

[R2-2501895](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501895.zip) Discussion on LP-WUS in RRC\_CONNECTED NEC discussion Rel-19 NR\_LPWUS-Core

[R2-2501961](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501961.zip) Procedures for LP-WUS in RRC\_CONNECTED ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

[R2-2501992](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501992.zip) Remainng issues on LP-WUS in RRC\_CONNECTED LG Electronics Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2501999](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501999.zip) Procedures for LP-WUS in RRC Connected Mode Samsung discussion Rel-19

[R2-2502016](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502016.zip) LP-WUS operation in Connected mode Tejas Network Limited discussion Rel-19

[R2-2502145](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502145.zip) Analysis on LP-WUS for RRC\_CONNECTED CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2502157](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502157.zip) Discussion on LP-WUS WUR in RRC\_Connected vivo discussion Rel-19 NR\_LPWUS-Core

[R2-2502310](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502310.zip) Procedures for LP-WUS in RRC\_CONNECTED Apple discussion Rel-19 NR\_LPWUS-Core

[R2-2502326](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502326.zip) Discussion on LP-WUS in RRC\_CONNECTED OPPO discussion Rel-19 NR\_LPWUS-Core

[R2-2502448](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502448.zip) LP-WUS operation in CONNECTED state Qualcomm Incorporated discussion NR\_LPWUS-Core

[R2-2502471](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502471.zip) Further discussion on LP-WUS for RRC\_CONNECTED mode Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

[R2-2502477](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502477.zip) LP-WUS in CONNECTED mode InterDigital discussion Rel-19 NR\_LPWUS-Core

[R2-2502598](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502598.zip) LP-WUS in RRC Connected Mode Lenovo discussion Rel-19 NR\_LPWUS-Core

[R2-2502723](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502723.zip) Discussion on LP-WUS operation in CONNECTED mode CMCC discussion Rel-19 NR\_LPWUS-Core

[R2-2502882](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502882.zip) LP-WUS in RRC\_CONNECTED Nokia, Nokia Shanghai Bell discussion NR\_LPWUS-Core

[R2-2502912](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502912.zip) LP-WUS in connected Ericsson discussion

## 8.5 Network Energy Saving Enh.

(Netw\_Energy\_NR\_enh-Core; leading WG: RAN1; REL-19; WID: [RP-242354](https://www.3gpp.org/ftp/meetings_3gpp_sync/ran/docs/RP-242354.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.5.1 Organizational

Incoming LS, WI rapporteur inputs, CR rapporteur inputs (including post email discussion [POST129][101], [102], [103], [104], summary of identified open issues that need online discussion and rapporteur’s suggestions if needed).

[R2-2501722](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501722.zip) LS on time location of on-demand SSB for Scell (R1-2501633; contact: LGE) RAN1 LS in Rel-19 Netw\_Energy\_NR\_enh To:RAN4 Cc:RAN2

[R2-2501740](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501740.zip) LS on neighboring cell measurement for Rel-18 SSB-less (R4-2502694; contact: ZTE) RAN4 LS in Rel-18 Netw\_Energy\_NR To:RAN2

[R2-2501956](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501956.zip) Running 38.306 CR for NES UE capability ZTE Corporation, Sanechips draftCR Rel-19 38.306 18.5.0 Netw\_Energy\_NR\_enh-Core

[R2-2501984](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501984.zip) Introduction of Network Energy Savings Enhancements running CR Huawei, HiSilicon draftCR Rel-19 38.300 18.5.0 B Netw\_Energy\_NR\_enh-Core

[R2-2502129](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502129.zip) Summary report of [POST129][104][NES] 38.304 running CR and stage 3 open issues Apple (Rapporteur) discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502150](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502150.zip) Summary of Comments to 38.331 CR for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502173](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502173.zip) Running RRC CR for enhancements for network energy efficiency Ericsson draftCR Rel-19 38.331 18.5.1 Netw\_Energy\_NR\_enh-Core

[R2-2502323](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502323.zip) Running 38.304 CR for network energy saving Apple (Rapporteur) draftCR Rel-19 38.304 18.4.0 B Netw\_Energy\_NR\_enh-Core

[R2-2502584](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502584.zip) Summary of Comments to 38.321 CR for NES InterDigital discussion Rel-19

[R2-2502587](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502587.zip) Running 38.321 CR for network energy saving InterDigital draftCR Rel-19 38.321 18.5.0 B Netw\_Energy\_NR\_enh-Core

### 8.5.2 On-demand SSB SCell operation

Remaining open issues, including details of OD-SSB MAC CE (with the consideration of RAN1 progress), L3 RRM measurements, stage-3 identified open issues if needed, etc.

[R2-2501805](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501805.zip) Discussion on on-demand SSB Xiaomi discussion

[R2-2501833](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501833.zip) Discussion on on-demand SSB HONOR discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501867](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501867.zip) On-demand SSB SCell Operation Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501886](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501886.zip) Discussion on On-Demand SSB OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501901](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501901.zip) Consideration on on-demand SSB SCell operation CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501957](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501957.zip) Remaining issues of on demand SSB Scell operation ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502002](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502002.zip) Discussion on on-demand SSB SCell operation Sharp discussion

=> Withdrawn

[R2-2502130](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502130.zip) Remaining issues on on-demand SSB for Scell Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502136](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502136.zip) Discussion on OD-SSB Rakuten Mobile, Inc discussion Rel-19

[R2-2502148](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502148.zip) Discussion on on-demand SSB for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502219](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502219.zip) NES SCell handling for OD-SSB ETRI discussion

[R2-2502225](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502225.zip) Remaining issues on on-demand SSB SCell operation Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502320](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502320.zip) Further discussion on On-demand SSB for SCell NEC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502371](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502371.zip) Issues on the procedure of on-demand SSB SCell operation Lenovo discussion Rel-19

[R2-2502384](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502384.zip) Remaining issues of on-demand SSB SCell operation vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502487](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502487.zip) On-demand SSB Scell operation discussion Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502540](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502540.zip) Discussion on On-demand SSB SCell Operation Qualcomm Incorporated discussion

[R2-2502582](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502582.zip) On demand SSB transmission for SCell InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502724](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502724.zip) Discussion on On-demand SSB for Scell CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502742](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502742.zip) On-demand SSB SCell operation Panasonic discussion Rel-19

[R2-2502780](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502780.zip) Discussion on on-demand SSB SCell operation NTT DOCOMO, INC. discussion Rel-19

[R2-2502840](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502840.zip) Discussion on on-demand SSB SCell operation for NES Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502847](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502847.zip) Discussion on on-demand SSB transmission LG Electronics France discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502864](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502864.zip) Discussion on On-demand SSB KDDI Corporation (TTC) discussion

[R2-2502907](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502907.zip) Discussion on on-demand SSB SCell operation Sharp discussion

[R2-2502915](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502915.zip) On demand SSB handling Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh-Core

### 8.5.3 On-demand SIB1

Remaining open issues, including the unsettled issue for RRC connected UEs, details of OD-SIB1 request procedure, stage-3 identified open issues if needed, etc.

[R2-2501795](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501795.zip) Discussion on on-demand SIB1 Xiaomi discussion Rel-19

[R2-2501834](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501834.zip) Discussion on on-demand SIB1 HONOR discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501864](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501864.zip) Remaining issues for On-demand SIB1 request and UE behaviour NEC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501866](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501866.zip) On-demand SIB1 Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501902](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501902.zip) Consideration on on-demand SIB1 CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501958](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501958.zip) Remaining issues of on demand SIB1 ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501982](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501982.zip) Discussion on remaining issues of on-demand SIB1 operation for NES Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502104](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502104.zip) Remaining issues on the support for OD-SIB1 Google discussion Rel-19 Netw\_Energy\_NR\_enh-Core [R2-2500463](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500463.zip)

[R2-2502131](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502131.zip) Remaining issues on on-demand SIB1 Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502134](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502134.zip) Discussion on on-demand SIB1 for NES Rakuten Mobile, Inc discussion Rel-19

[R2-2502149](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502149.zip) Discussion on on-demand SIB1 for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502226](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502226.zip) Remaining issues on on-demand SIB1 procedure Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502229](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502229.zip) Remaining issues on OD-SIB1 LG Electronics Inc. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502261](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502261.zip) Discussion on Ondemand-SIB1 KDDI Corporation (TTC) discussion Rel-19

[R2-2502385](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502385.zip) Discussion on OD-SIB1 for RRC IDLE and INACTIVE UE vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502400](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502400.zip) Discussion on on-demand SIB1 for handling RLF ITRI discussion Netw\_Energy\_NR\_enh-Core

[R2-2502488](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502488.zip) Remaining details for on-demand SIB1 Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502541](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502541.zip) Discussion on On-demand SIB1 Qualcomm Incorporated discussion

[R2-2502577](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502577.zip) SIB1 acquisition for Rel-19 NES UE in RRC\_CONNECTED state Fainity Innovation discussion

[R2-2502580](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502580.zip) On-demand SIB1 request and reception InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502596](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502596.zip) Remaining OD SIB1 issues Lenovo discussion

[R2-2502725](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502725.zip) Discussion on On-demand SIB1 CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502761](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502761.zip) Consideration on on-demand SIB1 OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502781](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502781.zip) Discussion on on-demand SIB1 NTT DOCOMO, INC. discussion Rel-19

[R2-2502876](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502876.zip) Discussion on remaining issues of on-demand SIB1 SHARP Corporation discussion Rel-19

[R2-2502900](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502900.zip) Discussion on On-demand SIB1 for NES Fraunhofer IIS, Fraunhofer HHI discussion Rel-19

[R2-2502916](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502916.zip) On demand SIB1 handling Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh-Core

### 8.5.4 Adaptation of common signal/channel transmissions

Remaining open issues, including RAN2 spec impacts and discussion with consideration of RAN1 progress, stage-3 identified open issues if needed, etc.

[R2-2501796](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501796.zip) Discussion on common signal adaptation Xiaomi discussion Rel-19

[R2-2501817](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501817.zip) Discussion on adaptation of common signal channel transmission OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501865](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501865.zip) PRACH, paging and SSB adaptation for NES NEC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501868](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501868.zip) Adaptation of common signal channel transmissions Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501903](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501903.zip) Adaptation of Common signal channel transmissions CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501959](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501959.zip) Remaining issues of common signal/channel transmissions ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502031](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502031.zip) Adaptation of common signal or channel Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502132](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502132.zip) Remaining issues on common signal transmission adaptation Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502372](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502372.zip) Paging and PRACH adaptation Lenovo discussion Rel-19

[R2-2502386](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502386.zip) Discussion on adaptation of common signal transmissions vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502489](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502489.zip) RAN2 impacts on SSB and RACH adaptations Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502542](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502542.zip) Discussion on Adaptation of Common Signal/Channel Transmissions Qualcomm Incorporated discussion

[R2-2502581](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502581.zip) Time domain adaptation of common signalling and channels InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502726](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502726.zip) Discussion on Common signalling adaptation CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502766](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502766.zip) Adaptation of common signal/channel transmissions for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502782](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502782.zip) Discussion on adaptation of common signal and channel NTT DOCOMO, INC. discussion Rel-19

[R2-2502841](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502841.zip) Discussion on adaptation of common signals/channels transmissions Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2502917](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502917.zip) Adaptation of common signals Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh-Core

## 8.6 Mobility Enhancement Ph4

(NR\_Mob\_Ph4-Core; leading WG: RAN2; REL-19; WID: [RP-242356](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_105/Docs/RP-242356.zip))

Time budget: 2 TU

Tdoc Limitation: 3 tdocs

### 8.6.1 Organizational

Incoming LS, WI rapporteur inputs, CR rapporteur inputs (including post email discussion [POST129][106], [107], [108], [109], [110], [111], summary of identified open issues that need online discussion and rapporteur’s suggestions if needed).

