3GPP TSG-RAN WG2 Meeting #129 [R2-25xxxxx](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-25xxxxx.zip)

Athens, Greece, Feb. 17th – 21st, 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

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| --- |
| 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

R2-2500001 Agenda for RAN2#129 Chair agenda

## 2.2 Approval of the report of the previous meeting

[R2-2500002](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500002.zip) RAN2#128 Meeting Report MCC report Late

## 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#129 deadlines:

* Tdoc Submission deadline: Feb. 7th, 1000 UTC

## 2.5 Others

**Rapporteur Changes**

**Spec Former Rapporteur Proposed New Rapporteur**

38.306 ZiYi Li (Intel) ZiYi Li (Xiaomi)

38.355 Yi Guo (Intel) Yi Guo(Xiaomi)

[R2-2500003](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500003.zip) RAN2 Handbook MCC discussion

[R2-2501458](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501458.zip) Guidelines on writing a CR MCC

For CR coversheets, the 3GPP website provides good advice in:

<https://www.3gpp.org/specifications-technologies/specifications-by-series/change-requests-step-by-step>

# 3 Incoming liaisons

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

[R2-2500005](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500005.zip) LS on draft-ietf-raw-technologies, "Reliable and Available Wireless Technologies" (contact: Huawei) IETF DetNet LS in To:RAN2, RAN3, SA2, SA3

# 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)

[R2-2500369](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500369.zip) Correction on MPDCCH parameter in PUR-Config ZTE Corporation, Sanechips, Ericsson, Huawei, HiSilicon CR Rel-16 36.331 16.18.0 5085 - F LTE\_eMTC5-Core

[R2-2500371](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500371.zip) Correction on MPDCCH parameter in PUR-Config ZTE Corporation, Sanechips, Ericsson, Huawei, HiSilicon CR Rel-17 36.331 17.11.0 5086 - A LTE\_eMTC5-Core

[R2-2500372](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500372.zip) Correction on MPDCCH parameter in PUR-Config ZTE Corporation, Sanechips, Ericsson, Huawei, HiSilicon CR Rel-18 36.331 18.4.0 5087 - A LTE\_eMTC5-Core

[R2-2500462](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500462.zip) Detection of consecutive HARQ feedback failures in NB-IoT NTN Google discussion Rel-17 36.321 LTE\_NBIOT\_eMTC\_NTN

[R2-2500938](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500938.zip) Clarification on Inclination value description THALES CR Rel-17 36.331 17.11.0 5091 - D LTE\_NBIoT\_eMTC\_NTN\_req-Core

[R2-2500956](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500956.zip) First reconfiguration after reestablishment with SN-terminated bearers Huawei, HiSilicon CR Rel-15 36.331 15.23.0 5094 - F NR\_newRAT-Core

[R2-2500957](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500957.zip) First reconfiguration after reestablishment with SN-terminated bearers Huawei, HiSilicon CR Rel-16 36.331 16.18.0 5095 - A NR\_newRAT-Core

[R2-2500958](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500958.zip) First reconfiguration after reestablishment with SN-terminated bearers Huawei, HiSilicon CR Rel-17 36.331 17.11.0 5096 - A NR\_newRAT-Core

[R2-2500959](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500959.zip) First reconfiguration after reestablishment with SN-terminated bearers Huawei, HiSilicon CR Rel-18 36.331 18.4.0 5097 - A NR\_newRAT-Core

[R2-2501114](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501114.zip) Correction on the UE behaviours upon setting CEF report Huawei, HiSilicon CR Rel-17 36.331 17.11.0 5098 - F eMDT\_UMTSLTE-Core, TEI17

[R2-2501115](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501115.zip) Correction on the UE behaviours upon setting CEF report Huawei, HiSilicon CR Rel-18 36.331 18.4.0 5099 - A eMDT\_UMTSLTE-Core, TEI17

[R2-2501146](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501146.zip) Clarification on the mapping of RSRP thresholds to CE levels MediaTek Inc. CR Rel-18 36.331 18.4.0 5100 - F LTE\_MTCe2\_L1-Core, NB\_IOT-Core, TEI18

## 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 NOTE: some agenda items have additional Tdoc limits.

In case a correction need to be reflected in both NR TS and LTE TS, the corrections should be submitted under one single AI (so the NR and LTE correction can be 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))

(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,)

(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 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

[R2-2500116](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500116.zip) Correction on L3 beam filtering OPPO, Apple, Nokia (Rapporteur) CR Rel-15 38.300 15.19.0 0950 - F NR\_newRAT-Core

[R2-2500117](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500117.zip) Correction on L3 beam filtering OPPO, Apple, Nokia (Rapporteur) CR Rel-16 38.300 16.18.0 0951 - A NR\_newRAT-Core

[R2-2500118](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500118.zip) Correction on L3 beam filtering OPPO, Apple, Nokia (Rapporteur) CR Rel-17 38.300 17.11.0 0952 - A NR\_newRAT-Core

[R2-2500119](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500119.zip) Correction on L3 beam filtering OPPO, Apple, Nokia (Rapporteur) CR Rel-18 38.300 18.4.0 0953 - A NR\_newRAT-Core

[R2-2500984](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500984.zip) Clarification on support of BFD-BFR on PSCell Ericsson, ZTE Corporation CR Rel-15 37.340 15.16.0 0411 - F NR\_newRAT-Core

[R2-2500985](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500985.zip) Clarification on support of BFD-BFR on PSCell Ericsson, ZTE Corporation CR Rel-16 37.340 16.13.0 0412 - A NR\_newRAT-Core

[R2-2500986](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500986.zip) Clarification on support of BFD-BFR on PSCell Ericsson, ZTE Corporation CR Rel-17 37.340 17.8.0 0413 - A NR\_newRAT-Core

[R2-2500987](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500987.zip) Clarification on support of BFD-BFR on PSCell Ericsson, ZTE Corporation CR Rel-18 37.340 18.4.0 0414 - A NR\_newRAT-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

[R2-2500515](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500515.zip) Corrections on PDCCH monitoring Samsung (Rapporteur), Huawei, HiSilicon, Ericsson CR Rel-16 38.321 16.18.0 2027 - F NR\_2step\_RACH-Core

=> Revised in [R2-2501171](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501171.zip)

[R2-2501171](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501171.zip) Corrections on PDCCH monitoring Samsung (Rapporteur), Huawei, HiSilicon, Ericsson, Sharp CR Rel-16 38.321 16.18.0 2027 1 F NR\_2step\_RACH-Core [R2-2500515](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500515.zip)

[R2-2500516](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500516.zip) Corrections on PDCCH monitoring Samsung (Rapporteur), Ericsson CR Rel-17 38.321 17.11.0 2028 - A NR\_2step\_RACH-Core, NR\_FeMIMO-Core, NR\_IAB\_enh-Core

=> Revised in [R2-2501172](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501172.zip)

[R2-2501172](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501172.zip) Corrections on PDCCH monitoring Samsung (Rapporteur), Huawei, HiSilicon, Ericsson, Sharp CR Rel-17 38.321 17.11.0 2028 1 A NR\_2step\_RACH-Core, NR\_FeMIMO-Core, NR\_IAB\_enh-Core [R2-2500516](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500516.zip)

[R2-2500517](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500517.zip) Corrections on PDCCH monitoring Samsung (Rapporteur), Huawei, HiSilicon, Ericsson CR Rel-18 38.321 18.4.0 2029 - A NR\_2step\_RACH-Core, NR\_FeMIMO-Core, NR\_IAB\_enh-Core, NR\_SL\_enh2-Core, NR\_cov\_enh2-Core

=> Revised in [R2-2501173](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501173.zip)

[R2-2501173](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501173.zip) Corrections on PDCCH monitoring Samsung (Rapporteur), Huawei, HiSilicon, Ericsson, Sharp CR Rel-18 38.321 18.4.0 2029 1 A NR\_2step\_RACH-Core, NR\_FeMIMO-Core, NR\_IAB\_enh-Core, NR\_SL\_enh2-Core, NR\_cov\_enh2-Core [R2-2500517](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500517.zip)

#### 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.

[R2-2500713](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500713.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-15 38.331 15.28.0 5220 - F NR\_newRAT-Core

[R2-2500786](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500786.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-16 38.331 16.19.0 5226 - A NR\_newRAT-Core

[R2-2500787](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500787.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-17 38.331 17.11.0 5227 - A NR\_newRAT-Core

[R2-2500788](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500788.zip) Clarification on RRC procedure delay for BWP switching Samsung CR Rel-18 38.331 18.4.0 5228 - A NR\_newRAT-Core

[R2-2500901](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500901.zip) Correction on sidelink RRC specification ZTE Corporation, Sanechips CR Rel-16 38.331 16.19.0 5239 - F 5G\_V2X\_NRSL-Core

[R2-2500902](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500902.zip) Correction on sidelink RRC specification ZTE Corporation, Sanechips CR Rel-17 38.331 17.11.0 5240 - A 5G\_V2X\_NRSL-Core

[R2-2500903](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500903.zip) Correction on sidelink RRC specification ZTE Corporation, Sanechips CR Rel-18 38.331 18.4.0 5241 - A 5G\_V2X\_NRSL-Core

[R2-2501098](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501098.zip) Discussion on change of si-SchedulingInfo for SIB6, SIB7 and SIB8 vivo discussion Rel-15

[R2-2501099](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501099.zip) Clarification on change of si-SchedulingInfo for SIB6, SIB7 and SIB8 (R15) vivo CR Rel-15 38.331 15.28.0 5256 - F NR\_newRAT-Core

[R2-2501100](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501100.zip) Clarification on change of si-SchedulingInfo for SIB6, SIB7 and SIB8 (R16) vivo CR Rel-16 38.331 16.19.0 5257 - A NR\_newRAT-Core

[R2-2501101](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501101.zip) Clarification on change of si-SchedulingInfo for SIB6, SIB7 and SIB8 (R17) vivo CR Rel-17 38.331 17.11.0 5258 - A NR\_newRAT-Core

[R2-2501102](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501102.zip) Clarification on change of si-SchedulingInfo for SIB6, SIB7 and SIB8 (R18) vivo CR Rel-18 38.331 18.4.0 5259 - A NR\_newRAT-Core

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

[R2-2500445](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500445.zip) Correction on the mandatory features for IAB-MT ZTE Corporation, Sanechips, Qualcomm, Ericsson, Xiaomi, Samsung CR Rel-16 38.306 16.19.0 1226 - F NR\_IAB-Core

[R2-2500446](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500446.zip) Correction on the mandatory features for IAB-MT ZTE Corporation, Sanechips, Qualcomm, Ericsson, Xiaomi, Samsung CR Rel-17 38.306 17.11.0 1227 - A NR\_IAB-Core, NR\_IAB\_enh-Core

[R2-2500447](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500447.zip) Correction on the mandatory features for IAB-MT and NCR-MT ZTE Corporation, Sanechips, Qualcomm, Ericsson, Xiaomi, Samsung CR Rel-18 38.306 18.4.0 1228 - F NR\_IAB-Core, NR\_IAB\_enh-Core, NR\_netcon\_repeater-Core

[R2-2500594](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500594.zip) Correction to simultaneous BWP switch across CCs Apple CR Rel-16 38.306 16.19.0 1230 - F TEI16, NR\_newRAT-Core, LTE\_NR\_DC\_CA\_enh-Core

[R2-2500595](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500595.zip) Correction to simultaneous BWP switch across CCs Apple CR Rel-17 38.306 17.11.0 1231 - A TEI16, NR\_newRAT-Core, LTE\_NR\_DC\_CA\_enh-Core

[R2-2500596](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500596.zip) Correction to simultaneous BWP switch across CCs Apple CR Rel-18 38.306 18.4.0 1232 - A TEI16, NR\_newRAT-Core, LTE\_NR\_DC\_CA\_enh-Core

[R2-2500931](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500931.zip) Further aspects to consider for UE capability segmentation in LTE Ericsson discussion

[R2-2501116](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501116.zip) Discussion on SRS capability reporting for SRS only cell Huawei, HiSilicon discussion Rel-15 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.

## 5.3 NR Positioning Support

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

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

(NR TEI16 Positioning)

Stage 2 corrections shall be discussed with the specification rapporteur (Sven Fischer sfischer@qti.qualcomm.com) before submission. Stage 2 CRs not discussed with the specification rapporteur will not be treated.