[R2-2501709](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501709.zip) LS on activation/deactivation of semi-persistent CSI-RS resource for LTM candidate cells (R1- 2501500; contact: Fujitsu) RAN1 LS in Rel-19 NR\_Mob\_Ph4-Core To:RAN2 Cc:RAN3

[R2-2501715](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501715.zip) LS on L1filtering for LTM event triggered reporting (R1-2501577; contact: Fujitsu) RAN1 LS in Rel-19 NR\_Mob\_Ph4-Core To:RAN2

[R2-2501756](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501756.zip) Reply LS on security handling for inter-CU LTM in non-DC cases (S3-251124; contact: CATT) SA3 LS in Rel-19 NR\_Mob\_Ph4-Core To:RAN2, RAN3

[R2-2501900](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501900.zip) Report of [POST129][111][MOB] (CATT) CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502095](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502095.zip) Summary of [POST128][108][MOB] RRC running CR (Huawei) Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502096](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502096.zip) Draft running CR for event-triggered meas report for RRC Huawei, HiSilicon draftCR Rel-19 38.331 18.5.1 B NR\_Mob\_Ph4-Core

[R2-2502158](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502158.zip) Running MAC CR for Mob Ph4 vivo (Rapporteur) draftCR Rel-19 38.321 18.5.0 B NR\_Mob\_Ph4-Core

[R2-2502196](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502196.zip) Introduction of NR mobility enhancements Phase 4 in TS 38.300 Apple draftCR Rel-19 38.300 18.5.0 B NR\_Mob\_Ph4-Core

[R2-2502197](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502197.zip) Report of [POST129][106][Mob] Stage-2 CR 38.300 (Apple) Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502198](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502198.zip) Observations on some topics related to Rel-19 Mobility Enh WI Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502234](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502234.zip) Introduction of NR mobility enhancements Phase 4 in TS 37.340 China Telecom draftCR Rel-19 37.340 18.5.0 B NR\_Mob\_Ph4-Core

[R2-2502256](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502256.zip) Draft 306 running CR for UE capability for Mob Ph4 CATT draftCR Rel-19 38.306 18.5.0 NR\_Mob\_Ph4-Core

[R2-2502257](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502257.zip) Draft 331 running CR for UE capability for Mob Ph4 CATT draftCR Rel-19 38.331 18.5.1 NR\_Mob\_Ph4-Core

[R2-2502534](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502534.zip) Running RRC CR for inter-CU and conditional LTM Ericsson draftCR Rel-19 38.331 18.5.1 B NR\_Mob\_Ph4-Core

[R2-2502535](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502535.zip) List of FFSs for LTM and CLTM Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

### 8.6.2 Inter-CU LTM

Essential remaining open issues, including security key change handling based on S3-251124, details of fast recovery, FFS on R19 LTM coexistence with MIMO 2TA/mTRP, stage-3 identified open issues if needed, etc.

[R2-2501835](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501835.zip) Further discussion on inter-CU LTM HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501887](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501887.zip) Discussion on open issues for inter-CU LTM OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501897](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501897.zip) Discussion on Inter-CU LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501929](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501929.zip) Security discussion and other remaining issues of inter-CU LTM MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501977](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501977.zip) Discussion on inter-CU LTM Google discussion Rel-19

[R2-2501995](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501995.zip) Remaining issues of inter-CU LTM LG Electronics Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502017](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502017.zip) Remaining Issues for Inter-CU LTM Qualcomm Incorporated discussion

[R2-2502045](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502045.zip) On remaining issues for Inter-CU LTM Nokia discussion

[R2-2502066](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502066.zip) Discussion on inter-CU LTM Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502120](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502120.zip) Discussion on Inter-CU LTM Rakuten Mobile, Inc discussion Rel-19

[R2-2502121](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502121.zip) Discussion on Inter-CU LTM Rakuten Mobile, Inc discussion Rel-19

[R2-2502122](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502122.zip) Discussion on Inter-CU LTM Rakuten Mobile, Inc discussion Rel-19

[R2-2502135](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502135.zip) Discussion on Inter-CU LTM security and fast recovery InterDigital, Europe, Ltd. discussion Rel-19

[R2-2502159](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502159.zip) Discussion on inter-CU LTM vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502235](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502235.zip) Discussion on inter-CU LTM China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502285](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502285.zip) Discussion on inter-CU LTM Fujitsu discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502299](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502299.zip) Discussion on inter-CU LTM NEC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502340](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502340.zip) Discussion on inter-CU LTM ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502359](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502359.zip) Remaining issues for Inter-CU LTM Lenovo discussion Rel-19

[R2-2502381](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502381.zip) Discussion on issues for supporting inter-CU LTM Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502423](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502423.zip) Further discussion remaining issues of inter-CU LTM cell switch Transsion Holdings discussion Rel-19

[R2-2502444](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502444.zip) Discussion on security for inter-CU LTM Ericsson discussion NR\_Mob\_Ph4-Core

[R2-2502481](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502481.zip) Discussion on inter-CU LTM NTT DOCOMO, INC. discussion Rel-19

[R2-2502490](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502490.zip) LTM Resource consumption for the target cells Sony discussion Rel-19 NR\_Mob\_Ph4

[R2-2502509](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502509.zip) Discussion on remaining issues in Inter-CU LTM Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502601](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502601.zip) Discussion on open issues for inter-CU LTM Ofinno, LLC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502683](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502683.zip) Discussion on security handling for inter-CU LTM KT Corp. discussion

[R2-2502727](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502727.zip) Discussion on Inter-CU LTM CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502774](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502774.zip) Further Considerations to Support Inter-CU LTM Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

=> Withdrawn

[R2-2502852](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502852.zip) Further Considerations to Support Inter-CU LTM Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502944](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502944.zip) Inter-CU LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502965](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502965.zip) Discussion on inter-CU LTM DENSO CORPORATION discussion Rel-19 NR\_Mob\_Ph4-Core

### 8.6.3 L1 event triggered measurement reporting

Essential remaining open issues, including MAC CE introduction based on R1-2501500, details of MR MAC CE, stage-3 identified open issues if needed, etc.

[R2-2501836](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501836.zip) Discussion on measurement event evaluation and report HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501879](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501879.zip) Remaining issues of L1 event triggered measurement reporting Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501888](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501888.zip) Open issues for event triggered L1 measurement reporting OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501898](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501898.zip) L1 event triggered measurement reporting CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501930](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501930.zip) Remaining issues on event triggered L1 MR MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502019](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502019.zip) L1 event-triggered measurement reporting for LTM Qualcomm Incorporated discussion

[R2-2502032](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502032.zip) Discussions on measurement related enhancements for LTM Fujitsu discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502094](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502094.zip) Discussion on event-triggered meas report Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502133](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502133.zip) Discussion on L1 event triggered measurement reporting Rakuten Mobile, Inc discussion Rel-19

[R2-2502160](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502160.zip) Discussion on measurement event evaluation and reporting vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502236](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502236.zip) Discussion on L1 event triggered measurement reporting China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502311](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502311.zip) Discussion on L1 event triggered measurement Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502321](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502321.zip) Details of MAC CE for event-triggered L1 measurement report NEC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502341](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502341.zip) Discussion on L1 event triggered measurement reporting ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502360](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502360.zip) Event based L1 measurement report Lenovo discussion Rel-19

[R2-2502382](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502382.zip) Discussion on issues for supporting L1 event triggered measurement reporting Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502424](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502424.zip) Discussion on L1 event triggered measurement reporting Transsion Holdings discussion Rel-19

[R2-2502433](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502433.zip) Discussion on L1 event triggered measurement reporting Spreadtrum, UNISOC discussion Rel-19

[R2-2502445](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502445.zip) Discussion on event-based L1 measurements Ericsson discussion NR\_Mob\_Ph4-Core

[R2-2502552](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502552.zip) Further Details on L1 Measurement Reporting Enhancements for Rel-19 LTM Nokia discussion Rel-19 NR\_Mob\_Ph4-Core [R2-2500332](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500332.zip)

[R2-2502602](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502602.zip) Discussion on L1 event triggered measurement report Ofinno, LLC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502606](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502606.zip) LTM event-triggered measurement reporting Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2502721](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502721.zip) Discussion on L1 event triggered measurement reporting CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502799](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502799.zip) Remaining Issues of L1 Event Triggered Measurement Report Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502823](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502823.zip) Discussion on MR MAC CE for LTM ASUSTeK discussion Rel-19 NR\_Mob\_Ph4-Core [R2-2500417](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500417.zip)

[R2-2502831](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502831.zip) Discussion on L1 event triggered measurement reporting for LTM KDDI Corporation discussion Rel-19

[R2-2502950](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502950.zip) L1 event triggered measurement report LG Electronics Inc. discussion NR\_Mob\_Ph4-Core

### 8.6.4 Conditional intra-CU LTM

Essential remaining open issues, including details of early TAT handling, stage-3 identified open issues if needed, etc.

[R2-2501826](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501826.zip) Discussion on Conditional Intra CU LTM Lekha Wireless Solutions discussion Rel-19

[R2-2501837](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501837.zip) Discussion on conditional LTM HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501889](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501889.zip) Discussion on conditional LTM OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501899](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501899.zip) Discussion on Conditional Intra-CU LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501931](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501931.zip) Further discussion on Conditional LTM MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501996](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501996.zip) Remaining issues of CLTM LG Electronics Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502018](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502018.zip) Conditional intra-CU LTM Qualcomm Incorporated discussion

[R2-2502033](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502033.zip) Discussion on conditional Intra-CU LTM Fujitsu discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502067](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502067.zip) Discussion on conditional LTM Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502118](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502118.zip) Conditional LTM. Interdigital, Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502119](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502119.zip) Remaining issues of Conditional LTM Rakuten Mobile, Inc discussion Rel-19

[R2-2502161](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502161.zip) Discussion on conditional LTM vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502237](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502237.zip) Discussion on conditional intra-CU LTM China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502287](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502287.zip) Remaining open issues for CLTM NEC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502289](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502289.zip) Discussion on Conditional intra-CU LTM remaining issues Baicells Technologies Co. Ltd discussion

[R2-2502312](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502312.zip) Discussion on conditional Intra-CU LTM Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502342](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502342.zip) Discussion on conditional intra-CU LTM ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502383](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502383.zip) Discussion on issues for supporting conditional LTM Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502396](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502396.zip) CLTM Scenarios and remaining points Lenovo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502399](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502399.zip) Discussion on coexistence of conditional LTM and LTM ITRI discussion NR\_Mob\_Ph4-Core

[R2-2502425](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502425.zip) Discussion on Early TA handling Transsion Holdings discussion Rel-19

[R2-2502438](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502438.zip) Discussion on conditional LTM Spreadtrum, UNISOC discussion Rel-19

[R2-2502446](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502446.zip) Discussion on Conditional LTM Ericsson discussion NR\_Mob\_Ph4-Core

[R2-2502603](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502603.zip) Discussion on open issues for conditoinal LTM Ofinno, LLC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502728](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502728.zip) Discussion on Conditional LTM CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502748](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502748.zip) Remaining issues on conditional LTM ETRI discussion Rel-19

[R2-2502756](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502756.zip) Discussion on Conditional intra-CU LTM ITL discussion Rel-19

[R2-2502800](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502800.zip) Remaining Issues of Conditional Intra-CU LTM Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502824](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502824.zip) Discussion on early TAT handling for CLTM ASUSTeK discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2502846](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502846.zip) Considerations on CLTM TAT handling Kyocera discussion Rel-19

[R2-2502878](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502878.zip) On conditional LTM Nokia discussion Rel-19 NR\_Mob\_Ph4

[R2-2502945](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502945.zip) Intra-CU conditional LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

## 8.7 XR Enhancements Ph3

(NR\_XR\_Ph3-Core; leading WG: RAN2; REL-19; WID: [RP-243318](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_106/Docs/RP-243318.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

### 8.7.1 Organizational

LS, Rapporteur input, workplan, running CRs etc.Including initial input/CRs from R19 XR UE capabilities rapporteur.

[R2-2501754](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501754.zip) LS reply on multi-modality awareness (S2-2502465; contact: CMCC) SA2 LS in Rel-19 XRM\_Ph2, NR\_XR\_Ph3-Core To:RAN2, RAN3, SA Cc:SA4

[R2-2501757](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501757.zip) Reply to LS on Application-Layer FEC Awareness at RAN (S4-250252; contact: Qualcomm) SA4 LS in Rel-19 NR\_XR\_Ph3-Core, FS\_5G\_RTP\_Ph2, FS\_XRM\_Ph2 To:RAN2, SA2 Cc:RAN3

[R2-2501761](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501761.zip) Introduction to R19 XR enhancements Qualcomm Incorporated draftCR Rel-19 38.321 18.5.0 NR\_XR\_Ph3-Core

[R2-2501880](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501880.zip) UE capabilities for XR Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501950](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501950.zip) PDCP running CR for R19 XR LG Electronics Inc. (Rapporteur) draftCR Rel-19 38.323 18.5.0 NR\_XR\_Ph3-Core

[R2-2501951](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501951.zip) Discussion of [POST129][511][XR] PDCP running CR LG Electronics Inc. (Rapporteur) report Rel-19 NR\_XR\_Ph3-Core

[R2-2502089](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502089.zip) Draft runnnig RRC CR for R19 XR Huawei, HiSilicon draftCR Rel-19 38.331 18.5.1 B NR\_XR\_Ph3-Core

[R2-2502091](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502091.zip) Summary for [POST129][510][XR] RRC running CR (Huawei) Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502162](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502162.zip) RLC Running CR for XR vivo draftCR Rel-19 38.322 18.2.0 B NR\_XR\_Ph3-Core

[R2-2502275](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502275.zip) Rapporteur Inputs Nokia, Qualcomm (Rapporteurs) discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502276](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502276.zip) Draft Stage 2 CR for XR Nokia (Rapporteur) draftCR Rel-19 38.300 18.5.0 B NR\_XR\_Ph3-Core

### 8.7.2 Multi-modality support

**No contributions are expected for this AI for nobis**

### 8.7.3 RRM measurement gaps/restrictions related enhancements

**No contributions are expected for this AI for RAN2#129bis**

[R2-2501803](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501803.zip) Discussion on Measurement Gap enhancements OPPO discussion Rel-19 NR\_XR\_Ph3-Core

### 8.7.4 Scheduling enhancements

#### 8.7.4.1 LCP enhancements

Further details of handling of the additional priority for LCH, e.g. configuration details, impact on Bj, impact on SR priority determination during intra-UE prioritization.

[R2-2501762](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501762.zip) Discussion on LCP enhancements Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501815](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501815.zip) Discussion on LCH priority adjustment for XR OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501838](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501838.zip) Discussion on LCP enhancements HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501870](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501870.zip) Consideration on LCP Enhancement CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501946](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501946.zip) Discussion on LCP Enhancements Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502008](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502008.zip) Discussion on LCP enhancements of XR traffic Xiaomi Communications discussion

[R2-2502034](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502034.zip) Discussions on enhancements for LCH priority-adjusted data Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502163](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502163.zip) Remaining issues on LCP enhancements for XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502180](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502180.zip) Discussions on Delay-based LCP Enhancements Apple discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502202](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502202.zip) LCP enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2502265](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502265.zip) LCP Enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502295](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502295.zip) Considerations on LCP enhancements for XR NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502300](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502300.zip) Discussion on additional priority based LCP enhancements in XR Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502398](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502398.zip) Discussion on enhanced LCP for XR ITRI discussion NR\_XR\_Ph3-Core

[R2-2502562](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502562.zip) Considerations on LCP Enhancements China Telecom discussion

[R2-2502579](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502579.zip) remaining details on Intra-UE prioritization / LCP enhancements Lenovo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502583](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502583.zip) LCP enhancement for XR InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502718](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502718.zip) Further consideration on LCP enhancement for XR CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502848](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502848.zip) Remaining issues on LCP enhancement for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502934](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502934.zip) LCP enhancements Ericsson discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502948](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502948.zip) Finalising LCP design for XR Ph3 Samsung R&D Institute UK discussion

#### 8.7.4.2 DSR enhancements

Further details of enhanced DSR configuration/procedure, data volume calculation etc..

[R2-2501763](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501763.zip) Discussion on DSR enhancements Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501816](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501816.zip) Discussion on DSR enhancements for XR OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501839](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501839.zip) Discussion on DSR enhancements HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501871](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501871.zip) Consideration on DSR Enhancement CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501947](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501947.zip) Discussion on DSR Enhancements Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502007](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502007.zip) Discussion on DSR enhancements of XR traffic Xiaomi Communications discussion

[R2-2502035](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502035.zip) Discussions on DSR enhancements Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502060](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502060.zip) Remaining issues on DSR enhancements TCL discussion

[R2-2502164](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502164.zip) Remaining issues on DSR enhancements for XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502181](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502181.zip) On Data Volume Calculations for Rel-19 DSR Apple, CATT, LG Electronics, OPPO, Samsung, Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502204](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502204.zip) DSR enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2502266](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502266.zip) DSR Enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502296](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502296.zip) Considerations on DSR enhancements for XR NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502301](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502301.zip) Discussion on DSR enhancements in XR Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502364](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502364.zip) Enhanced delay status reporting for XR Lenovo discussion Rel-19

[R2-2502478](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502478.zip) DSR enhancements for UL scheduling InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502563](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502563.zip) Remaining Issues on DSR Enhancements China Telecom discussion

[R2-2502719](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502719.zip) Further consideration on DSR enhancement for XR CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502751](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502751.zip) Remaining Issues on DSR enhancements in Rel-19 XR Samsung discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502849](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502849.zip) Discussion on DSR enhancement for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502877](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502877.zip) Discussion on XR DSR enhancements III discussion NR\_XR\_Ph3-Core

[R2-2502932](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502932.zip) DSR enhancements Ericsson discussion Rel-19 NR\_XR\_Ph3-Core

### 8.7.5 RLC enhancements

Further details of autonmous retransmission and enhanced polling mechanisms (e.g. timer to be used) and unnecessary retransmission avoidance.

[R2-2501764](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501764.zip) Discussion on RLC enhancements Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501802](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501802.zip) Discussion on RLC re-transmission related enhancements OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501840](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501840.zip) Discussion on RLC enhancements HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501872](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501872.zip) Consideration on XR-specific RLC Enhancement CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501881](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501881.zip) RLC AM retransmission enhancements Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501948](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501948.zip) Discussion on RLC Enhancements in XR Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502036](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502036.zip) Discussions on RLC enhancements Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502165](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502165.zip) Discussion on RLC enhancement for XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502182](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502182.zip) Discussions on Fast RLC Retransmission Apple, Ericsson discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502183](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502183.zip) Views on Avoidance of Unnecessary RLC Retransmissions Apple discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502203](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502203.zip) RLC enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2502218](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502218.zip) On RLC Status report after discarding outdated AMD PDU Futurewei discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502222](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502222.zip) Discussion on RLC AM enhancements Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502223](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502223.zip) Remaining issues on RLC enhancements for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502277](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502277.zip) RLC enhancements Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502302](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502302.zip) Further discussion on RLC retransmission for XR Quectel discussion

[R2-2502365](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502365.zip) AM RLC enhancement Lenovo discussion Rel-19

[R2-2502401](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502401.zip) Discussion on RLC AM Enhancements CANON Research Centre France discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502436](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502436.zip) Discussion on timely RLC retransmission(s) Spreadtrum, UNISOC discussion Rel-19

[R2-2502479](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502479.zip) Discussion on RLC enhancements InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502491](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502491.zip) Timely retransmissions for RLC AM Sony, Canon discussion Rel-19 NR\_XR\_Ph3

[R2-2502501](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502501.zip) Remainning details on RLC AM enhancement NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502564](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502564.zip) Consideration on RLC AM Enhancements China Telecom discussion

[R2-2502673](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502673.zip) Discussion on UE Capabilities for RLC AM Enhancements Ericsson, Qualcomm Incorporated, ZTE Corporation, MediaTek Inc. discussion Rel-19

[R2-2502710](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502710.zip) Discussion on the left issue of RLC enhancements CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502853](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502853.zip) Discussion on RLC enhancements DENSO CORPORATION discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502860](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502860.zip) RLC Enhancements for XR Samsung discussion Rel-19

[R2-2502872](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502872.zip) Remaining issues on timely RLC retransmission TCL discussion Rel-19

[R2-2502972](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502972.zip) Remaining issues for XR RLC AM enhancement MediaTek Inc. discussion Rel-19 38.322 NR\_XR\_enh-Core

### 8.7.6 XR rate control

Including details of per QoS flow indication, e.g. QoS flow ID in MAC CE or in RRC, new bit rate table design, whether multipliers are needed etc.

[R2-2501765](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501765.zip) Discussion on XR rate control Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501841](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501841.zip) XR rate control HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501873](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501873.zip) Discussion on XR Rate Control CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501882](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501882.zip) XR rate control Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501949](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501949.zip) Discussion on Rate Control in XR Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502037](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502037.zip) Discussions on XR rate control Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502088](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502088.zip) Discussion on XR rate control Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502166](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502166.zip) Discussion on XR rate control vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502205](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502205.zip) Data rate control for XR applications ZTE Corporation, Sanechips discussion

[R2-2502224](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502224.zip) Remaining issues on rate control signaling for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502298](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502298.zip) Uplink rate control for XR NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502461](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502461.zip) XR Rate Control Lenovo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502480](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502480.zip) Discussion on UL congestion signaling InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502492](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502492.zip) Recommended bit rate based XR rate control Sony discussion Rel-19 NR\_XR\_Ph3

[R2-2502674](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502674.zip) Views on XR Rate Control Ericsson discussion Rel-19

[R2-2502720](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502720.zip) Further consideration on XR rate control CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502750](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502750.zip) Discussion on UL rate control for Rel-19 XR Samsung discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502762](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502762.zip) Discussion on XR rate control OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2502883](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502883.zip) XR rate control Nokia, Nokia Shanghai Bell discussion NR\_XR\_Ph3-Core

[R2-2502889](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502889.zip) Discussion on RAN Awareness and UL Rate Control for XR Meta discussion

[R2-2502890](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502890.zip) Discussion on XR rate control MediaTek Inc. discussion Rel-19 38.321 NR\_XR\_enh-Core

[R2-2502957](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502957.zip) Discussion on Rate Control for XR China Telecom discussion

## 8.8 NTN for NR Ph3

(NR\_NTN\_Ph3-Core; leading WG: RAN2; REL-19; WID: RP-243300)

LTE\_TN\_NR\_NTN\_mob, leading WG: RAN2, Rel-19 WID: [RP-240924](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_104/Docs/RP-240924.zip))

Time budget: 2 TU

Tdoc Limitation: 3 tdocs

### 8.8.1 Organizational

LS, Rapporteur input, including workplan, etc.

For the LTE\_TN\_NR\_NTN\_mob WI, including endorsed draft CRs from the WI spec rapporteurs.

Rapporteur inputs do not count towards the tdoc limitation.

[R2-2501770](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501770.zip) Introduction of LTE TN to NR NTN Mobility UE Capability vivo CR Rel-19 36.306 18.4.0 1900 3 B LTE\_TN\_NR\_NTN\_mob-Core [R2-2501417](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501417.zip)

=> Withdrawn

[R2-2502192](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502192.zip) Stage 2 Running CR for NR NTN phase 3 THALES draftCR Rel-19 38.300 18.5.0 B NR\_NTN\_Ph3-Core

[R2-2502511](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502511.zip) Discussion on NR NTN UE capabilities Apple discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502512](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502512.zip) Draft CR for Rel-19 NR NTN UE capabilities Apple draftCR Rel-19 38.306 18.5.0 NR\_NTN\_Ph3-Core

[R2-2502676](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502676.zip) Running RRC CR for NR NTN phase 3 Ericsson CR Rel-19 38.331 18.5.1 5315 - B NR\_NTN\_Ph3-Core

### 8.8.2 Downlink coverage enhancements

Contributions should focus on RAN2 aspects of DL coverage enhancements due to extended SIB periodicity (up to 160ms), including e.g. possible SMTC impacts (while no contributions are expected on cell level / beam level DTX/DRX mechanism).