Tdoc Limitation: 1 tdoc

[R2-2500817](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500817.zip) Correction on SP positioning SRS (de-)activation MAC CE Huawei, HiSilicon CR Rel-16 38.321 16.18.0 2034 - F NR\_pos-Core

[R2-2500818](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500818.zip) Correction on SP positioning SRS (de-)activation MAC CE Huawei, HiSilicon CR Rel-17 38.321 17.11.0 2035 - A NR\_pos-Core

[R2-2500819](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500819.zip) Correction on SP positioning SRS (de-)activation MAC CE Huawei, HiSilicon CR Rel-18 38.321 18.4.0 2036 - 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))

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)

[R2-2500017](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500017.zip) Reply LS on UL RRC message segmentation for UECapabilityInformation (R3-247769; contact: Qualcomm) RAN3 LS in Rel-17 TEI17 To:RAN2

[R2-2500359](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500359.zip) Correction on the pre-condition of UE applying CN controlled subgroup ID for PEI in R17 vivo CR Rel-17 38.300 17.11.0 0955 - F NR\_UE\_pow\_sav-Core

[R2-2500360](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500360.zip) Correction on the pre-condition of UE applying CN controlled subgroup ID for PEI in R18 vivo CR Rel-18 38.300 18.4.0 0956 - A NR\_UE\_pow\_sav-Core

[R2-2500382](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500382.zip) Minor correction in the description of RAN Visible QoE Measurements Lenovo CR Rel-17 38.300 17.11.0 0958 - F NR\_QoE-Core

[R2-2500383](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500383.zip) Minor correction in the description of RAN Visible QoE Measurements Lenovo CR Rel-18 38.300 18.4.0 0959 - A NR\_QoE-Core

[R2-2500597](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500597.zip) Definition of NTN Cell Apple CR Rel-17 38.300 17.11.0 0961 - F NR\_NTN\_solutions-Core

[R2-2500598](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500598.zip) Definition of NTN Cell Apple CR Rel-17 36.300 17.9.0 1416 - F LTE\_NBIOT\_eMTC\_NTN

### 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).

[R2-2500941](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500941.zip) Clarification on Inclination value description THALES CR Rel-17 38.331 17.11.0 5247 - D NR\_NTN\_solutions-Core

[R2-2501175](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501175.zip) On association between RLC entities and PDCP entity Huawei, HiSilicon discussion Rel-17 TEI17, NR\_IIOT\_URLLC\_enh-Core

[R2-2501314](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501314.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE ZTE Corporation CR Rel-17 38.321 17.11.0 2050 - F NR\_FeMIMO-Core

[R2-2501315](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501315.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE ZTE Corporation CR Rel-18 38.321 18.4.0 2051 - A NR\_FeMIMO-Core

Withdrawn

[R2-2500940](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500940.zip) Clarification on Inclination value description THALES CR Rel-17 36.331 17.11.0 5093 - D NR\_NTN\_solutions-Core Withdrawn

[R2-2501239](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501239.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE R2 CR Rel-17 38.321 17.11.0 2041 - F NR\_FeMIMO-Core Withdrawn

[R2-2501298](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501298.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE R2 CR Rel-17 38.321 17.11.0 2044 - F NR\_FeMIMO-Core Withdrawn

[R2-2501240](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501240.zip) Correction on Spatial Relation Activation/Deactivation For PUCCH Repetition ZTE Corporation CR Rel-18 38.321 18.4.0 2042 - A NR\_FeMIMO-Core Withdrawn

[R2-2501299](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501299.zip) Correction on Spatial Relation Activation/Deactivation For PUCCH Repetition ZTE Corporation CR Rel-18 38.321 18.4.0 2045 - A NR\_FeMIMO-Core Withdrawn

[R2-2501302](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501302.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE R2 CR Rel-17 38.321 17.11.0 2047 - F NR\_FeMIMO-Core Withdrawn

[R2-2501303](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501303.zip) Correction on PUCCH spatial relation Activation/Deactivation for multiple TRP PUCCH repetition MAC CE R2 CR Rel-18 38.321 18.4.0 2048 - A NR\_FeMIMO-Core Withdrawn

### 6.1.3 Control Plane corrections

[R2-2500882](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500882.zip) Corrections to ntn-PolarizationUL Ericsson CR Rel-17 38.331 17.11.0 5237 - F NR\_NTN\_solutions-Core

[R2-2500883](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500883.zip) Corrections to ntn-PolarizationUL Ericsson CR Rel-18 38.331 18.4.0 5238 - A NR\_NTN\_solutions-Core, TEI18

#### 6.1.3.1 NR RRC

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

[R2-2500439](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500439.zip) Correction on SCS and CP configuration in RedCap-specific initial BWP ZTE Corporation, Sanechips CR Rel-17 38.331 17.11.0 5212 - F NR\_redcap-Core

[R2-2500440](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500440.zip) Correction on SCS and CP configuration in RedCap-specific initial BWP ZTE Corporation, Sanechips CR Rel-18 38.331 18.4.0 5213 - A NR\_redcap-Core

[R2-2500677](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500677.zip) Correction on implicit RLM for mTRP operation Ericsson CR Rel-17 38.331 17.11.0 5215 - F NR\_FeMIMO-Core

[R2-2500683](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500683.zip) Correction on implicit RLM for mTRP operation Ericsson CR Rel-18 38.331 18.4.0 5216 - A NR\_FeMIMO-Core

[R2-2500696](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500696.zip) Correction to smtc2 Huawei, HiSilicon CR Rel-17 38.331 17.11.0 5217 - F NR\_NTN\_solutions-Core

[R2-2500697](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500697.zip) Correction to smtc2 Huawei, HiSilicon CR Rel-18 38.331 18.4.0 5218 - A NR\_NTN\_solutions-Core

[R2-2500767](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500767.zip) Corrections to NTN SMTC configuration ZTE Corporation, Ericsson, Sanechips CR Rel-17 38.331 17.11.0 5223 - F NR\_NTN\_solutions-Core

[R2-2500768](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500768.zip) Corrections to NTN SMTC configuration ZTE Corporation, Ericsson, Sanechips CR Rel-18 38.331 18.4.0 5224 - A NR\_NTN\_solutions-Core

[R2-2500822](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500822.zip) Corrections on SRB4 Samsung, Ericsson CR Rel-17 38.331 17.11.0 5231 - F NR\_QoE-Core

[R2-2500880](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500880.zip) Miscellaneous non-controversial corrections Set XXIV Ericsson CR Rel-17 38.331 17.11.0 5235 - F NR\_newRAT-Core, TEI17

[R2-2500914](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500914.zip) Correction on UE capability check when logging last HO type Ericsson CR Rel-17 38.331 17.11.0 5245 - F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2500915](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500915.zip) Correction on UE capability check when logging last HO type Ericsson CR Rel-18 38.331 18.4.0 5246 - A NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2500960](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500960.zip) Configuration of UL power control in unified TCI framework Huawei, HiSilicon CR Rel-17 38.331 17.11.0 5250 - F NR\_FeMIMO-Core

[R2-2500961](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500961.zip) Configuration of UL power control in unified TCI framework Huawei, HiSilicon CR Rel-18 38.331 18.4.0 5251 - A NR\_FeMIMO-Core, NR\_Mob\_enh2-Core

[R2-2501112](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501112.zip) Discussion on logging suspension due to IDC Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

=> Revised in [R2-2501337](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501337.zip)

[R2-2501337](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501337.zip) Discussion on logging suspension due to IDC Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2501206](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501206.zip) Correction on the CSI-AperiodicTriggerStateList for aperiodic enhanced group-based beam reporting in R17 vivo CR Rel-17 38.331 17.11.0 5266 - F NR\_FeMIMO-Core

[R2-2501207](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501207.zip) Correction on the CSI-AperiodicTriggerStateList for aperiodic enhanced group-based beam reporting in R18 vivo CR Rel-18 38.331 18.4.0 5267 - A NR\_FeMIMO-Core

[R2-2501323](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501323.zip) Clarification for IDC solutions of logged MDT (Rel-17) OPPO, CMCC CR Rel-17 38.331 17.10.0 5109 1 F NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2501324](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501324.zip) Clarification for IDC solutions of logged MDT (Rel-18) OPPO, CMCC CR Rel-18 38.331 18.3.0 5110 1 A NR\_ENDC\_SON\_MDT\_enh-Core

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

[R2-2500120](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500120.zip) Left Issue on Maximum Number of UL Segments OPPO discussion Rel-17 TEI17 Late

=> Revised in [R2-2501327](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501327.zip)

[R2-2501327](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501327.zip) Left Issue on Maximum Number of UL Segments OPPO discussion Rel-17 TEI17 Late

[R2-2500384](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500384.zip) Corrections on network signalling of maximum number of UL segments [Max-RRC-SegUL] Lenovo CR Rel-17 36.331 17.11.0 5088 - F TEI17

[R2-2500385](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500385.zip) Corrections on network signalling of maximum number of UL segments [Max-RRC-SegUL] Lenovo CR Rel-18 36.331 18.4.0 5089 - A TEI17

[R2-2500711](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500711.zip) Clarification on FRx\_xDD Differentiation in per UE Capability for NTN bands vivo, Xiaomi CR Rel-17 38.306 17.11.0 1233 - F NR\_NTN\_solutions-Core

[R2-2500712](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500712.zip) Clarification on FRx\_xDD Differentiation in per UE Capability for NTN bands vivo, Xiaomi CR Rel-18 38.306 18.4.0 1234 - A NR\_NTN\_solutions-Core, NR\_NTN\_enh-Core

[R2-2501148](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501148.zip) UE Capability for SCell activation with TCI activation configuration MediaTek Inc. CR Rel-17 38.306 17.11.0 1238 - F LTE\_NR\_DC\_enh2-Core

[R2-2501149](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501149.zip) UE Capability for SCell activation with TCI activation configuration MediaTek Inc. CR Rel-18 38.306 18.4.0 1239 - A LTE\_NR\_DC\_enh2-Core

[R2-2501150](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501150.zip) UE Capability for SCell activation with TCI activation configuration MediaTek Inc. CR Rel-17 38.331 17.11.0 5261 - F LTE\_NR\_DC\_enh2-Core

[R2-2501151](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501151.zip) UE Capability for SCell activation with TCI activation configuration MediaTek Inc. CR Rel-18 38.331 18.4.0 5262 - A LTE\_NR\_DC\_enh2-Core

[R2-2501187](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501187.zip) Discussion on inconsistent reporting of NR SA capabilities Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_newRAT-Core, TEI17

[R2-2501188](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501188.zip) Clarification to UL RRC segmentation Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.11.0 5263 - F NR\_QoE-Core, TEI17

[R2-2501189](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501189.zip) Clarification to UL RRC segmentation Nokia, Nokia Shanghai Bell CR Rel-18 38.331 18.4.0 5264 - A NR\_QoE-Core, NR\_QoE\_enh-Core, TEI17

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

[R2-2500357](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500357.zip) Correction on the pre-condition of UE applying CN controlled subgroup ID for PEI in R17 vivo CR Rel-17 38.304 17.10.0 0425 - F NR\_UE\_pow\_sav-Core

[R2-2500358](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500358.zip) Correction on the pre-condition of UE applying CN controlled subgroup ID for PEI in R18 vivo CR Rel-18 38.304 18.4.0 0426 - A NR\_UE\_pow\_sav-Core

[R2-2500599](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500599.zip) Definition of NTN Cell Apple CR Rel-17 38.304 17.10.0 0427 - F NR\_NTN\_solutions-Core

[R2-2500600](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500600.zip) Definition of NTN Cell Apple CR Rel-17 36.304 17.5.0 0878 - F LTE\_NBIOT\_eMTC\_NTN

## 6.2 NR Sidelink relay

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

[R2-2500316](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500316.zip) RRC Connection Establishment for Multihop-Parallel Relay IIT, Kharagpur discussion Rel-17

[R2-2500325](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500325.zip) Data distribution and HARQ management for multihop-parallel relay topology in 5G NR IIT, Kharagpur discussion Rel-17

[R2-2500908](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500908.zip) Miscellaneous corrections for Rel-17 SL relay ZTE Corporation, Sanechips CR Rel-17 38.331 17.11.0 5243 - F NR\_SL\_relay-Core

[R2-2500909](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500909.zip) Miscellaneous corrections for Rel-17 SL relay ZTE Corporation, Sanechips CR Rel-18 38.331 18.4.0 5244 - A NR\_SL\_relay-Core

## 6.3 NR positioning enhancements

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

[R2-2500602](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500602.zip) Correction on spatial relation info in SP SRS activation deactivation MAC CE (R17) ZTE Corporation, Ericsson, Qualcomm, CATT, Samsung, vivo, Nokia, Xiaomi CR Rel-17 38.321 17.11.0 1977 2 F NR\_pos\_enh-Core [R2-2410985](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410985.zip)

[R2-2500603](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500603.zip) Correction on spatial relation info in SP SRS activation deactivation MAC CE (R18) ZTE Corporation, Ericsson, Qualcomm, CATT, Samsung, vivo, Nokia, Xiaomi CR Rel-18 38.321 18.4.0 1978 2 A NR\_pos\_enh-Core [R2-2410986](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410986.zip)

[R2-2500813](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500813.zip) Correction to BDS issue of data indication Huawei, HiSilicon CR Rel-17 37.355 17.9.0 0546 - F NR\_pos\_enh-Core

[R2-2500814](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500814.zip) Correction to BDS issue of data indication Huawei, HiSilicon CR Rel-18 37.355 18.4.0 0547 - A NR\_pos\_enh-Core

[R2-2500815](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500815.zip) Correction to PRS priority subset for DL-AoD Huawei, HiSilicon, Ericsson, VIVO, Samsung CR Rel-17 38.305 17.7.0 0182 - F NR\_pos\_enh-Core

[R2-2500816](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500816.zip) Correction to PRS priority subset for DL-AoD Huawei, HiSilicon, Ericsson, VIVO, Samsung CR Rel-18 38.305 18.4.0 0183 - A NR\_pos\_enh-Core

## 6.6 NR Sidelink enhancements

(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))

[R2-2500427](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500427.zip) Discussion on procedure descriptions of SL-DRX Apple, Ericsson, Qualcomm discussion Rel-17 NR\_SL\_enh-Core

[R2-2500428](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500428.zip) Correction on SL DRX procedure Apple, Ericsson CR Rel-17 38.321 17.11.0 2024 - F NR\_SL\_enh-Core

[R2-2500429](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500429.zip) Correction on SL DRX procedure Apple, Ericsson CR Rel-18 38.321 18.4.0 2025 - A NR\_SL\_enh-Core

[R2-2500430](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500430.zip) Correction on SL DRX configurations for GC/BC Apple, Ericsson CR Rel-17 38.331 17.11.0 5210 - F NR\_SL\_enh-Core

[R2-2500431](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500431.zip) Correction on SL DRX configurations for GC/BC Apple, Ericsson CR Rel-18 38.331 18.4.0 5211 - A NR\_SL\_enh-Core

[R2-2500872](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500872.zip) Correction to MAC on IUC Ericsson CR Rel-17 38.321 17.11.0 2037 - F NR\_SL\_enh-Core

[R2-2500873](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500873.zip) Correction to MAC on IUC Ericsson CR Rel-18 38.321 18.4.0 2038 - A NR\_SL\_enh-Core

# 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.

[R2-2500006](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500006.zip) LS on Rel-18 RAN1 UE features list for NR after RAN1#119 (R1-2410665; 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