[R2-2501774](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501774.zip) Discussion on DL Coverage in NTN vivo discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501798](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501798.zip) Discussion on DL coverage enhancement Xiaomi discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501804](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501804.zip) Discussion on downlink coverage enhancement LG Electronics Inc. discussion Rel-19

[R2-2501842](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501842.zip) Discussion on downlink coverage enhancement HONOR discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501974](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501974.zip) NTN downlink coverage enhancements Nokia, Nokia Shanghai Bell discussion NR\_NTN\_Ph3-Core

[R2-2502038](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502038.zip) Discussions on downlink coverage enhancement Fujitsu discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502048](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502048.zip) Discussion on downlink coverage enhancements in NR NTN ETRI discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502057](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502057.zip) Further discussion on downlink coverage enhancements CATT discussion Rel-19

[R2-2502072](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502072.zip) Discussion on NR NTN downlink coverage enhancements DENSO CORPORATION discussion NR\_NTN\_Ph3-Core

[R2-2502195](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502195.zip) Discussion on cell barring for NR NTN downlink coverage enhancements THALES discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502246](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502246.zip) Further discussion of NR NTN coverage enhancement China Telecom discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502315](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502315.zip) Downlink coverage enhancement for NTN InterDigital, Europe, Ltd. discussion Rel-19

[R2-2502328](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502328.zip) Discussion on DL coverage enhancement for NTN OPPO discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502352](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502352.zip) Further considerations on NR NTN DL-CE Lenovo discussion Rel-19

[R2-2502377](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502377.zip) Discussion on Downlink Coverage Enhancements Sharp discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502397](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502397.zip) Discussion on supporting location/time-based SMTC selection ITRI discussion NR\_NTN\_Ph3-Core

[R2-2502493](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502493.zip) SMTC impacts due to NTN downlink coverage enhancements Sony discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502502](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502502.zip) Downlink coverage enhancement NEC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502513](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502513.zip) DL coverage enhancement in NTN Apple discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502524](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502524.zip) Consideration on downlink coverage enhancements ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502629](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502629.zip) Downlink coverage enhancements and different SMTCs TOYOTA Info Technology Center discussion Rel-19

[R2-2502652](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502652.zip) Default extended SSB periodicity Qualcomm Incorporated discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502667](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502667.zip) Discussion on Downlink Coverage Enhancement Samsung discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502678](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502678.zip) DL coverage enhancements Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502739](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502739.zip) Analysis on DL coverage enhancements due to extended SSB periodicity CMCC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502839](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502839.zip) Discussion on DL coverage enhancements Huawei, HiSilicon, Turkcell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502863](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502863.zip) Discussion on Downlink Coverage Enhancements CSCN discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502870](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502870.zip) Discussion on DL coverage enhancements TCL discussion Rel-19

[R2-2502947](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502947.zip) Further discussion on NTN DL coverage enhancements NERCDTV discussion Rel-19

### 8.8.3 Uplink Capacity/Throughput Enhancement

Contributions can be submitted on the possible RAN2 aspects of the agreements reached in RAN1.

[R2-2502284](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502284.zip) Discussion on Uplink Capacity/Throughput Enhancement for NTN InterDigital, Europe, Ltd. discussion Rel-19

[R2-2502329](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502329.zip) Discussion on Uplink Capacity Enhancement OPPO discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502525](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502525.zip) Consideration on uplink capacity enhancements ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502612](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502612.zip) Discussion on Uplink Capacity Enhancements Huawei, HiSilicon, Turkcell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502699](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502699.zip) Discussion on uplink capacity/throughput enhancement for NR NTN CMCC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502856](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502856.zip) Discussion on UL Capacity and Throughput Enhancement Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.4 Support of Broadcast service

Contributions should address the signaling of the intended service area of a broadcast service.

[R2-2501775](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501775.zip) Remaining Issues on MBS Broadcast in NTN vivo discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501843](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501843.zip) Discussion on the support of broadcast service HONOR discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502039](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502039.zip) Discussions on supporting broadcast service Fujitsu discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502041](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502041.zip) Discussion on providing MBS service area in NTN network OPPO discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502044](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502044.zip) Discussion on the support of broadcast service in NTN ETRI discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502058](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502058.zip) Further discussion on support of broadcast service in NR NTN CATT discussion Rel-19

[R2-2502064](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502064.zip) Further Discussion on Support of MBS Broadcast Service TCL discussion

[R2-2502247](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502247.zip) The signaling design of service area for PWS and MBS China Telecom discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502353](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502353.zip) MBS broadcast service continuity in NR NTN Lenovo discussion Rel-19

[R2-2502354](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502354.zip) Further considerations on ETWS support in NR NTN Lenovo discussion Rel-19

[R2-2502376](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502376.zip) Remaining issues on intended service area Sharp discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502514](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502514.zip) Discussion on broadcast service over NTN Apple discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502526](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502526.zip) Consideration on broadcast service ehancements ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502537](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502537.zip) Discussion on the support of broadcast service Xiaomi discussion

[R2-2502551](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502551.zip) Remaining Aspects of MBS in Rel-19 NR NTN Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502651](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502651.zip) MBS broadcast service area information Qualcomm Incorporated discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502668](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502668.zip) Discussion on Broadcast Service Area Samsung discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502677](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502677.zip) Support for broadcast services in NR NTN Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502700](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502700.zip) Considerations on broadcast service for NR NTN CMCC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502741](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502741.zip) Discussion on support for broadcast service in NTN LG Electronics Inc. discussion

[R2-2502946](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502946.zip) Discussion on MBS broadcast over NTN Huawei, HiSilicon, China Southern Power Grid, Turkcell discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.5 Support of regenerative payload

Contributions, if any, should focus on the needed updates for Stage 2 description and on whether any other existing essential features (not considered so far) would be affected - and potentially need any modifications - in a regenerative payload architecture.

[R2-2502494](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502494.zip) Satellite switch with re-sync in regenerative payload Sony discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2502630](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502630.zip) Regenerative payload for NTN for NR Ph3 TOYOTA Info Technology Center discussion Rel-19

[R2-2502885](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502885.zip) Regenerative payload Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.6 LTE to NR NTN mobility

Contributions, if any, should focus on any possible missing aspects for the support of idle mode mobility between LTE and NR NTN.

[R2-2501776](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501776.zip) Remaining Issues on LTE to NR NTN Mobility vivo discussion Rel-19 LTE\_TN\_NR\_NTN\_mob-Core

[R2-2502056](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502056.zip) Discussion on a remaining issue for LTE\_TN\_NR\_NTN\_mob WI CATT discussion Rel-19

[R2-2502690](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502690.zip) Remaining issues on E-UTRAN to NR NTN mobility Samsung discussion Rel-19 LTE\_TN\_NR\_NTN\_mob-Core

## 8.9 IoT NTN Ph3

(IoT\_NTN\_Ph3-Core; leading WG: RAN2; REL-19; WID: RP-243278)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.9.1 Organizational

LS, Rapporteur input, including workplan, etc.

Rapporteur inputs do not count towards the tdoc limitation.

[R2-2501720](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501720.zip) Reply LS on PWS support in RRC\_CONNECTED for NB-IoT NTN (R1-2501613; contact: InterDigital) RAN1 LS in Rel-19 IoT\_NTN\_Ph3-Core To:RAN2, RAN

[R2-2501969](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501969.zip) RRC Running CR for IoT NTN Huawei, HiSilicon draftCR Rel-19 36.331 18.5.0 B IoT\_NTN\_Ph3-Core

[R2-2501979](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501979.zip) Running CR for TS36.304 for IoT-NTN Nokia draftCR Rel-19 36.304 18.3.0 B IoT\_NTN\_Ph3-Core

[R2-2502768](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502768.zip) MAC Running CR for Rel-19 IoT NTN MediaTek Inc. draftCR Rel-19 36.321 18.4.0 B IoT\_NTN\_Ph3-Core [R2-2501158](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501158.zip)

[R2-2502887](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502887.zip) Draft Introduction of IoT NTN phase 3 Ericsson draftCR Rel-19 36.300 18.4.0 B IoT\_NTN\_Ph3-Core

### 8.9.2 Support of Store & Forward

Contributions should focus on possible impacts to the radio interface.

[R2-2501766](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501766.zip) Discussion on Store and Forward operation Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501777](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501777.zip) Further Discussion on S&F Operation vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501818](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501818.zip) Remaining issues on S&F operation in IoT NTN ZTE Corporation, Sanechips discussion IoT\_NTN\_Ph3-Core

[R2-2501844](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501844.zip) Discussion on the Store and Forward satellite operation HONOR discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502046](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502046.zip) RAN2 impacts for SF Operation Nokia , Nokia Shanghai Bells discussion

[R2-2502053](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502053.zip) Discussion on RAN2 impacts for the support of S&F operation CATT discussion Rel-19

[R2-2502068](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502068.zip) Discussion on Store & Forward satellite operation OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502073](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502073.zip) Discussion on Store & Forward operation DENSO CORPORATION discussion IoT\_NTN\_Ph3-Core

[R2-2502101](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502101.zip) On the support for the S&F operation Google discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502116](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502116.zip) Store and Forward Cell Access Restrictions Interdigital, Inc. discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502245](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502245.zip) Further consideration of IoT NTN Store & Forward China Telecom discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502355](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502355.zip) Mode transition time for S&F operation Lenovo discussion Rel-19

[R2-2502426](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502426.zip) Discussion on support of Store&Forward Transsion Holdings discussion Rel-19

[R2-2502503](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502503.zip) Radio Interface Aspect of S&F NEC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502515](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502515.zip) Support of S&F operation in IoT NTN Apple discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502613](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502613.zip) Further consideration on Store and Forward Huawei, HiSilicon, Turkcell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502620](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502620.zip) Discussion on Paging and Mode Switching Toyota ITC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502622](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502622.zip) CIoT UP solution for Store & Forward satellite operation SHARP Corporation discussion Rel-19

[R2-2502655](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502655.zip) Switching of S&F mode Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502679](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502679.zip) Support for store and forward in IoT NTN Ericsson discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502685](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502685.zip) IoT-NTN S&F Mode Change Indication PANASONIC discussion

[R2-2502688](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502688.zip) Further discussion on Store and Forward Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502698](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502698.zip) Discussion on IoT NTN Store and Forward CMCC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502769](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502769.zip) RAN2 impact on S&F mode MediaTek Inc. discussion IoT\_NTN\_Ph3-Core [R2-2501159](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501159.zip)

[R2-2502805](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502805.zip) Discussion on Store and Forward satellite operation ETRI discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502845](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502845.zip) Discussion on Store and Forward satellite operation ETRI, Korea University discussion Rel-19 IoT\_NTN\_Ph3-Core [R2-2502805](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502805.zip)

[R2-2502825](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502825.zip) Discussion on time information for S&F ASUSTeK discussion Rel-19 IoT\_NTN\_Ph3-Core [R2-2500418](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500418.zip)

[R2-2502871](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502871.zip) Discussion on Store & Forward satellite operation TCL discussion Rel-19

### 8.9.3 Uplink Capacity Enhancement

Contributions should focus on the possible enhancements to reduce the necessary uplink and downlink signaling to complete an EDT transaction (Msg3 transmission without msg1/RAR; efficient delivery of msg4 / RRCEarlyDataComplete).

Including outcome of email discussion [Post129][307].