[R2-2500266](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500266.zip) Introduction of Rel-18 UE feature list Xiaomi CR Rel-18 38.822 17.1.0 0014 - B NR\_MIMO\_evo\_DL\_UL-Core, NR\_pos\_enh2-Core, Netw\_Energy\_NR-Core, NR\_netcon\_repeater-Core, NR\_NTN\_enh-Core, NR\_Mob\_enh2-Core, NR\_UAV-Core, NR\_SL\_enh2-Core, NR\_redcap\_enh-Core, NR\_MC\_enh, NR\_XR\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_DSS\_enh, NR\_BWP\_wor, NR\_ENDC\_RF\_FR1\_enh2-Core, NR\_RF\_FR2\_req\_Ph3, NR\_channel\_raster\_enh, NR\_FR2\_multiRX\_DL-Core, NR\_RRM\_enh3-Core, NonCol\_intraB\_ENDC\_NR\_CA-Core, NR\_ATG-Core, NR\_cov\_enh2-Core, NR\_HST\_FR2\_enh, 4Rx\_low\_NR\_band\_handheld\_3Tx\_NR\_CA\_ENDC-Core, NR\_demod\_enh3, NR\_MG\_enh2-Core, NR\_pos\_enh2, NR\_SL\_relay\_enh-Core, NR\_IDC\_enh-Core, NR\_MBS\_enh-Core, NR\_mobile\_IAB-Core, NR\_ENDC\_SON\_MDT\_enh2-Core, NR\_QoE\_enh-Core, NR\_DualTxRx\_MUSIM-Core, NR\_MT\_SDT-Core, NR\_ATG, NR\_MBS\_enh, TEI18

=> Revised in [R2-2501237](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501237.zip)

[R2-2501237](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501237.zip) Introduction of Rel-18 UE feature list Xiaomi CR Rel-18 38.822 17.1.0 0014 1 B NR\_MIMO\_evo\_DL\_UL-Core, NR\_pos\_enh2-Core, Netw\_Energy\_NR-Core, NR\_netcon\_repeater-Core, NR\_NTN\_enh-Core, NR\_Mob\_enh2-Core, NR\_UAV-Core, NR\_SL\_enh2-Core, NR\_redcap\_enh-Core, NR\_MC\_enh, NR\_XR\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_DSS\_enh, NR\_BWP\_wor, NR\_ENDC\_RF\_FR1\_enh2-Core, NR\_RF\_FR2\_req\_Ph3, NR\_channel\_raster\_enh, NR\_FR2\_multiRX\_DL-Core, NR\_RRM\_enh3-Core, NonCol\_intraB\_ENDC\_NR\_CA-Core, NR\_ATG-Core, NR\_cov\_enh2-Core, NR\_HST\_FR2\_enh, 4Rx\_low\_NR\_band\_handheld\_3Tx\_NR\_CA\_ENDC-Core, NR\_demod\_enh3, NR\_MG\_enh2-Core, NR\_pos\_enh2, NR\_SL\_relay\_enh-Core, NR\_IDC\_enh-Core, NR\_MBS\_enh-Core, NR\_mobile\_IAB-Core, NR\_ENDC\_SON\_MDT\_enh2-Core, NR\_QoE\_enh-Core, NR\_DualTxRx\_MUSIM-Core, NR\_MT\_SDT-Core, NR\_ATG, NR\_MBS\_enh, TEI18 [R2-2500266](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500266.zip)

[R2-2500267](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500267.zip) Miscellaneous updates for SL relay and MC capabilities Xiaomi CR Rel-18 38.306 18.4.0 1225 - F NR\_MC\_enh, NR\_SL\_relay\_enh

[R2-2501226](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501226.zip) Consideration on the STx2P UE Feature (40-6-3a-1/40-6-3b-2) ZTE Corporation discussion Rel-18 NR\_MIMO\_evo\_DL\_UL

[R2-2501227](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501227.zip) [Draft] LS on the STx2P UE Feature ZTE Corporation LS out Rel-18 NR\_MIMO\_evo\_DL\_UL To:RAN1

### 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: 5*

#### 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*

[R2-2500409](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500409.zip) Correction on SR-triggered RACH regarding RACH-less HO ASUSTeK CR Rel-18 38.321 18.4.0 2022 - F NR\_NTN\_enh-Core

[R2-2500809](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500809.zip) Rapporteur CR for RACH-less LTM and HO [RACH-lessHO] Huawei, HiSilicon, CATT, Samsung, Qualcomm CR Rel-18 38.321 18.4.0 2033 - F TEI18, NR\_Mob\_enh2-Core, NR\_NTN\_enh-Core, NR\_mobile\_IAB-Core, NR\_SmallData\_INACTIVE-Core

=> Revised in [R2-2501247](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501247.zip)

[R2-2501247](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501247.zip) Rapporteur CR for RACH-less HO and LTM [RACH-lessHO] Huawei, HiSilicon, CATT, Qualcomm, Samsung CR Rel-18 38.321 18.4.0 2033 1 F NR\_SmallData\_INACTIVE-Core, TEI18, NR\_Mob\_enh2-Core, NR\_NTN\_enh-Core, NR\_mobile\_IAB-Core [R2-2500809](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500809.zip)

#### 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))

[R2-2500202](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500202.zip) Correction on the NCR-MT capability Huawei, HiSilicon, Samsung, Qualcomm Incorporated, Nokia, NEC, Fujitsu CR Rel-18 38.306 18.4.0 1224 - F NR\_netcon\_repeater-Core

[R2-2500441](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500441.zip) Views on SRB2 capability for NCR-MT and IAB-MT ZTE Corporation, Sanechips, Ericsson, Xiaomi, China Telecom discussion Rel-18 NR\_netcon\_repeater-Core

*Moved to Rel-15/16 CP section*

[R2-2500841](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500841.zip) Correction on the IAB-MT capability Huawei, HiSilicon, Samsung, Qualcomm Incorporated, Nokia, NEC, Fujitsu CR Rel-16 38.306 16.19.0 1235 - F NR\_IAB-Core

[R2-2500842](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500842.zip) Correction on the IAB-MT capability Huawei, HiSilicon, Samsung, Qualcomm Incorporated, Nokia, NEC, Fujitsu CR Rel-17 38.306 17.11.0 1236 - A NR\_IAB-Core

[R2-2500843](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500843.zip) Correction on the IAB-MT capability Huawei, HiSilicon, Samsung, Qualcomm Incorporated, Nokia, NEC, Fujitsu CR Rel-18 38.306 18.4.0 1237 - A NR\_IAB-Core

#### 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) )

[R2-2500231](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500231.zip) Clarification on the content of event Hy measurement report CATT, Qualcomm Inc., CMCC discussion Rel-18 NR\_UAV-Core

[R2-2500232](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500232.zip) Correction on the content of event Hy measurement report CATT, Qualcomm Inc., CMCC CR Rel-18 38.300 18.4.0 0954 - F NR\_UAV-Core

[R2-2500317](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500317.zip) Integration of Lifi Features in UAS for IoT Application IIT, Kharagpur discussion Late

#### 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))

[R2-2501279](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501279.zip) Correction on eDRX for UE in RRC\_INACTIVE ZTE Corporation, Sanechips CR Rel-18 38.304 18.4.0 0428 - F NR\_redcap\_enh-Core

#### 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))

[R2-2500555](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500555.zip) SSBLess handling Nokia discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2500693](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500693.zip) Discussion on servingCellMO for SSB-less Scell Huawei, HiSilicon, Apple, Qualcomm Incorporated discussion Rel-18 Netw\_Energy\_NR-Core

[R2-2500395](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500395.zip) Measurements on the carrier of SSB-less SCell NEC discussion

#### 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))

To be treated in breakout session

[R2-2500233](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500233.zip) Corrections on SPR determination CATT CR Rel-18 38.331 18.4.0 5203 - F NR\_ENDC\_SON\_MDT\_enh2-Core

[R2-2500849](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500849.zip) Miscellaneous corrections for SON/MDT Samsung, Ericsson CR Rel-18 38.331 18.4.0 5234 - 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))

[R2-2501224](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501224.zip) Correction to the MUSIM Timer Processing for the Reconfiguration with Sync Case ZTE Corporation CR Rel-18 38.331 18.4.0 5269 - F NR\_DualTxRx\_MUSIM-Core

[R2-2501268](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501268.zip) Corrections on MUSIM gap Samsung CR Rel-18 38.331 18.4.0 5271 - F 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))

To be treated in breakout session

[R2-2500009](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500009.zip) LS on Precoder Indication for 8-Port CG-PUSCH (R1-2410836; contact: Google) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL-Core To:RAN2

[R2-2500013](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500013.zip) LS on condition of applying both indicated TCI states for PDCCH reception (R1-2410916; contact: Samsung) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL-Core To:RAN2

[R2-2500107](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500107.zip) Introduction of RRC parameters for 8-port CG-PUSCH Google CR Rel-18 38.331 18.4.0 5199 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2500157](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500157.zip) Correction to applied TCI state for mTRP PDCCH reception Samsung CR Rel-18 38.331 18.4.0 5200 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2500410](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500410.zip) Correction on supporting 8Tx in MAC specification - method 2 ASUSTeK CR Rel-18 38.321 18.4.0 1990 1 F NR\_MIMO\_evo\_DL\_UL-Core [R2-2410174](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410174.zip)

[R2-2500709](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500709.zip) Remaining details on TDD UL/DL Configuration for Two TA Ericsson discussion Rel-18 NR\_MIMO\_evo\_DL\_UL-Core

[R2-2500710](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500710.zip) Correction on TDD UL/DL Configuration for Two TA Ericsson CR Rel-18 38.331 18.4.0 5219 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2500726](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500726.zip) Correction on Precoder Indication for 8-Port CG-PUSCH Ericsson CR Rel-18 38.331 18.4.0 5221 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2501117](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501117.zip) Correction on pusch-DMRS8Tx-r18 Huawei, HiSilicon CR Rel-18 38.331 18.4.0 5260 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2501238](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501238.zip) Clarification On SP CSI Reporting Activation/Deactivation For 8Tx R2 CR Rel-18 38.321 18.4.0 2040 - F NR\_MIMO\_evo\_DL\_UL-Core Withdrawn

[R2-2501297](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501297.zip) Clarification On SP CSI Reporting Activation/Deactivation For 8Tx R2 CR Rel-18 38.321 18.4.0 2043 - F NR\_MIMO\_evo\_DL\_UL-Core Withdrawn

[R2-2501301](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501301.zip) Clarification On SP CSI Reporting Activation/Deactivation For 8Tx R2 CR Rel-18 38.321 18.4.0 2046 - F NR\_MIMO\_evo\_DL\_UL-Core

[R2-2501313](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501313.zip) Clarification On SP CSI Reporting Activation/Deactivation For 8Tx ZTE Corporation CR Rel-18 38.321 18.4.0 2049 - F NR\_MIMO\_evo\_DL\_UL-Core

#### 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))

To be treated in breakout session

[R2-2500024](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500024.zip) LS on Update of Broadcast MCCH Information (R3-247892; contact: Nokia) RAN3 LS in Rel-18 NR\_MBS\_enh-Core To:RAN2

[R2-2500139](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500139.zip) Reply LS on Update of Broadcast MCCH Information Nokia Corporation LS out Rel-18 NR\_MBS\_enh-Core To:RAN3

[R2-2500205](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500205.zip) Clarification on the terminology of new cell Huawei, HiSilicon, Ericsson, Sharp, Samsung, Nokia, CATT, ZTE CR Rel-18 38.331 18.4.0 5202 - F NR\_MBS\_enh-Core

[R2-2500699](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500699.zip) On multicast MCCH information acquisition Samsung discussion Rel-18 38.331

[R2-2500829](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500829.zip) Clarification on determining the cell in which Multicast was configured in RRC\_CONNECTED ZTE Corporation, Ericsson, Nokia, Samsung CR Rel-18 38.331 18.4.0 5233 - F NR\_MBS\_enh-Core

[R2-2500830](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500830.zip) Discussion on the LS of Broadcast MCCH update ZTE Corporation, Sanechips discussion Rel-18 NR\_MBS\_enh-Core

#### 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))

To be treated in breakout session

[R2-2500022](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500022.zip) LS on QMC Coordination for RRC Segmentation in NR-DC (R3-247888; contact: ZTE) RAN3 LS in Rel-18 NR\_QoE\_enh-Core To:RAN2

[R2-2500054](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500054.zip) LS Reply on MBS Communication Service Type (S4-242151; contact: Huawei) SA4 LS in Rel-18 NR\_QoE\_enh-Core To:RAN3 Cc:RAN2, SA5

[R2-2500386](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500386.zip) Clean-up corrections on stage 2 description of QMC Lenovo CR Rel-18 38.300 18.4.0 0960 - F NR\_QoE\_enh-Core

[R2-2500546](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500546.zip) Discussion on RRC segmentation coordination for QoE reporting in NR-DC Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_QoE\_enh-Core

[R2-2500774](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500774.zip) Miscellaneous corrections for QoE report ZTE Corporation, Sanechips CR Rel-18 38.331 18.4.0 5225 - F NR\_QoE\_enh-Core

[R2-2500775](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500775.zip) Reply LS on QMC Coordination for RRC Segmentation in NR-DC ZTE Corporation, Sanechips discussion Rel-18 NR\_QoE\_enh-Core

[R2-2500828](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500828.zip) Corrections on SRB(s) for QoE measurements Samsung, Ericsson CR Rel-18 38.331 18.4.0 5232 - F NR\_QoE\_enh-Core

[R2-2500850](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500850.zip) Discussion on RRC issues for QoE Ericsson discussion Rel-18 NR\_QoE\_enh-Core

#### 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))

To be treated in breakout session

Reporting PDCP SN gap upon mobility

[R2-2500023](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500023.zip) LS on PDCP SN gap report handling during UE mobility (R3-247891; contact: Huawei) RAN3 LS in Rel-18 NR\_XR\_enh-Core To:RAN2

[R2-2500089](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500089.zip) Discussion on PDCP SN gaps during mobility Qualcomm Incorporated discussion Rel-18 NR\_XR\_enh-Core

Proposal 1. During mobility, UE is not required to re-submit PDCP SN gap report to the target gNB, if there is no new gap.

Proposal 2. Reply to RAN3 that Alternative 3 should not be supported.