[R2-2501767](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501767.zip) Discussion on uplink capacity enhancements for IoT NTN Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501778](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501778.zip) Discussion on CB-EDT Mechanism vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501794](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501794.zip) Further considerations on Locating of CB-Msg3 Replicas for DSA NTPU discussion

[R2-2501819](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501819.zip) Further consideration on UL capacity enhancements in IoT NTN ZTE Corporation, Sanechips discussion IoT\_NTN\_Ph3-Core

[R2-2501845](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501845.zip) Discussion on UL capacity enhancement HONOR discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501966](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501966.zip) Further consideration on UL capacity enhancement Huawei, HiSilicon, Turkcell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502054](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502054.zip) Further consideration on UL capacity enhancements CATT discussion Rel-19

[R2-2502069](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502069.zip) Discussion on CB-msg3 EDT and msg4 enhancement OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502099](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502099.zip) Further consideration on UL capacity enhancement for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502117](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502117.zip) CB-EDT Interdigital, Inc. discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502356](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502356.zip) EDT for uplink capacity enhancement in NTN Lenovo discussion Rel-19

[R2-2502402](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502402.zip) Discussion on UL Capacity Enhancement for IoT-NTN NEC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502427](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502427.zip) Discussion on Uplink Capacity enhancement Transsion Holdings discussion Rel-19

[R2-2502428](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502428.zip) Remaining issues on CB-Msg3 transmission Spreadtrum, UNISOC discussion Rel-19

[R2-2502457](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502457.zip) On procedures for contention-based Msg3 Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502516](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502516.zip) Uplink capacity enhancement in IoT NTN Apple discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502656](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502656.zip) CB-Msg3 and Msg4 enhancements Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502701](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502701.zip) Further discussion on uplink capacity enhancement for IoT-NTN CMCC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502771](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502771.zip) Discussion on CB-Msg3 procedure MediaTek Inc. discussion IoT\_NTN\_Ph3-Core [R2-2501164](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501164.zip)

[R2-2502773](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502773.zip) Report of [Post129][307][R19 IoT NTN] CB-msg3/CB-msg4 MediaTek Inc. discussion

[R2-2502886](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502886.zip) UL capacity enhancements for IoT NTN Ericsson discussion Rel-19 IoT\_NTN\_Ph3-Core

### 8.9.4 Support of PWS

Contributions should focus on the introduction of support for broadcast of PWS messages for NB-IoT, re-using the LTE mechanisms.

[R2-2501768](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501768.zip) PWS support for NB-IoT over NTN Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501779](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501779.zip) Further Discussion on PWS Support for NB-IoT vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501820](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501820.zip) Remaining issues on PWS support in IoT NTN ZTE Corporation, Sanechips discussion IoT\_NTN\_Ph3-Core

[R2-2501983](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501983.zip) Remaining issues on PWS support for NB-IoT Huawei, HiSilicon, Novamint, Sateliot, Thales, Inmarsat, Viasat, Turkcell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502055](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502055.zip) Remaining issue on support of PWS for NB-IoT NTN UE CATT discussion Rel-19

[R2-2502070](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502070.zip) Discussion on PWS for NB-IoT OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502102](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502102.zip) Remaining issues on support of PWS for NB-IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502103](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502103.zip) On the support for PWS in NB-IoT Google discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502357](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502357.zip) Further considerations on PWS broadcast support in IoT NTN Lenovo discussion Rel-19

[R2-2502458](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502458.zip) Acceptable cell camping for NB-IoT Samsung, Iridium, Vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502657](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502657.zip) Discussion on PWS in NB-IoT NTN Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502680](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502680.zip) Enhancements to support PWS in NB-IoT NTN Ericsson discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502702](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502702.zip) Support of PWS messages for NB-IoT CMCC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2502770](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502770.zip) Discussion on supporting PWS for NB-IoT MediaTek Inc. discussion IoT\_NTN\_Ph3-Core [R2-2501161](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501161.zip)

## 8.10 SON/MDT Ph4

(NR\_ENDC\_SON\_MDT\_Ph4-Core; leading WG: RAN3; REL-19; WID: [RP-234038](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_102/Docs/RP-234038.zip))

Time budget: 0.5 TU

Tdoc Limitation: 4 tdocs

### 8.10.1 Organizational

LS, Rapporteur input, including workplan, etc.

[R2-2501734](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501734.zip) LS on SON for Network Slicing (R3-250914; contact: ZTE) RAN3 LS in Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN2

[R2-2501912](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501912.zip) Views on R19 SONMDT UE capabilities CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501913](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501913.zip) Introduction of SONMDT UE Capabilities CATT draftCR Rel-19 38.331 18.5.1 B NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501914](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501914.zip) Introduction of SONMDT UE Capabilities CATT draftCR Rel-19 38.306 18.5.0 B NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501915](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501915.zip) Introduction of SONMDT UE Capabilities CATT draftCR Rel-19 36.306 18.4.0 B NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502649](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502649.zip) Running CR for SONMDT features Ericsson draftCR Rel-19 38.331 18.5.1 B NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502787](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502787.zip) Running 36.331 CR for R19 SONMDT Huawei, HiSilicon draftCR Rel-19 36.331 18.5.0 B NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502788](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502788.zip) Open issue list for running 36.331 CR for R19 SONMDT Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502974](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502974.zip) Discussion on Rel-19 SONMDT open issues Xiaomi discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.2 MRO enhancements for Rel-18 mobility features

LTM has 1st priority. CHO with candidate SCGs has 2nd priority

Subsequent CPAC is paused until if/when we get a RAN3 LS on the subject

[R2-2502927](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502927.zip) Remaining issues for MRO ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

#### 8.10.2.1 LTM

[R2-2501916](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501916.zip) MRO Enhancements for LTM CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502288](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502288.zip) MRO enhancement for LTM NEC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502347](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502347.zip) Discussion on MRO enhancements for LTM Lenovo discussion Rel-19

[R2-2502408](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502408.zip) MRO for LTM and near failure handling for CHO with candidate SCGs Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502450](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502450.zip) SON and MDT for LTM Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502531](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502531.zip) Discussion on MRO enhancements Samsung discussion

[R2-2502604](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502604.zip) Discussion on MRO for LTM Ofinno, LLC discussion Rel-18 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502646](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502646.zip) Further considerations on Mobility Robustness Optimization Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502707](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502707.zip) MRO enhancements for LTM CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502789](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502789.zip) Discussion on MRO for LTM Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502806](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502806.zip) MRO for LTM LG Electronics Inc. discussion Rel-19 [R2-2501212](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501212.zip)

[R2-2502826](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502826.zip) Discussion on random access report for LTM ASUSTeK discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core [R2-2500419](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2500419.zip)

[R2-2502858](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502858.zip) RA information enhancement for LTM SHARP Corporation discussion

#### 8.10.2.2 CHO with candidate SCGs

[R2-2501917](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501917.zip) New SHR Trigger for CHO with Candidate SCGs CATT, Vivo, Lenovo, Huawei, HiSilicon, CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502348](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502348.zip) Discussion on MRO enhancements for CHO with candidate SCGs Lenovo discussion Rel-19

[R2-2502451](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502451.zip) SON and MDT for CHO with candidate SCGs Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502708](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502708.zip) MRO enhancements for CHO with candidate SCGs CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502790](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502790.zip) Discussion on MRO for CHO with candidate SCGs Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502807](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502807.zip) MRO for CHO and Associated CPAC LG Electronics Inc. discussion Rel-19 [R2-2501213](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501213.zip)

[R2-2502861](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502861.zip) SON enhancement for CHO with candidate SCG SHARP Corporation discussion

#### 8.10.2.3 Other

### 8.10.3 SON/MDT for Slicing

[R2-2502409](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502409.zip) Enhancements for network slicing (LS R3-250914) Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502452](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502452.zip) SON and MDT for slicing Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502518](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502518.zip) Discussion on MDT for Slicing Samsung discussion

[R2-2502647](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502647.zip) Discussion on slice base cell reselection information in Logged MDT Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502738](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502738.zip) Discussion on SONMDT for network slicing CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502791](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502791.zip) Discussion on SONMDT for Slicing Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502928](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502928.zip) SON/MDT for Slicing ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.4 SON/MDT for NTN

[R2-2501918](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501918.zip) Consideration on SONMDT enhancements for intra-NTN mobility CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502242](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502242.zip) SON of intra-NTN mobility China Telecom discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502349](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502349.zip) Discussion on MRO for intra-NTN mobility Lenovo discussion Rel-19

[R2-2502439](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502439.zip) SON/MDT for NTN Samsung discussion

[R2-2502453](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502453.zip) SON and MDT for NTN Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502641](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502641.zip) MRO for NTN RACH-less Access Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502648](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502648.zip) Discussion on the reply LS to RAN3 on SON-MDT enhancements for NTN Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502792](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502792.zip) Discussion on SONMDT for NTN Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502808](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502808.zip) NTN Logging for Unchanged PCI Mobility LG Electronics Inc. discussion Rel-19 [R2-2501214](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501214.zip)

[R2-2502929](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502929.zip) SON/MDT for NTN ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502975](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502975.zip) Discussion on SONMDT for NTN mobility Xiaomi discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.5 Leftovers from Rel-18

RACH optimization for SDT focus on RSRP and data volume in SON reports, and existing failure causes.

MHI Enhancement for SCG Deactivation/Activation.

[R2-2501919](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501919.zip) MHI Enhancement for SCG Activation and Deactivation CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502350](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502350.zip) Discussion on RACH optimization for SDT Lenovo discussion Rel-19

[R2-2502410](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502410.zip) MHI/UHI Enhancement for SCG Deactivation/Activation Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502482](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502482.zip) SON/MDT for Leftovers from Rel-18 Samsung discussion

[R2-2502709](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502709.zip) MHI/UHI Enhancement for SCG Deactivation/Activation CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502859](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502859.zip) RA report enhancements for SDT SHARP Corporation discussion

[R2-2502862](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502862.zip) MHI enhancement for SCG activation/deactivation SHARP Corporation discussion

[R2-2502930](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502930.zip) Remaining issues for Rel-18 leftovers ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2502951](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502951.zip) On remaining issues related to Rel.18 leftovers Ericsson discussion

## 8.11 Evolution of NR duplex operation: Sub-band full duplex (SBFD)

(NR\_duplex\_evo-Core; leading WG: RAN1; REL-19; WID: [RP‑241614](https://www.3gpp.org/ftp/meetings_3gpp_sync/ran/docs/RP-241614.zip))

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.11.1 Organizational

Incoming LS, Rapporteur input, including workplan, running CRs, etc..

Output of email discussion [Post129][217].

[R2-2501713](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501713.zip) Reply LS on CSI-RS measurement with SBFD operation (R1-2501560; contact: MediaTek) RAN1 LS in Rel-19 NR\_duplex\_evo-Core To:RAN4 Cc:RAN2

[R2-2501731](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501731.zip) SBFD information exchange among gNBs for CLI mitigation (R3-250888; contact: Huawei) RAN3 LS in Rel-19 NR\_duplex\_evo-Core To:RAN2 Cc:RAN1

[R2-2501738](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501738.zip) LS on L1 CLI measurement (R4-2502632; contact: Huawei) RAN4 LS in Rel-19 NR\_duplex\_evo-Core To:RAN1 Cc:RAN2

[R2-2501851](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501851.zip) TS 38300 Running CR for SBFD CATT draftCR Rel-19 38.300 18.5.0 NR\_duplex\_evo-Core

[R2-2502210](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502210.zip) Summary of [Post129][217][SBFD] List of open issues of RRC impact Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502279](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502279.zip) TS38.304 impacts on supporting Rel-19 SBFD NEC discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502549](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502549.zip) RRC running CR for Evolution of NR duplex operation (SBFD) Huawei, HiSilicon draftCR Rel-19 38.331 18.5.1 B NR\_duplex\_evo-Core

=> Revised in [R2-2502978](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502978.zip)

[R2-2502978](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502978.zip) RRC running CR for Evolution of NR duplex operation (SBFD) Huawei, HiSilicon draftCR Rel-19 38.331 18.5.1 B NR\_duplex\_evo-Core

[R2-2502567](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502567.zip) Introduction of SBFD UE capabilities (Running CR) Ericsson draftCR Rel-19 38.306 18.5.0 B NR\_duplex\_evo-Core

[R2-2502568](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502568.zip) Introduction of SBFD UE capabilities (Running CR) Ericsson draftCR Rel-19 38.331 18.5.1 B NR\_duplex\_evo-Core

[R2-2502591](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502591.zip) MAC running CR for Evolution of NR duplex operation: SBFD Samsung draftCR Rel-19 38.321 18.5.0 B NR\_duplex\_evo-Core

### 8.11.2 Random access in SBFD

RAN2 impacts to support SBFD operation to support random access in SBFD symbols by UEs in RRC \_CONNECTED mode and RRC\_IDLE/INACTIVE mode.

[R2-2501797](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501797.zip) Discussion on RACH in SBFD Xiaomi discussion Rel-19

[R2-2501849](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501849.zip) Random Access in SBFD symbols CATT discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501860](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501860.zip) Random Access for SBFD Operation NEC discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501878](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501878.zip) Impacts on the random access by the evolution of duplex operation Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501945](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501945.zip) Discussion on Random Access in SBFD Sharp discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502000](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502000.zip) Random access in SBFD Samsung discussion Rel-19

[R2-2502082](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502082.zip) Discussion on random access procedure in SBFD ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502316](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502316.zip) Random Access Operation of SBFD Nokia Corporation discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502387](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502387.zip) Discussion on random access procedure in SBFD vivo discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502394](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502394.zip) Remaining issues of SBFD RACH procedure OPPO discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502495](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502495.zip) Random access for SBFD Operation Sony discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502510](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502510.zip) Remaining issues for RACH in SBFD Apple discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502565](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502565.zip) SBFD RA aspects Ericsson discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502566](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502566.zip) CSI-RS measurements and SBFD operation in CA and DC Ericsson discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502588](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502588.zip) Views on random access for SBFD Qualcomm Incorporated discussion NR\_duplex\_evo-Core

[R2-2502642](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502642.zip) Discussion on Random Access operation in SBFD InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502706](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502706.zip) Discussion on random access in SBFD CMCC discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502850](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502850.zip) Discussion on Random Access procedure for SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502967](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502967.zip) Random Access in SBFD Lenovo discussion Rel-19 NR\_duplex\_evo-Core

### 8.11.3 Other aspects

Other RAN2 impacts with SBFD if not covered by the previous agenda items.

[R2-2501850](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501850.zip) Discussion on other aspects of SBFD CATT discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501883](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501883.zip) Other aspects of SBFD Xiaomi discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502083](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502083.zip) Discussion on multiple carrier and measurements in SBFD ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502318](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502318.zip) Other impacts by the evolution of duplex operation Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502388](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502388.zip) SBFD other aspects vivo discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502395](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502395.zip) Discussion on the SBFD related measurement and BFR OPPO discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502589](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502589.zip) Other aspects of SBFD Qualcomm Incorporated discussion NR\_duplex\_evo-Core

[R2-2502644](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502644.zip) Discussion on resource configuration in SBFD InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502801](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502801.zip) Other Aspects of SBFD Samsung discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502851](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502851.zip) Other aspects on SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

[R2-2502918](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502918.zip) Other aspects of SBFD Nokia discussion Rel-19 NR\_duplex\_evo-Core

## 8.12 NR MIMO Phase 5

(NR\_MIMO\_Ph5-Core; leading WG: RAN1; REL-19; WID: [RP-242394](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_105/Docs/RP-242394.zip))

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.12.1 Organizational

LSs and rapporteur input, including workplan, running CRs, etc.

Output of email discussion [Post129][208].

[R2-2501705](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501705.zip) LS to RAN2 on MAC impacts for Rel-19 NR MIMO Ph5 (R1-2500846; contact: Samsung) RAN1 LS in Rel-19 NR\_MIMO\_Ph5 To:RAN2

[R2-2502545](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502545.zip) Running CR for MIMO Phase 5 Ericsson CR Rel-19 38.331 18.5.1 5306 - B NR\_MIMO\_Ph5-Core

[R2-2502546](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502546.zip) Report of [Post129][208][ MIMO\_Ph5] Ericsson discussion

[R2-2502664](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502664.zip) Introduction of Rel-19 MIMO Samsung draftCR Rel-19 38.321 18.5.0 B NR\_MIMO\_Ph5-Core

[R2-2502715](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502715.zip) Work Plan for Rel-19 on NR MIMO Phase 5 CMCC,Samsung,MediaTek Work Plan Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502716](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502716.zip) Draft Running 38300 CR for Rel-19 MIMO Phase 5 CMCC,Samsung,MediaTek draftCR Rel-19 38.300 18.5.0 B NR\_MIMO\_Ph5-Core

=> Revised in [R2-2502988](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502988.zip)

[R2-2502988](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502988.zip) Draft Running 38300 CR for Rel-19 MIMO Phase 5 CMCC,Samsung,MediaTek draftCR Rel-19 38.300 18.5.0 B NR\_MIMO\_Ph5-Core

### 8.12.2 Asymmetric DL sTRP/UL mTRP

RRC/MAC aspects related to asymmetric DL sTRP/UL mTRP

[R2-2501943](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501943.zip) Discussion on Asymmetric DL sTRP/UL mTRP Xiaomi discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2501993](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501993.zip) Consideration on Asymmetric DL sTRP/UL mTRP LG Electronics Inc. discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502063](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502063.zip) Further discussion on asymmetric DL sTRP and UL mTRP SHARP Corporation discussion NR\_MIMO\_Ph5-Core

[R2-2502146](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502146.zip) Discussion on Asymmetric DL sTRP UL mTRP CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502167](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502167.zip) Discussion on MAC CE impact for asymmetric DL sTRP/UL mTRP scenarios vivo discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502304](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502304.zip) Asymmetric DL/UL mTRP user plane impacts Ericsson discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502317](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502317.zip) RAN2 Aspects of Asymmetric DL sTRP/UL mTRP Nokia Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502373](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502373.zip) Discussion on PL offset Lenovo discussion Rel-19

[R2-2502392](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502392.zip) Discussion on the remaining issues of the pathloss offset update OPPO discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502496](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502496.zip) Enhancement for Asymmetric DL sTRP/UL mTRP Sony discussion Rel-19 NR\_MIMO\_Ph5

[R2-2502536](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502536.zip) Discussion on asymmetric DL sTRP/UL mTRP China Telecommunications Corp. discussion

[R2-2502543](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502543.zip) Discussion on UL only mTRP Qualcomm Incorporated discussion

[R2-2502665](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502665.zip) Discussion on Asymmetric DL sTRP/UL mTRP Samsung discussion Rel-19 NR\_MIMO\_Ph5

[R2-2502713](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502713.zip) Discussion on Asymmetric DL sTRP/UL mTRP CMCC discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502834](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502834.zip) Discussion on remaining issues on Asymmetric DL sTRP/UL mTRP Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502866](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502866.zip) Consideration on the Remaining Issues of PL Offset MAC CE ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

### 8.12.3Others

Other issues if not covered by the previous agenda items.

[R2-2501944](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501944.zip) Discussion on open issues of RRC spec impact Xiaomi discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2501986](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501986.zip) Enhancements for UE-initiated/event-driven beam management Ofinno, LLC discussion

[R2-2501994](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501994.zip) Discussion on UEI beam reporting impact LG Electronics Inc. discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502065](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502065.zip) Further discussion on UE-initiated/event-driven beam management SHARP Corporation discussion NR\_MIMO\_Ph5-Core

[R2-2502147](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502147.zip) Discussion on UE-initiated Beam Reporting and CSI Enhancement CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502168](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502168.zip) Discussion on UE-initiated/event-driven beam management vivo discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502267](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502267.zip) Discussion on UE initiated beam reporting China Telecommunications Corp. discussion NR\_MIMO\_Ph5

[R2-2502314](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502314.zip) Discussion on UE-initiated Beam Reporting Apple discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502319](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502319.zip) RAN2 Aspects of the NR MIMO Nokia Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502374](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502374.zip) Discussion on UEIBR Lenovo discussion Rel-19

[R2-2502393](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502393.zip) Clarification on the uplink grant used for the UE initiated beam report OPPO discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502544](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502544.zip) Discussion on UE Initiated Beam Report Qualcomm Incorporated discussion

[R2-2502547](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502547.zip) Impacts from other NR MIMO Phase 5 objectives Ericsson discussion

[R2-2502666](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502666.zip) Discussion on UE-initiated Beam Reporting and CSI enhancement Samsung discussion Rel-19 NR\_MIMO\_Ph5

[R2-2502714](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502714.zip) Discussion on UE-initiated/event-driven beam management CMCC discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502827](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502827.zip) Discussion on PL offset value for Asymmetric DL sTRP/UL mTRP ASUSTeK discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502828](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502828.zip) Discussion on MAC impact regarding UEI reporting ASUSTeK discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502833](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502833.zip) Enhancements for UE-initiated/event-driven beam management Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2502867](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502867.zip) Consideration on the UEIBM and Other Issues ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

## 8.13 NR sidelink multi-hop relay

(NR\_SL\_relay\_multihop; leading WG: RAN2; REL-19; WID: [RP-242349](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_105/Docs/RP-242349.zip)[to be updated after RAN#107])

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.13.1 Organizational

LSs and rapporteur input, including workplan, etc.

[R2-2501874](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501874.zip) Introduction of Service Continuity for MH Sidelink Relay in 38331 CATT draftCR Rel-19 38.331 18.5.0 B NR\_SL\_relay\_multihop-Core

[R2-2501938](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501938.zip) Introduction of multi-hop U2N relay in TS 38.304 MediaTek Inc. draftCR Rel-19 38.304 18.4.0 B NR\_SL\_relay\_multihop, NR\_SL\_relay\_multihop-Core

[R2-2502278](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502278.zip) Terminology for specifications of L2 multi-hop relay LG Electronics France discussion Rel-19 NR\_SL\_relay\_multihop, NR\_SL\_relay\_multihop-Core

[R2-2502469](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502469.zip) Introduction of multi-hop U2N relay in TS 38.323 Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502557](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502557.zip) Draft Running CR for 38.321 InterDigital discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502608](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502608.zip) Introduction of NR sidelink multi-hop relay in TS 38.331 Huawei, HiSilicon draftCR Rel-19 38.331 18.5.0 F NR\_SL\_relay\_multihop-Core

[R2-2502695](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502695.zip) Multi-hop U2N Relay in TS 38.300 LG Electronics Inc. draftCR Rel-19 38.300 18.5.0 B NR\_SL\_relay\_multihop

[R2-2502980](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502980.zip) Introduction of NR sidelink multi-hop relay in TS 38.351 draftCR Rel-19 38.351 18.3.0 B NR\_SL\_relay\_multihop-Core

### 8.13.2 Relay discovery and (re)selection

Enhancements to relay dscovery and (re)selection to support one additional hop relay (remote UE ⬄ first relay UE ⬄ last relay UE ⬄ gNB). Extensibility to a second additional hop in this WI is considered as a design criterion.