[R2-2500895](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500895.zip) Discussion on PDCP SN gap report handling during UE mobility Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

Proposal 1: RAN2 to reply to RAN3 that alternative 3 is not preferred by RAN2 since it is not supported by the current specification and would impact UE behaviour, which may lead to inconsistent UE behaviour in the field.

[R2-2500491](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500491.zip) Discussion of RAN3 LS on PDCP SN Gap report handling Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

Proposal 1: As part of PDCP entity re-establishment, for AM DRBs configured by upper layers to send a PDCP SN gap report in the uplink, the transmitting PDCP entity shall re-transmit any previously (prior to the PDCP entity re-establishment) transmitted PDCP SN Gap report(s) for which the successful delivery has not been confirmed by lower layers.

Proposal 2: In a response LS to RAN3, RAN2 indicate that Alternative 3 can be supported and is the only one that works in all possible scenarios but point out that the problem only needs to be solved in Rel.19 because the problem is specific to DRBs mapped on RLC AM which are not yet optimized for XR in Rel.18.

Count value in PDCP SN gap report

[R2-2500181](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500181.zip) Further Discussion on the SN Gap Report CATT discussion Rel-18 NR\_XR\_enh-Core

Proposal 1: Suggest RAN2 to discuss whether the discarded PDCP SDU(s) which have been delivered by RLC to lower layers should be included in the PDCP SN gap report or not.

Proposal 2: RAN2 agrees that the discarded PDCP SDU(s) which have been delivered by RLC to lower layers should not be included in the PDCP SN gap report (Option1).

Proposal 3: In case Option2 is finally agreed, RAN2 should add a NOTE to further clarify how to determine the smallest COUNT value associated with the discarded PDCP SDU(s).

[R2-2500928](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500928.zip) Correction on PDCP SN Gap Report – Triggering Condition and Reporting Ericsson CR Rel-18 38.323 18.4.0 0146 - F NR\_XR\_enh-Core

[R2-2500492](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500492.zip) Analysis of current text on transmission of PDCP SN Gap report Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_XR\_enh-Core

[R2-2501011](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501011.zip) PDCP SN Gap report Corrections Nokia, Nokia Shanghai Bell CR Rel-18 38.323 18.4.0 0147 - F NR\_XR\_enh-Core

[R2-2501125](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501125.zip) Correction to PDCP SN gap report Huawei, HiSilicon CR Rel-18 38.323 18.4.0 0148 - F NR\_XR\_enh-Core

DSR and UAI

[R2-2500722](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500722.zip) Stage 2 correction on delay status reporting Lenovo, Nokia (rapporteur) CR Rel-18 38.300 18.4.0 0963 - F NR\_XR\_enh-Core

[R2-2500688](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500688.zip) Correction on RA Stopping for XR Samsung CR Rel-18 38.321 18.4.0 2032 - F NR\_XR\_enh-Core

[R2-2500896](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500896.zip) Correction on UE assistance information for XR Huawei, HiSilicon CR Rel-18 38.300 18.4.0 0964 - F NR\_XR\_enh-Core

[R2-2500894](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500894.zip) Discussion on DSR cancellation in DC Huawei, HiSilicon discussion Rel-18 NR\_XR\_enh-Core

#### 7.0.2.17 TEI18

[R2-2500388](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500388.zip) RAN Notification Area Update (RNA) for Multimedia Priority Service (MPS) Peraton Labs CR Rel-18 36.331 18.4.0 5090 - F TEI18

=> Revised in [R2-2501339R2](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501339R2.zip)-2501339 RAN Notification Area Update (RNA) for Multimedia Priority Service (MPS) Peraton Labs, AT&T, Verizon CR Rel-18 36.331 18.4.0 5090 1 F TEI18

[R2-2500389](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500389.zip) RAN Notification Area Update (RNA) for Multimedia Priority Service (MPS) Peraton Labs CR Rel-18 38.331 18.4.0 5207 - F TEI18

=> Revised in [R2-2501340](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501340.zip)

[R2-2501340](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501340.zip) RAN Notification Area Update (RNA) for Multimedia Priority Service (MPS) Peraton Labs, AT&T, Verizon CR Rel-18 38.331 18.4.0 5207 1 F TEI18

#### 7.0.2.18 Others

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

[R2-2500039](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500039.zip) Reply LS on carrierBandwidth configuration for less-than-5MHz carriers (R4-2420382; contact: ZTE) RAN4 LS in Rel-18 NR\_FR1\_lessthan\_5MHz\_BW To:RAN2 Cc:RAN1

[R2-2500881](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500881.zip) Miscellaneous non-controversial corrections Set XXIV Ericsson CR Rel-18 38.331 18.4.0 5236 - F NR\_newRAT-Core, TEI18

[R2-2501300](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501300.zip) Correction on number of Rx branches supported by a UE Nokia CR Rel-18 38.331 18.4.0 5273 - F NR\_redcap-Core, NR\_redcap\_enh-Core, NR\_XR\_enh-Core

## 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.

[R2-2500007](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500007.zip) Reply LS on CBR range (R1-2410708; contact: CATT) RAN1 LS in Rel-18 NR\_pos\_enh2-Core To:RAN2

[R2-2500276](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500276.zip) Corrections of SL CBR Range and level related parameters CATT, Ericsson CR Rel-18 38.331 18.4.0 5204 - F NR\_pos\_enh2-Core

### 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.

[R2-2500845](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500845.zip) Missing additional measurements for SL-TDOA and SL-TOA Qualcomm Incorporated CR Rel-18 38.355 18.4.0 0009 1 F NR\_pos\_enh2-Core [R2-2408513](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2408513.zip)

### 7.1.4 LPP corrections

Impact to 37.355.

### 7.1.5 RRC corrections

Impact to 38.331 and 38.306.

[R2-2500166](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500166.zip) RRC Sidelink Positioning Correction Fraunhofer IIS, Fraunhofer HHI, Ericsson CR Rel-18 38.331 18.4.0 5201 - F NR\_pos\_enh2-Core

[R2-2500277](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500277.zip) Corrections on activation of non-preconfigured SRS with the type of semi-persistent CATT, Ericsson, Qualcomm Incorporated, ZTE Corporation, Samsung CR Rel-18 38.331 18.4.0 5205 - F NR\_pos\_enh2-Core

[R2-2500812](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500812.zip) Correction to sidelinkUEInformation for SL-PRS shared resource pool Huawei, HiSilicon, Vivo CR Rel-18 38.331 18.4.0 5230 - F NR\_pos\_enh2

[R2-2500971](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500971.zip) Low Power High Accuracy Positioning Correction Ericsson CR Rel-18 38.331 18.4.0 5252 - F NR\_pos\_enh2-Core

### 7.1.6 MAC corrections

Impact to 38.321.

[R2-2500513](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500513.zip) Miscellaneous corrections on SL-PRS ASUSTeK CR Rel-18 38.321 18.4.0 2026 - F NR\_pos\_enh2-Core

[R2-2500545](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500545.zip) Correction on parameters for SL-PRS for configured grant Type 1 Sharp CR Rel-18 38.321 18.4.0 2030 - F NR\_pos\_enh2-Core

[R2-2500604](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500604.zip) Correction on SRS hopping in positioning ZTE Corporation CR Rel-18 38.321 18.4.0 2031 - F NR\_pos\_enh2

### 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.

[R2-2500035](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500035.zip) LS on UE capability for fast RRC processing for LTM (R4-2420125; contact: MediaTek) RAN4 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

[R2-2500151](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500151.zip) Rel-18 LTM issues MediaTek Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2500173](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500173.zip) Corrections related to random access for LTM Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2500228](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500228.zip) Correction on UE-based TA measurement CATT CR Rel-18 38.331 18.4.0 5206 - F NR\_Mob\_enh2-Core

[R2-2500333](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500333.zip) On the Remaining Rel-18 LTM Aspects and Corrections Nokia discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2500356](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500356.zip) Remaining issues on LTM and conditional reconfiguration vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2500374](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500374.zip) reverting variable for LTM Ofinno, LLC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2500540](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500540.zip) Removal of prerequisite of ltm-FastProcessingConfig-r18 MediaTek Inc. CR Rel-18 38.306 18.4.0 1229 - F NR\_Mob\_enh2-Core

[R2-2500728](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500728.zip) Discussion on LTM cell switch with CFRA Google Korea LLC discussion Rel-18 38.321 NR\_Mob\_enh2-Core

[R2-2500962](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500962.zip) Corrections to TS 38.300 and 38.331 for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2500963](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500963.zip) MAC CR rapporteur summary Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core Late

[R2-2500988](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500988.zip) Remaining issues on LTM Ericsson, MediaTek Inc. CR Rel-18 38.331 18.4.0 5254 - F NR\_Mob\_enh2-Core

[R2-2500989](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500989.zip) Discussion on the fast RRC processing for LTM Ericsson, MediaTek Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2500990](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500990.zip) Summary of RRC proposals for feMob Ericsson discussion Rel-18 NR\_Mob\_enh2-Core Late

[R2-2501196](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501196.zip) Correction on LTM cell switch execution procedure Sharp CR Rel-18 38.331 18.4.0 5265 - F NR\_Mob\_enh2-Core

[R2-2501294](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501294.zip) Corrections for mobility enhancements in stage-2 ZTE Corporation, Ericsson CR Rel-18 37.340 18.4.0 0404 5 F NR\_Mob\_enh2-Core [R2-2410801](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410801.zip)

=> Withdrawn

[R2-2501295](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501295.zip) Corrections on the field descriptions of selectedCondRRCReconfig and reportSlotConfig-r18 ZTE Corporation CR Rel-18 38.331 18.4.0 5272 - F NR\_Mob\_enh2-Core

[R2-2501325](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501325.zip) Corrections for mobility enhancements in stage-2 ZTE Corporation, Ericsson CR Rel-18 37.340 18.4.0 0415 - F NR\_Mob\_enh2-Core

## 7.3 IoT NTN enhancements

(IoT\_NTN\_enh-Core; leading WG: RAN1; REL-18; WID: [RP-223519](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223519.zip))

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

### 7.3.1 Organizational

LSs, rapporteur inputs.

Editorials/clarifications should not be included in any tdoc but sent to the WI spec rapporteurs

[R2-2500038](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500038.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

[R2-2500048](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500048.zip) Reply LS on UE Location Information for NB-IoT NTN (S2-2412665; contact Qualcomm) SA2 LS in Rel-18 IoT\_NTN\_enh-Core To:RAN2, RAN3 Cc:CT1

[R2-2500077](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500077.zip) Discussion on SA2 LS on UE Location Information for NB-IoT NTN vivo discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2500547](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500547.zip) On SA2 LS for coarse UE location reporting in NB-IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2501309](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501309.zip) Location information reporting for NB-IoT Ericsson discussion Rel-18 IoT\_NTN\_enh-Core

### 7.3.2 Corrections

Corrections for all specifications.

[R2-2500203](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500203.zip) Correction on drx-inactivityTimer Huawei, HiSilicon CR Rel-18 36.321 18.3.0 1589 - F IoT\_NTN\_enh-Core

[R2-2500939](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500939.zip) Clarification on Inclination value description THALES CR Rel-18 36.331 18.4.0 5092 - D IoT\_NTN\_enh-Core

[R2-2501217](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501217.zip) Correction on HARQ process Samsung CR Rel-18 36.321 18.3.0 1590 - F IoT\_NTN\_enh-Core

[R2-2501269](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501269.zip) Correction on GNSS procedure ZTE Corporation, Sanechips CR Rel-18 36.331 18.4.0 5101 - F IoT\_NTN\_enh-Core

## 7.4 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))

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

### 7.4.1 Organizational

LSs, rapporteur inputs.

Editorials/clarifications should not be included in any tdoc but sent to the WI spec rapporteurs

[R2-2500033](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500033.zip) LS on simultaneous operation between GNSS and NR NTN (R4-2419898; contact: Huawei) RAN4 LS in Rel-19 NR\_NTN\_enh-Core To:RAN2 Cc:RAN1

[R2-2500042](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500042.zip) Reply LS to RAN1 and RAN2 on F[R2-NTN](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-NTN.zip) inclusion to specifications (R4-2420476; contact: vivo) RAN4 LS in Rel-18 NR\_NTN\_enh-Core To:RAN1, RAN2

[R2-2501310](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501310.zip) Remaining open issues in NR NTN Ericsson discussion Rel-18 NR\_NTN\_enh-Core

### 7.4.2 Corrections

Corrections for all specifications.

[R2-2500078](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500078.zip) Discussion on RAN4 LS on Simultaneous Operation between GNSS and NR NTN vivo discussion Rel-18 NR\_NTN\_enh-Core

[R2-2500329](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500329.zip) On SSBs from Source and Target Satellite in Soft Switching with Resynchronization Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2500537](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500537.zip) Discussion on RAN4 LS on IDC issue in NTN Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh-Core

[R2-2500695](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500695.zip) Corrections to NTN mobility Huawei, HiSilicon CR Rel-18 38.300 18.4.0 0962 - F NR\_NTN\_enh-Core

[R2-2500769](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500769.zip) Consideration on VSAT UE capability report ZTE Corporation, Vivo, Sanechips discussion Rel-18 NR\_NTN\_enh-Core

[R2-2500942](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500942.zip) Clarification on Inclination value description THALES CR Rel-18 38.331 18.4.0 5248 - D NR\_NTN\_enh-Core

[R2-2501292](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501292.zip) Remaining open issues of satellite switch with resync Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core [R2-2410878](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410878.zip)

## 7.5 Enhanced NR Sidelink Relay

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

Time budget: 0TU

Tdoc Limitation: 1 tdoc

1 additional tdoc on top of the limit is allowed for co-sourced contribution with 3 or more companies.

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.

### 7.5.1 Organizational

Including incoming LSs and rapporteur inputs.

### 7.5.2 Stage 2 corrections

Impact to 38.300.

### 7.5.3 Control plane corrections (including UE capabilities)

Impact to 38.331, 38.304, and 38.306.

[R2-2500411](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500411.zip) Corrections to SidelinkUEInformationNR setting and E2E SL DRB release ASUSTeK CR Rel-18 38.331 18.4.0 5208 - F NR\_SL\_relay\_enh-Core

[R2-2500567](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500567.zip) Correction on indirect path failure information China Telecom, Huawei, HiSilicon CR Rel-18 38.331 18.4.0 5214 - F NR\_SL\_enh2-Core

[R2-2500802](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500802.zip) Correction on T400 configuration Xiaomi, Apple CR Rel-18 38.331 18.4.0 5229 - F NR\_SL\_relay\_enh-Core

[R2-2500907](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500907.zip) Corrections for Rel-18 SL relay ZTE Corporation, Sanechips CR Rel-18 38.331 18.4.0 5242 - F NR\_SL\_relay\_enh-Core

[R2-2501236](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501236.zip) Correction to UE information transfer on sidelink Huawei, HiSilicon CR Rel-18 38.331 18.4.0 5270 - F NR\_SL\_relay\_enh-Core

### 7.5.4 User plane corrections (including SRAP)

Impact to 38.351, 38.321, 38.322, and 38.323.

## 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

1 additional tdoc on top of limit can be allowed for co-sourced contribution with 3 or more companies

[R2-2500032](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500032.zip) LS on AdditionalSpectrumEmission in NR SL Pre-configuration (R4-2418075; contact: LGE) RAN3 LS in Rel-18 NR\_SL\_enh2-Core To:RAN2 Cc:RAN1

[R2-2500097](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500097.zip) Discussion on left issue of MCSt LG Electronics Inc. discussion NR\_SL\_enh2-Core

[R2-2500101](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500101.zip) Discussion on MCSt on PSFCH resource pool ZTE Corporation, Sanechips, Ericsson, Qualcomm discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2500102](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500102.zip) Discussion on MCSt and PQI-CAPC mapping ZTE Corporation, Sanechips, Ericsson discussion Rel-18 NR\_SL\_relay\_enh-Core

[R2-2500114](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500114.zip) Remaining issues for MCSt OPPO discussion Rel-18 NR\_SL\_enh2

[R2-2500169](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500169.zip) Discussion on MCSt for multi-TB with PSFCH configured Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2-Core

[R2-2500412](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500412.zip) Miscellaneous MAC Corrections on Sidelink ASUSTeK CR Rel-18 38.321 18.4.0 2023 - F NR\_SL\_enh2-Core

[R2-2500730](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500730.zip) SL-Carrierfailure indication correction Lenovo CR Rel-18 38.331 18.4.0 5222 - F NR\_SL\_enh2-Core Withdrawn

[R2-2500875](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500875.zip) Discussion on resource re-selection from SL LBT Failure indication Ericsson discussion Rel-18 NR\_SL\_enh2-Core

[R2-2500996](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500996.zip) SL-Carrierfailure indication correction Lenovo CR Rel-18 38.331 18.4.0 5255 - F NR\_SL\_enh2-Core

[R2-2501140](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501140.zip) MAC correction on Release-18 Sidelink evolution LG Electronics Inc. CR Rel-18 38.321 18.4.0 2039 - D 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

[R2-2500556](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500556.zip) Less than 5Mhz and carrier configuration Nokia discussion Rel-18 NR\_FR1\_lessthan\_5MHz\_BW

[R2-2501220](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501220.zip) Clarification on the less than 5M Configuration ZTE Corporation discussion Rel-18 NR\_FR1\_lessthan\_5MHz\_BW-Core

[R2-2501221](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501221.zip) Correction on the Less than 5M Configuration ZTE Corporation CR Rel-18 38.331 18.4.0 5268 - F NR\_FR1\_lessthan\_5MHz\_BW-Core

[R2-2500950](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500950.zip) SSB position restrictions for less-than-5MHz SCells Qualcomm Incorporated CR Rel-18 38.331 18.4.0 5249 - F NR\_FR1\_lessthan\_5MHz\_BW-Core

[R2-2500976](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500976.zip) Correction on SIB22 broadcasting status Samsung CR Rel-18 38.331 18.4.0 5253 - F NR\_ATG-Core

[R2-2501190](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501190.zip) Clarification to lower MSD capability Nokia CR Rel-18 38.306 18.4.0 1240 - F NR\_ENDC\_RF\_FR1\_enh2-Core

[R2-2501208](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501208.zip) Summary of [POST128][023][NR Other] NR\_BWP (vivo) vivo discussion Rel-18 NR\_BWP\_wor-Core

[R2-2501209](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501209.zip) Correction on UE capability for BWP\_Wor (option 1) vivo CR Rel-18 38.306 18.4.0 1241 - F NR\_BWP\_wor-Core

[R2-2501210](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501210.zip) Correction on UE capability for BWP\_Wor (option2-306CR) vivo CR Rel-18 38.306 18.4.0 1242 - F NR\_BWP\_wor-Core

[R2-2501211](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501211.zip) Correction on BWP operation without restriction for DC case (Option 2-300CR) vivo CR Rel-18 38.300 18.4.0 0965 - F NR\_BWP\_wor-Core

### 7.8.2 RAN1 led items

### 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, except for C1-247193. Co-sourced papers are encouraged and will be prioritized.

**LS from RAN3**

[R2-2500031](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500031.zip) Reply LS on RAN3 vs RAN2 Basketball Match (R3-247925; contact: ZTE) RAN3 LS in Rel-19 TEI19 To:RAN2 Cc:RAN1, RAN4, RAN5

Moved from 8.19

**Modernization**

Tdoc to be uploaded Report of [POST127][004][ASN.1 Modernization] Requirements Nokia

[R2-2501248](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501248.zip) Improvements to specification handling Ericsson discussion

[R2-2501456](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501456.zip) Plan for offline trial of Git Ericsson discussion

**RAT restriction**

[R2-2500004](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500004.zip) UE usage of the RAT restrictions (C1-247193; contact: Apple) CT1 LS in Rel-19 ECRATU To:RAN2 Cc:CT4

[R2-2500435](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500435.zip) RAN2 impact of WID ECRATU Apple, Vodafone, InterDigital, Ericsson discussion Rel-19 ECRATU

[R2-2500112](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500112.zip) Discussion on RAT Restriction (C1-247193) OPPO discussion Rel-19 ECRATU

[R2-2500521](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500521.zip) Discussion on CT1 LS in [R2-2500004](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500004.zip)/C1-247193 CATT discussion

[R2-2500550](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500550.zip) RAT restrictions for ECRAT Nokia discussion Rel-19 ECRATU

[R2-2500436](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500436.zip) Restriction on RAT utilization Apple, Vodafone, InterDigital, Ericsson draftCR Rel-19 36.304 18.3.0 B ECRATU

[R2-2500437](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500437.zip) Restriction on RAT utilization Apple, Vodafone, InterDigital, Ericsson draftCR Rel-19 38.304 18.4.0 B ECRATU

[R2-2500438](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500438.zip) Restriction on RAT utilization Apple, Vodafone, InterDigital, Ericsson draftCR Rel-19 38.300 18.4.0 B ECRATU

[R2-2500967](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500967.zip) Restriction on RAT utilization Apple, Vodafone, InterDigital, Ericsson draftCR Rel-19 36.300 18.4.0 B ECRATU

**Energy saving**

[R2-2500051](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500051.zip) LS on energy saving indication from CN to RAN (S2-2413034; contact: Ericsson)            SA2       LS in     Rel-19    EnergySys          To:RAN2, RAN3

**Time synchronization for MBS**

[R2-2500055](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500055.zip) LS on Time Synchronization for MBS (S4-242169; contact: Qualcomm)            SA4       LS in     Rel-19   FS\_AMD    To:SA2, RAN2

[R2-2500066](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500066.zip) Reply LS on Time Synchronization for MBS (S2-2501327; contact: Ericsson) SA2       LS in     Rel-19   FS\_AMD    To:SA4, RAN2

[R2-2501096](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501096.zip) Time Synchronization for MBS Ericsson discussion Rel-19 FS\_AMD

## 8.1 AI/ML for NR air interface

(NR\_AIML\_air-Core; leading WG: RAN1; REL-19; WID: RP-243244 and SID: RP-243245)

Time budget: 2.5 TU

Tdoc Limitation: 5 tdocs

### 8.1.1 Organizational

LS, Rapporteur input, including workplan, including running CRs for 38.300 and 38.331 etc.

**LS in**

RAN2 in “TO”

[R2-2500011](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500011.zip) Reply LS on applicable functionality reporting for beam management UE-sided model (R1-2410898; contact: Samsung) RAN1 LS in Rel-19 NR\_AIML\_air-Core To:RAN2

[R2-2500015](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500015.zip) LS on signalling feasibility of dataset and parameter sharing (R1-2410922; contact: Qualcomm) RAN1 LS in Rel-19 FS\_NR\_AIML\_air To:RAN2 Cc:SA2, SA3, SA5

[R2-2500062](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500062.zip) LS on LMF-based AI/ML Positioning for Case 2b (S2-2501133; contact: vivo) SA2 LS in Rel-19 AIML\_CN To:RAN1, RAN2 Cc:RAN3

RAN2 in “CC”

[R2-2500018](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500018.zip) LS on per-UE UE performance metrics (R3-247775; contact: Huawei) RAN3 LS in Rel-18 NR\_AIML\_NGRAN-Core To:SA5 Cc:RAN2

[R2-2500019](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500019.zip) Reply LS on AIML data collection (R3-247801; contact: ZTE) RAN3 LS in Rel-19 NR\_AIML\_air, NR\_AIML\_air-Core To:SA2 Cc:RAN2, SA, RAN, SA3, SA5

[R2-2500043](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500043.zip) LS on AI/ML UE sided data collection (RP-243316; contact: InterDigital) RAN LS in Rel-19 NR\_AIML\_air To:SA, SA2, SA5 Cc:RAN2, SA3

[R2-2500049](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500049.zip) Reply LS on AIML data collection (S2-2412726; contact: InterDigital) SA2 LS in Rel-19 NR\_AIML\_air To:RAN, SA Cc:RAN1, RAN2, RAN3, SA3, SA5

[R2-2500053](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500053.zip) Reply LS on AIML data collection (S3-245138; contact: Samsung) SA3 LS in Rel-19 NR\_AIML\_air To:RAN Cc:RAN2, SA, SA1, SA2, SA5

[R2-2500058](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500058.zip) Reply LS on AIML Data Collection (S5-247219; contact: Nokia) SA5 LS in Rel-19 NR\_AIML\_air To:RAN Cc:SA, SA2, SA3, RAN1, RAN2, RAN3

[R2-2500059](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500059.zip) Reply LS on AIML Data Collection (S5-247336; contact: Samsung) SA5 LS in Rel-19 AIML\_MGT\_Ph2 To:RAN Cc:SA, SA2, SA3, RAN1, RAN, RAN3

[R2-2500070](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500070.zip) LS on LMF-based AI/ML Positioning for case 3b (S2-2501341; contact: Ericsson) SA2 LS in Rel-19 AIML\_CN To:RAN3, RAN1 Cc:RAN2

**Running CRs**

*38300*

[R2-2500123](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500123.zip) Introduction of AI for Air interface feature in 38300 vivo(Rapporteur) draftCR Rel-18 38.300 18.4.0 NR\_AIML\_air-Core

*38331*

[R2-2501263](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501263.zip) Draft running RRC CR for AIML PHY Ericsson draftCR Rel-19 38.331 18.4.0 B NR\_AIML\_air-Core

[R2-2501338](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501338.zip) On the Running Stage 3 (38.331) CR Nokia discussion Rel-19 NR\_AIML\_air-Core

### 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.

**Applicability reporting**

Information to determine applicability

[R2-2500159](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500159.zip) Discussion on LCM for UE-sided model for Beam Management Spreadtrum, UNISOC discussion Rel-19

Proposal 1: RAN2 can adopt the option A in RAN1 LS.

[R2-2500152](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500152.zip) Open Issues for Applicable Functionality Reporting for BM OPPO discussion Rel-19 NR\_AIML\_air-Core

Proposal 5: For applicable functionality reporting Step 3, RAN2 assumes Solution B, i.e. one set or multiple sets of inference related parameters for applicability report (not for inference) is included in Step 3, is the baseline for further signaling design.

[R2-2500413](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500413.zip) Discussion on LCM for UE-sided models ASUSTeK discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: RAN2 should support both configuration options of Direction A and B.

Signaling for configurations to determine applicability

[R2-2500507](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500507.zip) Discussion on LCM for UE-sided model for beam management Samsung discussion Rel-19 NR\_AIML\_air-Core

Proposal 8: RAN2 agree to support one same format (CSI-ReportConfig) to support both Option A (i.e., Full CSI-ReportConfig) and Option B (i.e., Partial CSI-ReportConfig). `

[R2-2500124](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500124.zip) Discussion on LCM for UE-sided model for Beam Management vivo discussion NR\_AIML\_air-Core

Proposal 1: The one set or multiple sets of inference related parameters for Option B) are configured in the otherConfig.

Explicit vs. implicit applicability reporting

[R2-2500997](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500997.zip) LCM for UE-side Beam Management Nokia discussion Rel-19 NR\_AIML\_air-Core

Proposal 12: Support the explicit reporting of inapplicability.

Proposal 13: Support reporting specific reasons for applicability and inapplicability alongside the applicability indication such as changes of prediction accuracy level.

[R2-2500858](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500858.zip) Discussion on LCM for UE-sided model for Beam Management use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 6b: UE always reports only applicable functionalities in the applicable functionality reporting, regardless of whether it is reported for the first time or reported upon a status change.

Applicability report signalling

[R2-2501262](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501262.zip) LCM for UE-side models for beam management Ericsson discussion

Proposal 1: Upon receiving one or more CSI-ReportConfig for inference configuration (case A), the UE responds by sending the applicability report via RRCReconfigurationComplete.

Proposal 2: The UE reports the applicability of an inference configuration (in CSI-ReportConfig) when it receives it, regardless of whether the inference configuration is sent by the network in Step 3 or Step 5.

Proposal 3: The one or more set(s) of inference related parameters for applicability report (case B) are sent to the UE in otherConfig and the UE responds by sending the applicability report via UAI.