[R2-2501799](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501799.zip) Discovery and relay (re)selection for multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2501854](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501854.zip) Discussion on Relay discovery and (re)selection ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2501875](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501875.zip) Discussion on Multi-hop Discovery and (Re)selection CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502010](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502010.zip) Discussion on multi-hop U2N relay discovery and relay selection NEC discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502188](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502188.zip) Relay discovery and selection for Multi-hop UE-to-NW Relay Apple discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502200](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502200.zip) Discovery and relay reselection for multihop relay Nokia discussion NR\_SL\_relay\_multihop

[R2-2502241](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502241.zip) Multi-hop relay discovery and reselection China Telecom discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502361](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502361.zip) Relay (re)selection in Multi-hop relay Lenovo discussion Rel-19

[R2-2502378](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502378.zip) discussion on Relay discovery and (re)selection for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502418](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502418.zip) Discussion on relay UE (re)selection for intermediate relay UE vivo discussion Rel-19

[R2-2502454](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502454.zip) Discovery and Relay (re)selection for multi-hop U2N relay Qualcomm Incorporated discussion NR\_SL\_relay\_multihop-Core

[R2-2502468](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502468.zip) Discussion on relay discovery and relay (re)selection Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502497](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502497.zip) Multi-hop relay selection/re-selection Sony discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502558](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502558.zip) Discovery and Relay (Re)Selection for Multi-hop U2N Relays InterDigital discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502609](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502609.zip) Relay discovery and (re)selection for multi-hop Relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502624](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502624.zip) Relay (re)selection under multihop relay Kyocera discussion

[R2-2502693](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502693.zip) Discussion on the discovery and relay (re)selection for multi-hop U2N relay LG Electronics Inc. discussion Rel-19

[R2-2502777](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502777.zip) Considerations on relay discovery and (re)selection Samsung discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502829](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502829.zip) One remaining issue on multi-hop U2N Relay Discovery message forwarding for model B ASUSTeK discussion Rel-19 NR\_SL\_relay\_multihop

### 8.13.3 Control Plane Procedures and SRAP impact

Contributions should focus on control plane procedures and can include SRAP impact and QoS handling to support additional hops.

Including outcome of email discussion [Post129][402][Relay] Control plane approach 2 impact (Apple/Ericsson)

[R2-2501801](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501801.zip) Control plane procedures of multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2501853](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501853.zip) Discussion on control plane procedures for multi-hop SL Relay ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2501861](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501861.zip) Control Plane aspects for Multi-hop Relay NEC discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2501876](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501876.zip) Discussion on the Control Plane Procedures CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502189](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502189.zip) Fast & Parallel RRC Establishment/Configuration for Multi-hop U2N relaying Apple, FirstNet, Ericsson, AT&T, Kyocera discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502190](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502190.zip) Text Proposal for TS 38.351 for fast SRB0/1 forwarding Apple discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502191](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502191.zip) Report of [POST129][402][Relay] Control plane approach 2 impact (Apple/Ericsson) Apple, Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502194](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502194.zip) Control plane and SRAP for multi-hop relay Nokia discussion NR\_SL\_relay\_multihop

[R2-2502232](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502232.zip) Discussion on control plane aspects for NR sidelink multi-hop relay China Telecom discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502362](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502362.zip) Control plane in Multi-hop relay Lenovo discussion Rel-19

[R2-2502379](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502379.zip) discussion on C-plane procedure for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502419](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502419.zip) Discussion on SRAP impact for baseline procedure vivo discussion Rel-19

[R2-2502432](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502432.zip) Discussion on control plane for NR sidelink multi-hop relay Spreadtrum, UNISOC discussion Rel-19

[R2-2502455](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502455.zip) Open issue for control plane Qualcomm Incorporated discussion NR\_SL\_relay\_multihop-Core

[R2-2502467](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502467.zip) Discussion on control plane procedures Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502559](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502559.zip) Control Plane Handling for Multi-hop U2N Relays InterDigital discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502610](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502610.zip) Control plane procedures for multi-hop relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502684](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502684.zip) Discussion on control plane procedure for SL relay KT Corp. discussion

[R2-2502692](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502692.zip) Discussion on the control plane procedure for multi-hop U2N relay LG Electronics Inc. discussion Rel-19

[R2-2502778](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502778.zip) Consideration on CP issues for multi-hop SL relay Samsung discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502830](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502830.zip) Issues on SRAP operations for supporting multi-hop L2 U2N Relay ASUSTeK discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2502939](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502939.zip) SRAP design for R19 multi-hop SL relaying Samsung R&D Institute UK discussion

### 8.13.4 Service continuity

First priority scenarios: (A) intra-gNB multi-hop indirect to direct path switch, (B) intra-gNB multi-hpo indirect to single-hop indirect path switch. Second priority scenarios: (C) intra-gNB direct to multi-hop indirect path switch, (D) intra-gNB single-hop indirect to multi-hop indirect path switch.

[R2-2501800](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501800.zip) Service continuity of multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2501855](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501855.zip) Discussion on Service continuity ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2501877](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501877.zip) Intra-gNB Service Continuity for Multi-hop U2N Relay CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2501891](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501891.zip) Considerations on Service Continuity of Multi-hop Relay NEC Corporation (ARIB) discussion Rel-19

=> Withdrawn

[R2-2501892](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501892.zip) Considerations on Service Continuity of Multi-hop Relay NEC discussion Rel-19

[R2-2502199](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502199.zip) Service continuity aspects of multi-hop relay Nokia discussion NR\_SL\_relay\_multihop

[R2-2502233](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502233.zip) Discussion on service continuity for multi-hop relay China Telecom discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502363](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502363.zip) Service continuity for Multi-hop system Lenovo discussion Rel-19

[R2-2502380](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502380.zip) discussion on service continuity for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502420](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502420.zip) Discussion on service continuity for scenario C and D vivo discussion Rel-19

[R2-2502456](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502456.zip) Service continuity discussion Qualcomm Incorporated discussion NR\_SL\_relay\_multihop-Core

[R2-2502611](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502611.zip) Discussion on service continuity for Multi-hop Relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2502626](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502626.zip) Service Continuity for U2N multihop relay Kyocera discussion

[R2-2502675](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502675.zip) Service Continuity for Multi-Hop Relays Ericsson discussion Rel-19

[R2-2502694](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502694.zip) Discussion on service continuity for multi-hop U2N relay LG Electronics Inc. discussion Rel-19

## 8.14 Additional topological enhancements

(NR\_WAB\_5GFemto; leading WG: RAN3; REL-19; WID RP-243009)

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

Work on this WI will only be triggered by LS from RAN3 so work on this WI is not expected to start RAN2#127bis or RAN2#128.

No contributions expected for this meeting

[R2-2501725](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501725.zip) Reply LS on Support of UE move between CAG cell of 5G Femto and CSG cell (R3-244830; contact: Ericsson) RAN3 LS in Rel-19 FS\_NR\_WAB\_5GFemto To:SA2 Cc:RAN2

[R2-2501732](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501732.zip) Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (Additional ULI) (R3-250901; contact: ZTE) RAN3 LS in Rel-19 FS\_VMR\_Ph2, NR\_WAB\_5GFemto-Core To:SA2 Cc:RAN2

[R2-2501733](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501733.zip) Reply LS on Support of Location Service Involving WAB-Nodes (R3-250902; contact: Huawei) RAN3 LS in Rel-19 VMR\_Ph2, NR\_WAB\_5GFemto-Core To:SA2 Cc:RAN2

[R2-2501749](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501749.zip) Reply LS on Clarification regarding definition of 5G NR femto ownership (S2-2411241; contact: LGE) SA2 LS in Rel-19 FS\_5G\_Femto\_Sec, 5G\_Femto To:SA3 Cc:RAN2, RAN3

[R2-2501750](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501750.zip) Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (Access Control and Additional ULI) (S2-2501324; contact: Ericsson) SA2 LS in Rel-19 FS\_VMR\_Ph2, VMR\_Ph2 To:RAN3 Cc:RAN2

[R2-2501751](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501751.zip) Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (MWAB mobility) (S2-2501336; contact: Nokia) SA2 LS in Rel-19 VMR\_Ph2 To:RAN3 Cc:RAN2

[R2-2501755](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501755.zip) LS on NR Femto node shared by PLMN and PNI-NPN (S2-2502787; contact: LGE) SA2 LS in Rel-19 5G\_Femto, NR\_WAB\_5GFemto-Core, eNPN To:RAN3 Cc:RAN2

## 8.15 NavIC L1 SPS A-GNSS support

(LCS\_NAVIC\_L1\_SPS\_NR\_LTE-Core; leading WG: RAN2; REL-19; WID RP-243247[to be updated after RAN#107])

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

No input is expected on this agenda item for RAN2#129bis

## 8.16 BDS B2b in A-GNSS

LCS\_BDS\_B2b\_LTE\_NR; leading WG: RAN2; REL-19; WID RP-242459[to be updated after RAN#107])

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

No input is expected on this agenda item for RAN2#129bis

## 8.17 IoT-NTN TDD mode

(IoT\_NTN\_TDD; leading WG: RAN1; REL-19; WID RP-243293)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

[R2-2501780](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501780.zip) Discussion on RAN2 Imapcts of IoT-NTN TDD mode vivo discussion Rel-19 IoT\_NTN\_TDD-Core

[R2-2501970](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501970.zip) Discussion on RAN2 impacts of IoT-NTN TDD Huawei, HiSilicon discussion Rel-19 IoT\_NTN\_TDD

[R2-2501988](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501988.zip) Work plan for WID: introduction of IoT-NTN TDD mode Iridium Satellite LLC Work Plan Rel-19 IoT\_NTN\_TDD

[R2-2501989](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501989.zip) Discussion on IoT-NTN TDD mode Iridium Satellite LLC discussion Rel-19 IoT\_NTN\_TDD

[R2-2502059](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502059.zip) Discussion on support of NB-IoT NTN TDD CATT discussion Rel-19

[R2-2502071](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502071.zip) Discussion on IoT NTN TDD mode OPPO discussion Rel-19 IoT\_NTN\_TDD

[R2-2502100](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502100.zip) Discussion on support of TDD mode for IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_TDD

[R2-2502193](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502193.zip) Discussion on support of IoT-NTN TDD mode THALES discussion Rel-19 IoT\_NTN\_TDD-Core

[R2-2502358](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502358.zip) Discussion on TDD support in IoT NTN Lenovo discussion Rel-19

[R2-2502459](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502459.zip) On RAN2 aspect of IoT NTN TDD Samsung discussion Rel-19 IoT\_NTN\_TDD

[R2-2502517](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502517.zip) Discussion on supporting IoT NTN TDD mode Apple discussion Rel-19 IoT\_NTN\_TDD

[R2-2502527](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502527.zip) Consideration on IoT-NTN TDD mode ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_TDD

[R2-2502538](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502538.zip) Discussion on the IoT NTN TDD mode Xiaomi discussion

[R2-2502560](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502560.zip) On SI scheduling, H-SFN change and postponing impacts in IoT-NTN TDD mode Nordic Semiconductor ASA discussion Rel-19

[R2-2502621](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502621.zip) Indication of IoT-NTN TDD Mode Support Toyota ITC discussion Rel-19 IoT\_NTN\_TDD

[R2-2502658](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502658.zip) Discussion on new NB-IoT NTN TDD mode Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_TDD

[R2-2502703](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502703.zip) Support of IoT-NTN TDD mode CMCC discussion Rel-19 IoT\_NTN\_TDD

## 8.18 TEI19

Time budget: 1 TU

Tdoc Limitation: 1 tdoc for new proposals and 1 tdoc for old proposals.

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#129bis.