Proposal 4: Upon applicability changes (from applicable to non-applicable and vice versa), the UE can send the applicability report via UAI for both inference configurations and sets of inference related parameters.

[R2-2500858](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500858.zip) Discussion on LCM for UE-sided model for Beam Management use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: To align the design on how the applicable functionality are signaled in both UAI and RRC Reconfiguration Complete message, the UAI message containing the applicable reporting can be carried as container in RRC Reconfiguration Complete.

Applicability report structure (if time allows)

[R2-2501103](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501103.zip) LCM for UE-sided model for BM Google discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: For the content of applicable functionality reporting, the following two options can be considered:

- Opt 1: explicit functionality ID of the applicable functionality

- Opt 2: implicit information (e.g., bitmap) mapped to the supported functionality ID

Proposal 3: The applicable functionalities are reported, categorized by the associated CSI-ReportConfig or set of inference-related parameters.

**Functionality handling**

Functionality (de)activation

[R2-2500259](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500259.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 13: If option A is configured in Step 3, the UE may autonomously activate the applicable functionalities (e.g. periodic CSI reporting as agreed in RAN1) upon successfully reporting applicable functionalities via RRCReconfigurationComplete in step 4 (i.e. without need to wait RRCReconfiguration in Step 5).

Proposal 14: If option B is configured in Step 3, the UE activates the applicable functionalities only after reception of CSI-ReportConfig for inference configuration in RRCReconfiguration message of step 5.

[R2-2500264](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500264.zip) Functionality Applicability Reporting and Management Xiaomi discussion Rel-19 NR\_AIML\_air-Core

Proposal 6: Semi-persistent and aperiodic CSI reporting of applicable functionality is activated following legacy CSI framework:

- Semi-persistent reporting, activated by MAC CE/DCI

- Aperiodic CSI reporting, activated by DCI

Inference configuration handling after non-applicability (if time allows)

[R2-2500320](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500320.zip) Further Discussion on LCM for UE-side Model for AI-BM MediaTek Inc. discussion

Proposal 5: If none of the inference configurations provided in step 3 are applicable, the UE keeps the inference configurations and reports 0 applicable inference configurations in step 4.

Proposal 6: If none of the inference configurations provided in step 5 are applicable, the UE keeps the inference configurations and reports 0 applicable inference configurations. Re-establishment should not be triggered.

**Performance monitoring (if time allows)**

[R2-2500468](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500468.zip) Discussion on LCM for UE-sided Model for Beam Management Use Case Fujitsu discussion Rel-19 NR\_AIML\_air-Core

Proposal 7 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.

Proposal 8 The performance monitoring procedure can be triggered either periodically or event based.

Proposal 9 L1 signaling can be used as the baseline for the reports of option1 and option2. MAC and/or RRC signaling can be further studied.

**Not Treated**

[R2-2500121](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500121.zip) Discussion on LCM for UE sided model NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2500140](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500140.zip) LCM for UE-sided model for BM LG Electronics discussion Rel-19 NR\_AIML\_air-Core

[R2-2500153](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500153.zip) Open Issues for UE Request Triggered Data Collection Procedure for BM OPPO discussion Rel-19 NR\_AIML\_air-Core

[R2-2500238](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500238.zip) Discussion on LCM for UE-sided model for BM use case CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2500392](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500392.zip) On LCM for UE-sided Models for Beam Management Qualcomm Incorporated discussion Rel-19

[R2-2500568](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500568.zip) LCM for UE-sided model for BM use case China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2500611](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500611.zip) LCM for UE-sided model in beam management Lenovo discussion Rel-19

[R2-2500737](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500737.zip) Some aspects for model monitoring on UE side Sony discussion Rel-19 NR\_AIML\_air-Core

[R2-2500755](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500755.zip) On LCM for UE-sided Model for Beam Management Use Case SHARP discussion

[R2-2500756](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500756.zip) Further discussion on LCM for UE-sided model for BM Transsion Holdings discussion Rel-19

[R2-2500835](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500835.zip) Continuous Discussion On LCM for UE-sided model ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[R2-2501048](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501048.zip) Discussion on LCM for UE-sided model for BM CMCC discussion Rel-19 NR\_AIML\_air-Core

[R2-2501079](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501079.zip) Considerations on LCM for UE-sided model in Beam Management use case Kyocera discussion

[R2-2501122](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501122.zip) LCM for UE-sided model for Beam Management use case InterDigital discussion Rel-19 NR\_AIML\_air-Core

[R2-2501218](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501218.zip) Discussion on LCM for UE-Side Model for Beam Management use case Futurewei Technologies discussion Rel-19

[R2-2501230](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501230.zip) Discussion on LCM for UE-sided model for BM use case TCL 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 and should focus on 1st priority positioning use cases. Aspects related to data collection should be covered in 8.1.3

Including outcome of [POST128][026][AIML] LCM Procedure for Positioning Case1 (Ericsson)

**Email discussion**

[R2-2500968](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500968.zip) Report of [POST128][026][AIML] LCM Procedure for Positioning Case1 (Ericsson) Ericsson discussion

Proposal 1: Introduce AI/ML positioning Case 1 as a new positioning method.

Proposal 2: Existing LPP procedures related to Location Information Transfer (RequestLocationInformation/ ProvideLocationInformation messages) are used for providing the results of the UE sided model inference operation. The detail stage 3 message extention can be disucssed while drafting the stage 3 CR.

Proposal 3: UE autonomous switching between AI/ML and non-AI/ML methods is not allowed.

Proposal 4: The content of error cause is discussed while drafting stage3 CRs.

Proposal 5: UE receives the needed assistance data for calculating UE location for AI/ML in step3 (ProvideAssistanceData) and UE receives the instruction to perform the interference in step 5 (RequestLocationInformation). The content of Assistance Data and the content of request location information is based upon RAN1 parameter list.

Proposal 6: UE reports the applicable functionality to the LMF by the LPP provide capabilities message without any additional LMF control.

Proposal 7: RAN2 does not send LS to RAN1 asking questions on AI/ML Positioning Case1 but wait for RAN1 to provide the parameter/capability/feature list.

*Fallback*

[R2-2500469](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500469.zip) Discussion on LCM for Positioning Use Case Fujitsu discussion Rel-19 NR\_AIML\_air-Core

Proposal 2 New fallback configuration (e.g., pre-configuration) for AI/ML positioning case 1 may be introduced to guarantee the accuracy and latency of positioning service.

Proposal 3 Fallback and functionality switching may be integrated into one procedure, details can be further discussed.

[R2-2500847](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500847.zip) LCM for positioning use case Qualcomm Incorporated discussion

Proposal 1: Assuming "AI/ML positioning Case 1" is specified as a new NR positioning method, "fallback" to non-AI/ML positioning is supported by including multiple positioning methods in a LPP Request Location Information message. No additional specification work is foreseen specifically for supporting "fallback operation".

[R2-2500260](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500260.zip) Remaining issues on LCM procedure of AI/ML based positioning Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: Not support fallback configuration, i.e. it is sufficient to rely on legacy LMF reconfiguration upon reception of error cause.

**LS to SA2 on Case2b**

[R2-2500125](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500125.zip) Discussion on left issues and Reply LS on AIML enhanced positioning vivo discussion NR\_AIML\_air-Core

Proposal 1: Adopt the Draft Reply LS to SA2 as attached in Annex, with the following RAN2 status on LMF-involved AI/ML positioning Case 2b:

- RAN2 has not make any discussion or agreement on Case 2b which is the use case of the second priority;

- RAN2 would wait for RAN1 discussion progress before starting any potential work on case 2b.

[R2-2501123](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501123.zip) LCM for Positioning use case InterDigital discussion Rel-19 NR\_AIML\_air-Core

Proposal 5a: Respond to SA2 LS indicating that Case 2b is considered 2nd priority in RAN, and RAN2 does not anticipate any future work in this release.

**Other topics (if time allows)**

*Functionality management*

[R2-2500501](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500501.zip) Discussion on the LCM for AI positioning case 1 Xiaomi discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: LMF activates AI positioning case 1 via configuring AI positioning case 1 in RequestLocationInformation.

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

*Performance monitoring*

[R2-2500605](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500605.zip) Discussion on LCM for positioning use case ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

Proposal 12: RAN2 needs to discuss whether to introduce a new signaling procedure in LPP for performance monitoring metric transfer, or to include the performance monitoring metric transfer in the ProvideLocationInformation message.

**Not Treated**

[R2-2500174](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500174.zip) Association of measurements and ground truth labels for positioning use-cases Fraunhofer IIS, Fraunhofer HHI discussion [R2-2409907](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2409907.zip)

[R2-2500239](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500239.zip) Consideration on LCM for Positioning use case CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2500294](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500294.zip) LCM for Positioning use case NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2500569](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500569.zip) LCM for UE-sided model for positioning use case China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2500612](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500612.zip) LCM for AIML based positioning with UE-sided model Lenovo discussion Rel-19

[R2-2500638](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500638.zip) Discussion on LCM for POS use case Samsung discussion Rel-19 NR\_AIML\_air-Core

[R2-2500969](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500969.zip) LCM For Positioning Ericsson discussion

[R2-2500977](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500977.zip) LMF control for UE reporting of changes in applicable functionalities Nokia discussion Rel-19 NR\_AIML\_air-Core

[R2-2501031](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501031.zip) Discussion on LCM for positioning CMCC discussion Rel-19 NR\_AIML\_air-Core

[R2-2501109](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501109.zip) Discussion on LCM for Positioning use case Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

[R2-2501124](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501124.zip) [DRAFT] Reply LS on LMF-based AIML Positioning for Case 2b InterDigital LS out Rel-19 NR\_AIML\_air-Core To:SA2 Cc:RAN1, RAN3

[R2-2501261](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501261.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.

Including outcoem of [POST128][019][AI PHY] NW side data collection (Nokia)

**Logging events:**

[R2-2501330](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501330.zip) Report on [POST128][019][AI PHY] NW side data collection (Nokia) Nokia discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: Support the use of L3 event triggers to activate or deactivate logging. The mechanism for activating and deactivating logging in response to the trigger and the L3 event triggers can be used are FFS.

Proposal 2: Do not support L1 measurement logging based on a change in the top-1 beam.

Proposal 3: Wait for RAN1 before agreeing to introduce new L1 measurement event-based triggering to activate and deactivate L1 measurement logging.

Proposal 4: Support periodic logging of L1 measurements after an event, L3 (L1 FFS), if supported, is triggered, while the event conditions are fulfilled. Stop periodic logging of L1 measurements when the event conditions are no longer fulfilled. FFS on the periodicity of measurement logging, e.g., configurable or the same as the CSI-RS periodicity.

Proposal 5: The configuration of a logging periodicity or time interval for logging after an event triggers L1 measurement logging is not supported.

Proposal 6: Do not support logging measurements based on the number of samples already collected.

[R2-2501286](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501286.zip) NW-side data collection for beam management and positioning Ericsson discussion

Proposal 8 RAN2 to support the following events for the logging of NW-side data:

a. L3 serving cell measurements becoming worse/better than a threshold

b. Filtered L1 measurements associated to one or more CSI-RS/SSB resources of serving cell becomes worse/better than threshold.

**Availability indication:**

[R2-2500261](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500261.zip) Remaining issues on NW-sided data collection Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: Availability reporting includes the cause indication for the NW to at least differentiate the following two cases. FFS whether introduce finer sub-indication on different UE internal status in Case 2.

1) Case 1: indicate UE’s logged measurement is available for NW retrieval

2) Case 2: indicate UE’s internal status, including low power state, low memory state and AS buffer is full.

Proposal 10: Support both NW triggered availability reporting and UE initiated availability reporting:

1) NW triggered: reporting as response to NW request via various RRC complete messages.

2) UE initiated: it is up to UE implementation when to report via UAI message.

Proposal 11: The UE reports availability indication to the network after its buffer is full.

[R2-2500126](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500126.zip) Discussion on NW side data collection vivo discussion NR\_AIML\_air-Core

Proposal 4. 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.

Proposal 5. There is no need for threshold-based buffer status report, UE should send the availability indication opon the buffer becomes full.

Proposal 6. The availability indication of logged data can be sent to network via the following messages:

- UEAssistanceInformation, if configured to provide availability indication of logged data when buffer becomes full;

- RRCReconfigurationComplete, if the UE has logged training data available when generating the RRCReconfigurationComplete message;

- UEInformationResponse, if the UE has additional logged training data that are not included in the UEInformationResponse message.

[R2-2500160](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500160.zip) Discussion on NW side data collection Spreadtrum, UNISOC discussion Rel-19

Proposal 3: RAN2 can consider the following triggers for reporting availability indication:

- Data collection process is stopped.

- AS buffer is above a threshold.

- Upon receiving the request from NW.

Proposal 4: The availability indication should indicate categories of logged data and the corresponding data size.

**Content of collected data:**

[R2-2501049](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501049.zip) Discussion on NW side data collection CMCC discussion Rel-19 NR\_AIML\_air-Core

Proposal 6: The absolute time stamp is used to indicate the time of report, and relative time stamp is used to indicate the time of logged measurement results, similar as logged MDT.

[R2-2500321](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500321.zip) Further Discussion on NW-side Data Collection MediaTek Inc. discussion

Observation 4: For content for data collection for training for NW-sided model via higher layer signaling, for BM-Case1, Type 2/3 data content requires Set A/Set B configuration information, while Type 1 data content does not. However, RAN1 has not reached a conclusion regarding the data content.

Proposal 10: For the data content for both NW-side/UE-side model training, RAN2 waits for RAN1’s progress on BM-Case 1 and BM-Case 2.

[R2-2500506](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500506.zip) Disuccsion on NW side data collection Samsung discussion Rel-19 NR\_AIML\_air-Core

Proposal 1. RAN2 supports the following 3 types of data contents for BM-Case 1 for NW-side data collection:

- Type 1: All L1-RSRPs of measured based the resources (for Set A/B) configured to UE

- Type 2: All L1-RSRPs measured based on resources (for Set B) configured to UE, and beam information of K beams based on some resources (for Set A) configured to UE

- Type 3: All L1-RSRPs measured based on resources (for Set B) configured to UE, and beam information and L1-RSRPs of K beams based on some resources (for Set A) configured to UE

- Wherein the K beams are the beams with the largest K L1-RSRPs based on the resources (for Set A) in one instance

- K is configured by NW

**Sending of large data:**

[R2-2501286](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501286.zip) NW-side data collection for beam management and positioning Ericsson discussion

Proposal 12 As baseline, the UEInformationResponse contains one or more logged measurement entries in chronological order (i.e. starting from the oldest measurement entries stored in the UE memory), and an availability indication if there are further data available for transmission. Same principles as for logged MDT.

[R2-2500613](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500613.zip) Data collection for NW-sided model training Lenovo discussion Rel-19

Proposal 8 Upon the trigger of the data report, UE will send an availability indication together with data size information for gNB to fetch the logged data with enough radio resource reserved.

Proposal 10 If one UEInformationResponse is not enough to convey all logged data, UE should be able to generate and transmit multiple UEInformationResponse messages consecutively without waiting for another UEInformationRequest message.

**Handling of configuration/data during mobility/state transition:**

[R2-2500141](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500141.zip) NW side data collection LG Electronics discussion Rel-19 NR\_AIML\_air-Core

Proposal 12: UE retains logged data during handover (HO)

Proposal 13: UE indicates availability of logged data during handover (e.g., within the RRCReconfigurationComplete message).

Proposal 14: UE retains logged data during transitions to RRC Idle/Inactive states or during RRC Re-establishment procedures.

Proposal 15: UE informs the network about the availability of logged data upon transitioning back to the RRC Connected state (e.g., through RRCSetupComplete, RRCResumeComplete or RRCReestablishment messages).

[R2-2500240](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500240.zip) Consideration on NW side data collection CATT discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: The UE discards/clears the AIML training data collection configuration for NW-side model training during HO.

Proposal 10: The UE maintains the logged AIML training data for NW-side model training during HO.

Proposal 11: The UE discards/clears the AIML training data collection configuration for NW-side model training when UE entering IDLE/INACTIVE state.

Proposal 12: The UE maintains the logged AIML training data during RRC state transition

[R2-2500126](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500126.zip) Discussion on NW side data collection vivo discussion NR\_AIML\_air-Core

Proposal 7. UE should release the training data collection configuration and logged training data upon transitions from RRC\_CONNECTED to RRC\_INACTIVE/IDLE.

**Data collection configuration:**

[R2-2500391](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500391.zip) On Network Side Data Collection Qualcomm Incorporated discussion Rel-19

Proposal 1: The training data collection configuration consists of

- Measurement targets (i.e., CSI resources or resource sets for measurements), and

- Logging configuration (e.g., periodicity, events for logging measurements).

Proposal 2: The CSI framework is used for configuring measurement targets (i.e., CSI resource or resource sets) for training data collections.

Proposal 3: The network should continue to ensure that the maximum number of SSB/CSI-RS configured for measurements lies within the maximum number of SSB/CSI-RS measurements supported at the UE per slot and per FR. That includes SSB/CSI-RS used for

- Different non-AI/ML-related tasks (i.e., legacy CSI reporting for different purposes), and

- Different AI/ML-related tasks (e.g., training data collection configuration, inference, and monitoring), and

- Different AI/ML features (e.g., beam management, CSI prediction, CSI Feedback).

Proposal 7: The UE can be configured with multiple CSI resources or resource sets for training data collection.

Proposal 8: Dynamic activation/deactivation of training data collection and logging should be used to randomize the training data collection and logging, following semi-persistent and aperiodic CSI reporting as the reference.

[R2-2500838](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500838.zip) Further Discussion on NW Side Data Collection ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: As same as immediate MDT, The OAM/gNB Centric data collection for beam management is based on the L3 measurement framework (e.g. MeasObjectNR and reportConfigNR).

Proposal 2: For NW side data collection for beam management, the RS resources for data collection are configured in a MeasObjectNR, and the reporting related configuration for data collection are configured in the reportConfigNR associated with a same MeasId that is linked to the MeasobjectNR.

Proposal 3: For NW side data collection for beam management, at most one measurement configuration can be configured to the UE for each serving cell. Multiple configurations can be provided to the UE for multiple serving cells.

Proposal 4: For NW side data collection for beam management, the dynamic activation/deactivation of logging data/measurement is not supported in Rel-19.

[R2-2500154](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500154.zip) Data Collection for Network Side Model Training for BM OPPO discussion Rel-19 NR\_AIML\_air-Core

[R2-2500285](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500285.zip) Discussion on NW-side data collection NEC discussion NR\_AIML\_air-Core

[R2-2500404](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500404.zip) NW side data collection Interdigital Inc. discussion Rel-19 NR\_AIML\_air-Core

[R2-2500470](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500470.zip) Discussion on NW side Data Collection Fujitsu discussion Rel-19 NR\_AIML\_air-Core

[R2-2500574](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500574.zip) Discussion on NW side data collection for AIML based beam management China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2500798](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500798.zip) Discussion on NW side data collection Xiaomi discussion

[R2-2500888](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500888.zip) Data Collection for Training of NW-side AI/ML Models Nokia discussion Rel-19 NR\_AIML\_air-Core

[R2-2500893](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500893.zip) Discussion on NW-sided data collection for training Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

[R2-2501121](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501121.zip) Discussion on NW side data collection for positioning TCL discussion

[R2-2501137](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501137.zip) Further discussion on NW side data collection Continental Automotive discussion

[R2-2501152](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501152.zip) Discussion on NW-side Data Collection SHARP Corporation discussion

[R2-2501219](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501219.zip) Discussion on Data Collection for NW-side Model Training Futurewei Technologies discussion Rel-19

[R2-2501271](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501271.zip) Enhancements to NW Side Data Collection Rakuten Mobile, Inc discussion Rel-19

### 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*

**Data collection configuration:**

[R2-2500262](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500262.zip) Further discussion on UE-side data collection Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: Extend the following agreements on data collection configuration in AI/ML based beam management to general UE-side data collection configuration:

* Data collection related configuration(s) (e.g., measurement resources configuration) and associated ID(s) can be included in training data collection configuration.
* For data collection configuration UE-side model training, the UE can send a request for data collection.
* The network can provide the data collection configuration (at any point in time), with or without UE request.
* The following methods for network control of the initiation and configuration for data collection:
	+ - * The network can decide when to start/stop the data collection and send configuration.
			* The network can configure whether UE is allowed to initiate request for data collection.

Proposal 2: The UE request may include the indication on whether initializing / stopping data collection and suggested measurement resource configuration. And it is up to NW implementation whether to accommodate the UE request.

Proposal 3: On data collection configuration without UE request, RAN2 leaves the detailed solution discussion to other WG.

[R2-2500889](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500889.zip) UE side data collection Nokia discussion Rel-19 FS\_NR\_AIML\_air\_Ph2

Proposal 1: RAN2 to study for UE-side data collection measurement configuration should focus on enhancements to RRC for beam prediction and LPP for positioning.

Proposal 5: For Beam Management, the same RRC configuration framework is used to configure measurement resources for UE-side data collection as for NW-side data collection.

Proposal 6: UE-side data collection is always configured to the UE through Control Plane (RRC or LPP) regardless of a use case and which transfer method is decided

**Visibility of collected data:**

[R2-2500322](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500322.zip) Further Discussion on UE-side Data Collection MediaTek Inc. discussion

Proposal 6: 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.

[R2-2501110](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501110.zip) Discussion on UE-sided data collection for training Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: For NG-RAN involvement in the data transfer of UE side data collection (if any) (including visibility discussion) for option 2, when CN NF needs some information for NG-RAN (e.g. congestion status in Uu), NG-RAN may be involved, but existing procedures can be used for that purpose. visibility Opt B) (Partial visibility) and Opt C (No standardized visibility) are not supported as they may lead to big challenges, e.g. user privacy leakage.

Proposal 7: For NG-RAN involvement in the data transfer of UE side data collection (if any) (including visibility discussion) for option 3, there is NG-RAN involvement. Visibility Opt B) (Partial visibility) and Opt C (No standardized visibility) are not supported as they may lead to big challenges, e.g. user privacy leakage.

[R2-2500405](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500405.zip) UE side data collection Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_air

Proposal 2: 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.

**UP data transfer:**

[R2-2500393](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500393.zip) On UE Side Data Collection Qualcomm Incorporated discussion Rel-19

Proposal 1: Following the legacy procedures, the NG-RAN is responsible for admission control of the PDU based on information/parameters provided by the 5GC.

Proposal 2: SA2 should further study the following

- Whether the data collection report can share the PDU session with other traffic?

- What information/parameters are used by the NG-RAN for the admission control of PDUs corresponding to the UE-side data collection report?

Proposal 4: 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: Procedures for user-plane solutions in CN domain and OAM domain may need to be performed,

- Procedure to enable the UE to establish a PDU session with the network entity in the CN or OAM domain, and

- Configuring or providing information/parameters for PDU admission control to NG-RAN.

[R2-2501287](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501287.zip) Remaining issues on UE-side data collection Ericsson discussion

Proposal 3 For UP-based solutions, the NG-RAN involvement in the data transfer is expected in the setting of PDU sessions and transport channels, as for any other UP service injected into the 3GPP network from the UE. No NG-RAN specification impact is expected.

[R2-2500262](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500262.zip) Further discussion on UE-side data collection Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 9: 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.

[R2-2500471](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500471.zip) Discussion on Data Collection via UP Tunnel for UE-sided model Fujitsu discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: RAN2 considers applying lower priority to transfer the data for AI/ML UE-sided model training comparing to other UL services.

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

Proposal 3: UE is allowed to request the data transfer for UE-sided model, e.g., UE sends UAI to request training data transfer.

**CP data transfer (scalability):**

[R2-2500127](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500127.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 5. The framework/agreement of NW side data collection is reused for CP-based UE side data collection.

Proposal 6. No scalability issue for CP-based UE data collection and data transfer.

[R2-2500799](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500799.zip) Discussion on UE side data collection Xiaomi discussion

Observation 1: Thousands of segments are required to transfer UE sided data over RRC message.

Observation 2: Significant signalling overhead and waste of air interface resource may be expected after handover, as service continuity in SRB is not supported and UE needs to retransmit all the collected data.

Observation 3: New SRB with lower priority is needed to support UE sided data transfer over RRC.

Proposal 5: RAN2 do not support UE sided data transfer over RRC in R19.

[R2-2500142](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500142.zip) Discussion on UE side data collection LG Electronics discussion Rel-19 NR\_AIML\_air-Core

[R2-2500155](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500155.zip) UE Side Data Collection OPPO discussion Rel-19 NR\_AIML\_air-Core

[R2-2500241](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500241.zip) Consideration on UE side data collection CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2500295](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500295.zip) Analysis of solutions for UE side model data collection NEC discussion Rel-19 NR\_AIML\_air-Core

[R2-2500837](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500837.zip) Further Considerations on UE Side Data Collection ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[R2-2500911](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500911.zip) UE side data collection Samsung R&D Institute UK discussion

[R2-2501050](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501050.zip) Discussion on UE side data collection CMCC,China Telecom discussion Rel-19 NR\_AIML\_air-Core

[R2-2501228](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501228.zip) Discussion on Data Collection for UE-side Model Training Futurewei Technologies discussion Rel-19

[R2-2501278](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501278.zip) Discussion on UE Side data collection Rakuten Mobile, Inc discussion Rel-19

### 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.*

 *For RAN2#129 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.*

**Feasibility of RAN1 identified solutions**

*OTA vs non OTA*

[R2-2500323](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500323.zip) Feasibility Analysis on RAN1 Identified Solution for Two-sided Model MediaTek Inc. discussion

Proposal 1: RAN2 assumes that "UE-side" refers to either a UE-side server for model training within the MNO’s network or a UE-side OTT server outside of the MNO’s network for the two-sided model discussion.

Proposal 2: RAN2 assumes that ‘NW-side’ refers to either NG-RAN or a network entity within the CN/OAM domain.

Proposal 3: RAN2 focus to evaluate the feasibility of Alternative 1, i.e. NG-RAN node shares the model parameters and/or dataset to the UE via air interface and leave other approaches to other SA WGs, e.g. SA2/SA5.

[R2-2501288](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501288.zip) On signalling feasibility of dataset and parameter sharing Ericsson discussion

Proposal 1 RAN2 concludes that standardized signalling over the air interface should be avoided.

Proposal 2 The options defined in the CR to TR38.843 [2] in the context of UE-side data collection can be reused as baseline approaches for the transferring of dataset/model parameters without impacting the over-the-air signalling:

a. gNB collects and directly transfers training data to the data collection entity outside the MNO (e.g. Over-The-Top (OTT) server) for two-sided model training.

b. gNB collects training data and transfers it to the server for data collection for two-sided model training (inside the MNO), and then optionally from the server for data collection for two-side model training to the OTT server (outside the MNO).

c. gNB collects training data and transfers it to Core Network. Core Network transfers the training data to the server for data collection for two-side model training/OTT server.

d. gNB collects training data and transfers it to OAM. OAM transfers the training data to the server for data collection for UE-side model training/OTT server.

Proposal 3 RAN2 respectfully asks SA2/SA3/SA5’s feedback on the feasibility of non-over-the-air options outlined in Proposal 1 for the transfer of dataset/model parameters from the gNB to the UE-side for the purpose of two-side model training.

*CP OTA solution*

[R2-2501111](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501111.zip) Discussion on signalling feasibility of dataset and parameter sharing for CSI compression Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

Proposal 4: For Option 1a, if the size is larger than 45KBytes, the following enhancements can be considered:

- NG-RAN can do the segmentation of dataset/parameter above RRC layer. This is transparent to RRC layer and a new AS protocol layer may have some RAN2 impacts

- NG-RAN can do the segmentation of dataset/parameter in RRC layer. This is non-transparent to RRC layer, and this may have some RAN2 impacts

Proposal 7: For Option 1a, the NW can trasnfer segments/subsets of dataset/parameter to UE, and then the UE can request missing segments/subsets from the NW to assist the transfer of dataset/parameter. Here one or more segments may form a subset.