**BWP restriction**

[R2-2501869](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501869.zip) Handling downlink BWP restriction for MT-SDT Samsung discussion Rel-19 TEI19

[R2-2501991](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501991.zip) BWP restriction in MT-SDT LG Electronics Inc. discussion Rel-19 TEI19

[R2-2502209](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502209.zip) SDT on separate BWP ZTE Corporation, Sanechips discussion

[R2-2502214](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502214.zip) Addition of band specific number of Rx branches supported by a UE Nokia CR Rel-19 38.331 18.5.1 5293 - B TEI19, NR\_redcap-Core, NR\_redcap\_enh-Core, NR\_XR\_enh-Core

[R2-2502403](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502403.zip) BWP restriction for SDT NEC discussion Rel-19 TEI19

[R2-2502498](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502498.zip) Removing initial DL BWP restriction for MT-SDT Sony discussion Rel-19 TEI19

**[ANR\_HSDN]**

[R2-2502783](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502783.zip) Introduction of ANR reporting of HSDN cells [ANR\_HSDN] Huawei, HiSilicon, CMCC, China Unicom, China Telecom, CATT, NTT DoCoMo, Samsung CR Rel-19 38.331 18.5.1 5318 - B TEI19

[R2-2502784](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502784.zip) Introduction of ANR reporting of HSDN cells [ANR\_HSDN] Huawei, HiSilicon, CMCC, China Unicom, China Telecom, CATT, NTT DoCoMo, Samsung CR Rel-19 38.306 18.5.0 1264 - B TEI19

[R2-2502785](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502785.zip) Introduction of ANR reporting of HSDN cells [ANR\_HSDN] Huawei, HiSilicon, CMCC, China Unicom, China Telecom, CATT, NTT DoCoMo, Samsung CR Rel-19 36.331 18.5.0 5110 - B TEI19

[R2-2502786](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502786.zip) Introduction of ANR reporting of HSDN cells [ANR\_HSDN] Huawei, HiSilicon, CMCC, China Unicom, China Telecom, CATT, NTT DoCoMo, Samsung CR Rel-19 36.306 18.4.0 1911 - B TEI19

**UE aggregation**

**Missing TEI identifiers**

[R2-2502734](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502734.zip) Discussion on UE aggregation enhancement CMCC, ZTE, MediaTek, vivo, Huawei, CATT, Meta, Nokia, Nokia Shanghai Bell, xiaomi, Spreadtrum, UNISOC discussion Rel-19 TEI19

[R2-2502735](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502735.zip) Corrections to TS 38.300 on multi-path relay enhancement CMCC, ZTE, MediaTek, vivo, Huawei, CATT, Meta, Nokia, Nokia Shanghai Bell, xiaomi, Spreadtrum, UNISOC draftCR Rel-19 38.300 18.5.0 TEI19

[R2-2502736](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502736.zip) Corrections to TS 38.331 on multi-path relay enhancement CMCC, ZTE, MediaTek, vivo, Huawei, CATT, Meta, Nokia, Nokia Shanghai Bell, xiaomi, Spreadtrum, UNISOC draftCR Rel-19 38.331 18.5.1 TEI19

[R2-2502737](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502737.zip) Corrections to TS 38.306 on multi-path relay enhancement CMCC, ZTE, MediaTek, vivo, Huawei, CATT, Meta, Nokia, Nokia Shanghai Bell, xiaomi, Spreadtrum, UNISOC draftCR Rel-19 38.306 18.5.0 TEI19

*MPS*

[R2-2502914](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502914.zip) Discussion on RNA update for MPS [MPS\_RNAU\_ResumeCause] Nokia discussion

[R2-2502575](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502575.zip) MPS at gNB overload Ericsson discussion Rel-19 TEI19

*UE Radio Paging Capability*

[R2-2502576](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502576.zip) UE Radio Paging Capability Ericsson discussion Rel-19 TEI19

Simultaneous RAN and CN paging

[*R2-2502616*](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502616.zip) *Discussion on simultaneous RAN and CN paging Nokia discussion*

[R2-2502619](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502619.zip) Simultaneous RAN and CN paging Nokia CR Rel-19 38.331 18.5.1 5311 - F TEI19

**RAT restrictions**

[R2-2502672](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502672.zip) Discussion on RAN impact of UE usage of RAT restrictions Philips International B.V., NEC discussion Rel-19 TEI19, ECRATU

**NTN related**

*To be handled in NTN breakout session*

[R2-2501971](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501971.zip) ETWS geo-fencing for eMTC NTN and for TN Huawei, HiSilicon, China Southern Power Grid, Turkcell discussion Rel-19 TEI19

[R2-2502689](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502689.zip) Redirection to IoT NTN and NR NTN Samsung discussion Rel-19 TEI19

[R2-2501781](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501781.zip) Introduction of LTE TN to NB-IoT NTN Mobility UE Capability vivo, Samsung, Google, THALES, MediaTek Inc. draftCR Rel-19 36.306 18.4.0 TEI19

[R2-2502803](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502803.zip) 36331CR for the inclusion of NB-IoT satellite information in E-UTRAN Google, Samsung, vivo, THALES draftCR Rel-19 36.331 18.5.0 B TEI19

[R2-2502804](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502804.zip) 36300CR for the inclusion of NB-IoT satellite information in E-UTRAN Google, Samsung, vivo, THALES draftCR Rel-19 36.300 18.4.0 B TEI19

**Positioning**

To be handled in positioning breakout session

[R2-2501714](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501714.zip) LS on non-RedCap UE UL SRS frequency hopping for positioning (R1-2501573; contact: ZTE) RAN1 LS in Rel-19 TEI19 To:RAN2

[R2-2502085](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502085.zip) Discussion on the higher layer spec impact of positioning SRS FH for non-RedCap UE ZTE Corporation discussion Rel-19 TEI19

[R2-2502086](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502086.zip) Introduction of the positioning SRS FH for non-RedCap UE in 38305 ZTE Corporation, Ericsson CR Rel-19 38.305 18.5.0 0185 - B TEI19

[R2-2502087](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502087.zip) Introduction on the SRS frequency hopping for non-RedCap UE in 38331 [PosSrsFH-nonRedCap] ZTE Corporation, Ericsson CR Rel-19 38.331 18.5.1 5290 - B TEI19

[R2-2502260](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502260.zip) Draft reply LS on the non-RedCap UE UL SRS frequency hopping for positioning ZTE Corporation LS out Rel-19 TEI19 To:RAN1, RAN3

[R2-2502074](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502074.zip) Introduction of control parameters for on-demand posSIB request [PosOdSIB-Req] Huawei, HiSilicon, Ericsson CR Rel-19 38.331 18.5.1 5288 - B TEI19

[R2-2502075](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502075.zip) Introduction of control parameters for on-demand posSIB request [PosOdSIB-Req] Huawei, HiSilicon, Ericsson CR Rel-19 38.306 18.5.0 1248 - B TEI19

[R2-2502076](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502076.zip) Introduction of control parameters for on-demand posSIB request [PosOdSIB-Req] Huawei, HiSilicon, Ericsson CR Rel-19 38.300 18.5.0 0978 - B TEI19

[R2-2502077](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502077.zip) Introduction of control parameters for on-demand posSIB request [PosOdSIB-Req] Huawei, HiSilicon, Ericsson CR Rel-19 38.305 18.5.0 0184 - B TEI19

## 8.19 NR Others

Tdoc limit: 2

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-19 specific WIs/SIs that has no RAN WI.

Additional tdocs on top of limit can be allowed for co-sourced contribution with 3 or more companies

[R2-2501718](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501718.zip) Reply LS on Ku band numerology (R1-2501609; contact: Eutelsat) RAN1 LS in Rel-19 NR\_NTN\_Ku\_bands-Core To:RAN4 Cc:RAN, RAN2

[R2-2501759](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501759.zip) Reply LS on AI/ML UE sided data collection (S5-250828; contact: Intel, NEC, Huawei) SA5 LS in Rel-19 AIML\_MGT\_Ph2 To:RAN, RAN2 Cc:SA, SA2, SA3

[R2-2501760](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501760.zip) LS on Vendor Specific Trace Record (S5-251089; contact: Ericsson) SA5 LS in Rel-19 TraceQoE\_OAM To:RAN3 Cc:RAN2

[R2-2501910](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501910.zip) Discussion on the number of SDT UEs (LS S5-250827) CATT discussion Rel-19 PM\_KPI\_5G\_Ph4

[R2-2501911](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501911.zip) Discussion on signalling for 7 MHz Channel Bandwidth (LS R4-2503017) CATT discussion Rel-19 NR\_FR1\_7MHz\_BW-Core

[R2-2501972](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501972.zip) Discussion on CSSF optimization for NR RRM Phase 5 vivo discussion Rel-19 NR\_RRM\_Ph5-Core

[R2-2502313](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502313.zip) RAN2 impact on CSSF optimization Apple, Ericsson, CATT discussion Rel-19 NR\_RRM\_Ph5-Core

[R2-2502569](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502569.zip) Introduction of 7MHz channel bandwidth Ericsson, T-Mobile CR Rel-17 38.306 17.12.0 1257 - B NR\_FR1\_7MHz\_BW-Core, TEI17

[R2-2502570](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502570.zip) Introduction of 7MHz channel bandwidth Ericsson, T-Mobile CR Rel-18 38.306 18.5.0 1258 - A NR\_FR1\_7MHz\_BW-Core, TEI18

[R2-2502571](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502571.zip) Introduction of 7MHz channel bandwidth Ericsson, T-Mobile CR Rel-17 38.331 17.12.0 5307 - B NR\_FR1\_7MHz\_BW-Core, TEI17

[R2-2502572](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502572.zip) Introduction of 7MHz channel bandwidth Ericsson, T-Mobile CR Rel-18 38.331 18.5.1 5308 - A NR\_FR1\_7MHz\_BW-Core, TEI18

[R2-2502635](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502635.zip) Discussion on 7MHz bandwidth capabilities Nokia discussion Rel-19 NR\_FR1\_7MHz\_BW-Core

[R2-2502809](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502809.zip) RAN2 impacts for 7 MHz Channel Bandwidth Huawei, HiSilicon discussion Rel-19 NR\_FR1\_7MHz\_BW-Core

[R2-2502869](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502869.zip) Consideration on Supporting 7M Channel Bandwidth ZTE Corporation discussion Rel-19 NR\_FR1\_7MHz\_BW-Core

[R2-2501739](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501739.zip) LS on CSSF optimization for NR RRM Phase 5 (R4-2502662; contact: Apple) RAN4 LS in Rel-19 NR\_RRM\_Ph5-Core To:RAN2

[R2-2501742](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501742.zip) LS on switching periods for low-low band switching (R4-2502877; contact: AT&T) RAN4 LS in Rel-19 NR\_LBCA\_Sw-Core To:RAN1 Cc:RAN2

[R2-2501744](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501744.zip) LS on Signalling for 7 MHz Channel Bandwidth (R4-2503017; contact: T-Mobile) RAN4 LS in Rel-19 NR\_FR1\_7MHz\_BW-Core To:RAN2 Cc:RAN3

[R2-2501753](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501753.zip) Reply LS on Satellite IDs for store-and-forward operation (S2-2502450; contact: CICT Mobile, CATT) SA2 LS in Rel-19 5GSAT\_Ph3-ARC To:RAN2 Cc:RAN3

[R2-2501758](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2501758.zip) Reply to RAN2 LS on Number of UEs in RRC\_INACTIVE state with data transmission (S5-250827; contact: China Telecom) SA5 LS in Rel-19 PM\_KPI\_5G\_Ph4 To:RAN2 Cc:RAN3

[R2-2502248](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502248.zip) Introduction of number of UEs in RRC\_INACTIVE state with data transmission [KPI\_SDT\_SA5] China Telecom, Huawei, HiSilicon, ZTE Corporation, Sanechips, CATT CR Rel-19 38.314 18.0.0 0034 - B TEI19

# 9 Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

## 9.1 Session on V2X/SL, R19 NES and MOB

[R2-2502981](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502981.zip) Report from session on V2X/SL, R19 NES and MOB Vice Chairman (Samsung) report

## 9.2 Session on R18 MIMO, R19 MIMO, R19 LP-WUS, and SBFD

[R2-2502982](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502982.zip) Rel-18 MIMO, Rel-19 MIMO, LPWUS, and SBFD Vice Chairman (CATT) report

## 9.3 Session on NR NTN and IoT NTN

[R2-2502983](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502983.zip) Report from session on NR NTN and IoT NTN Session chair (ZTE) report

## 9.4 Session on positioning and sidelink relay

[R2-2502984](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502984.zip) Report from session on positioning and sidelink relay Session chair (MediaTek) report

## 9.5 Session on R18 MBS, R18 QoE and R19 XR

[R2-2502985](C:\\Users\\panidx\\OneDrive - InterDigital Communications, Inc\\Documents\\3GPP RAN\\TSGR2_129b\\Docs\\R2-2502985.zip) Report from session on R18 MBS, R18 QoE and R19 XR Session chair (Huawei) report

## 9.6 Session on maintenance and SON/MDT

[R2-2502986](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_129b\Docs\R2-2502986.zip) Report from session on maintenance and SON/MDT Session chair (Ericsson) report