Proposal 8: For Option 1a, the NW can inform UEs of segments/subsets information to UE in advance, such as total number of segments/subsets and identifiers. Then UEs can request specific segments/subsets from the NW to assist the transfer of dataset/parameter. Here one or more segments may form a subset.

[R2-2500263](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500263.zip) Discussion on parameters/model transfer in two-sided model Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 2: RAN2 conclude that CP solution of OTA signaling without dataset splitting is not feasible because existing RRC only allows up to 45KB with 5 segments in DL, which has a significant gap compared with the minimum payload size indicated in RAN1 LS (i.e. 11.6 MB in option 2).

Proposal 4: RAN2 conclude that CP solution of OTA signaling Option 2 and Option 3 with dataset split is not feasible because model parameter in Option 2 and 3 can’t be split.

Proposal 5: RAN2 conclude that CP solution of OTA signaling Option 1 with dataset split may not be feasible due to below concerns:

• It is not clear how to select a subset of UEs from the same device type of the same UE vendor, given that UE vendor and device type information are UE’s internal info which can’t be exposed to NW.

• It is not clear how to aggregate datasets of multiple UEs from the same device type of the same vendor.

*UP OTA solution*

[R2-2500296](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500296.zip) Signalling feasibility of dataset and parameter sharing NEC discussion Rel-19 NR\_AIML\_air-Core

Proposal-2: User plane based solution can be used to support the transmission of sharing dataset or sharing parameters corresponding to a nominal encoder from the gNB to the UE.

Proposal-3: the gNB sends the dataset or parameters to the core network, that is able to distribute the content to the UE via traditional UP tunnel.

[R2-2500263](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500263.zip) Discussion on parameters/model transfer in two-sided model Apple discussion Rel-19 NR\_AIML\_air-Core

Proposal 3: Irrespective of whether performing dataset split, RAN2 conclude that UP solution of OTA signaling is not feasible because existing UP protocol stack is between UE and UPF rather than between UE and RAN.

**Requirements for 1-sided and 2-sided model (if time allows)**

[R2-2500949](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500949.zip) Requirements for Model Transfer/Delivery T-Mobile USA Inc., Boost Mobile Network, Deutsche Telekom, Orange, Charter Communication, Nokia Corporation discussion Rel-19 NR\_AIML\_air-Core

Proposal 1: Adopt the following list of requirements for model transfer/delivery.

• Model transfer/delivery traffic should be differentiated from other user traffic.

• Model transfer/delivery traffic should be transferred at a different priority, e.g., lower than user traffic.

• There should be a guarantee that models are transferred securely, in a NW-aware manner, such that untrusted models cannot be downloaded.

• Model transfer/delivery is initiated by the UE.

• Models need to be addressable such that the UE can request the transfer/delivery of a specific one.

• The NW is in control of if and when to transfer / deliver a model to the UE.

Proposal 2: Adopt the following assumptions for discussion about model transfer/delivery.

• UE’s may only be able to store a limited set of trained models.

• Trained models could be per gNB, per UE hardware/software, per morphology, e.g., models could be applicable to a small number of sites.

• gNB can evaluate current conditions to determine whether to transfer a model, e.g., if a UE is at the cell edge, based on cell load, etc.

[R2-2501051](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501051.zip) Discussion on AIML model transfer delivery CMCC,China Unicom,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: For two-sided model, controllability and visibility are required for model transfer/delivery case z4, considering the following aspects:

- The CSI generation part at UE side and the CSI reconstruction part at NW side should be aligned for good model performance

- The whole model is trained at NW and the CSI generation part is sent to UE

- The model is open format and the structure is known at UE side, NW transfers the parameters of the model to UE

[R2-2501215](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501215.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 Case z4, there are following requirements.

* The model is in open format and UE should have known the model structure.
* NW and UE can coordinate to get common understanding about the model used by UE for encoder and the model used by NW for decoder.

**Not treated**

[R2-2500128](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500128.zip) Discussion on signaling feasibility of dataset and parameter vivo discussion NR\_AIML\_air-Core

[R2-2500156](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500156.zip) Open Discussion on Two Sided Model OPPO discussion Rel-19 NR\_AIML\_air-Core

[R2-2500242](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500242.zip) Signalling feasibility of AIML model transfer CATT discussion Rel-19 NR\_AIML\_air-Core

[R2-2500265](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500265.zip) Feasibility analysis of model/dataset transfer solutions Xiaomi discussion Rel-19 NR\_AIML\_air-Core

[R2-2500394](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500394.zip) Discussion on Dataset and Parameter Sharing from the Network to the UE for Two-Sided Model Training Qualcomm Incorporated discussion Rel-19

[R2-2500614](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500614.zip) Analysis on dataset and parameter transfer for two-sided model Lenovo discussion Rel-19

[R2-2500836](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500836.zip) On Evaluation of Standardized Signaling for Two-side model ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

[R2-2500910](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500910.zip) Discussion on signalling feasibility of dataset and parameter sharing for CSI compression Samsung R&D Institute UK discussion

[R2-2500998](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500998.zip) Discussion on RAN1 LS on Dataset and Parameter Transfer Nokia discussion Rel-19 NR\_AIML\_air-Core

## 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.

[R2-2500030](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500030.zip) LS on RAN3 outcome of Ambient IoT study (R3-247923; contact: Huawei) RAN3 LS in Rel-19 FS\_Ambient\_IoT\_solutions To:RAN1 Cc:RAN2, SA2

[R2-2500052](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500052.zip) LS on A-IoT Conclusions in SA WG2 (S2-2413035; contact: Huawei) SA2 LS in Rel-19 FS\_AmbientIoT, FS\_Ambient\_IoT\_solutions To:SA3, SA5, RAN2, RAN3 Cc:RAN, SA

[R2-2500063](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500063.zip) Reply LS on Assistance Information from CN to the Reader (S2-2501241; contact: ZTE SA2 LS in Rel-19 FS\_Ambient\_IoT\_solutions, FS\_AmbientIoT To:RAN2 Cc:RAN3

[R2-2501027](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501027.zip) Ambient IoT Work Item work plan CMCC, Huawei, T-Mobile USA Work Plan 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, etc.*

**Simultaneous Paging Procedures**

[R2-2500493](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500493.zip) Paging Aspects for Ambient IOT InterDigital discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 11: Parallel service requests by the same/different reader is not supported.

[R2-2501069](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501069.zip) Discussion on DL messages for Ambient IoT UEs Ericsson discussion Rel-19 FS\_Ambient\_IoT\_solutions

Proposal 8 Device ignores any other paging message received if it is participating in an ongoing paging round.

**Which entirty generates the transaction ID**

[R2-2501000](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501000.zip) Discussion on AIoT paging message NTT DOCOMO, INC. discussion Rel-19

Proposal 6. A-IoT paging message has a field to indicate a service request ID.

Proposal 7. The service request ID is generated in the reader based on the service requests from CN.

[R2-2500452](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500452.zip) Discussion on paging procedure for Ambient IoT OPPO discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 2: applying the CN side ID for avoiding duplicated response from A-IOT device.

**Transaction ID Size**

[R2-2500212](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500212.zip) A-IoT paging Huawei, HiSilicon discussion Rel-19

Proposal 2: A 2-bit “transaction ID” within the paging message is adequate to identify the current service for the subsequent paging purpose.

[R2-2500777](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500777.zip) Paging procedure for A-IoT ZTE Corporation, Sanechips discussion

Proposal 4: For supporting multiple paging rounds triggered by a certain service request from CN/AF, the following alternatives can be discussed for avoiding duplicated response from devices:

 Alt 1: To include an NDI (new data indication) indicator in the A-IoT Paging message(s) in the first paging round associated with a service request

 Alt2: To include a delta paging indicator in the A-IoT Paging message(s) in the subsequent paging rounds associated with the same service request

**Multiple Reader Scenario**

[R2-2500129](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500129.zip) Discussion on AIoT Paging vivo discussion FS\_Ambient\_IoT\_solutions

Proposal 3. RAN2 to support the scenario that one A-IoT device can be required to respond respectively to A-IoT paging messages from different readers associated with the same service.

**Paging ID**

[R2-2500425](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500425.zip) Discussion on Ambient IoT Paging Apple discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 2 RAN2 confirms that “one identifier” requirement in the paging message includes both the case of “one device identifier” and “one group identifier”, while the exact format of latter is supposed to be designed by SA2.

[R2-2500129](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500129.zip) Discussion on AIoT Paging vivo discussion FS\_Ambient\_IoT\_solutions

Proposal 1. The paging identifier is transparent to the A-IoT MAC Layer, in a form of MAC SDU with a variable size.

[R2-2500777](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500777.zip) Paging procedure for A-IoT ZTE Corporation, Sanechips discussion

Proposal 1a: It’s suggested to explicitly include the device ID information in A-IoT Paging message, with intention to make it visible to the device’s MAC entity.

Proposal 1b: In R19, it’s suggested to mainly support providing information of structured device ID and the corresponding “mask/filter” as the device ID information.

**Resource Information**

[R2-2500305](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500305.zip) Discussions on AIoT paging Samsung discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 3-1: RAN2 is kindly asked to agree that the A-IoT paging message can include the number of access occasions.

Proposal 3-2: RAN2 is kindly asked to discuss whether and how to support the dedicated access occasion assignment for multiple devices in one A-IoT Paging message with intention of configuring the contention-free random access.

[R2-2500088](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500088.zip) Discussion on ambient IoT paging LG Electronics Inc. discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 5: A-IoT paging message should not include subsequent random access procedure type (e.g., whether CBRA or CFRA); an implicit indication (e.g., based on the number of access occasions) is sufficient.

**Service Type Indication**

[R2-2500716](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500716.zip) Paging design for Ambient IoT Nokia discussion Ambient\_IoT\_Solutions-Core

Proposal 5: The reader differentiates service type "inventory only" and "inventory and command" to indicate to the device that a command may be delivered to it.

[R2-2500255](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500255.zip) Discussion on A-IOT paging procedure Xiaomi discussion Rel-19

Proposal 10: The service type of A-IoT (e.g., inventory only, command only, inventory + command) is not included in paging message.

[R2-2500163](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500163.zip) Discussion on paging procedure of A-IoT Spreadtrum, UNISOC discussion Rel-19

[R2-2500270](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500270.zip) Discussion on Paging for Ambient IoT CATT discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500414](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500414.zip) Discussion on Ambient IoT paging message design ASUSTeK discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500472](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500472.zip) Discussions on AIoT paging Fujitsu discussion Rel-19 FS\_Ambient\_IoT\_solutions

[R2-2500505](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500505.zip) Ambient-IoT Paging NEC discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500610](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500610.zip) Discussion on paging procedure for Ambient IoT Lenovo discussion Rel-19

[R2-2500642](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500642.zip) Discussion on A-IoT paging HONOR discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500660](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500660.zip) Discussion on A-IoT paging message Tejas Network Limited discussion Rel-19

[R2-2500676](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500676.zip) Discussion on A-IoT paging Panasonic discussion

[R2-2500738](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500738.zip) Considerations on paging for Ambient IoT Sony discussion Rel-19 FS\_Ambient\_IoT\_solutions

[R2-2500757](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500757.zip) Discussion on Paging for A-IoT Transsion Holdings discussion Rel-19

[R2-2500954](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500954.zip) Ambient IoT Paging Qualcomm Incorporated discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2501028](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501028.zip) Discussion on A-IoT paging CMCC discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501064](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501064.zip) Discussion on Ambient IoT Paging ETRI discussion Rel-19

[R2-2501067](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501067.zip) Discussion on Ambient IoT Paging Procedure China Telecom discussion

[R2-2501080](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501080.zip) Consideration of A-IoT paging for Ambient IoT Kyocera discussion Rel-19

[R2-2501249](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501249.zip) Discussions on A-IoT Paging Futurewei discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2501264](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501264.zip) AIOT Paging TCL discussion

[R2-2501316](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501316.zip) Discussions on ambient IoT paging ROBERT BOSCH GmbH 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, discussion on use of unified solution (i.e. solution 3)*

**Down-select 3-step CBRA or unified solution**

[R2-2500271](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500271.zip) Discussion on the Random Access for Ambient IoT CATT discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1: Only 3-step CBRA is supported for A-IoT.

[R2-2500778](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500778.zip) Random access procedure for A-IoT ZTE Corporation, Sanechips discussion

Proposal 1: Unified RACH is supported in Rel-19

**Alignment of CBRA and CFRA**

[R2-2500609](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500609.zip) Discussion on random access for Ambient IoT Lenovo discussion Rel-19

Proposal 6: Not support unification between CBRA and CFRA from AIoT device perspective.

**Assignment for re-access resource**

[R2-2500164](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500164.zip) Discussion on A-IoT random access Spreadtrum, UNISOC discussion Rel-19

Proposal 1: Reader can assign some access occasions for re-access purpose between two A-IoT paging (e.g. in the next access round).

[R2-2500426](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500426.zip) Discussion on Random Access for Ambient IoT Apple discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 7 D2R resources for initial access and re-access resource are not distinguished.

**Performing re-access**

[R2-2500271](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500271.zip) Discussion on the Random Access for Ambient IoT CATT discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 2b: If the device that joins the current round suffers from access failure, it should join the next round triggered by the subsequent A-IoT paging to perform re-access**.**

[R2-2500473](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500473.zip) Discussions on AIoT Random Access Fujitsu discussion Rel-19 FS\_Ambient\_IoT\_solutions

Proposal 3: To support re-access before subsequent paging, dedicate access occasions triggered by a special R2D trigger message in the same access round may be used for re-access by the A-IoT devices which experienced access failure in the previous access occasions.

**Success/failure indication**

[R2-2500426](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500426.zip) Discussion on Random Access for Ambient IoT Apple discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 4 *Msg3Feedback* (i.e., positive feedback) is only needed if Msg3 is received successfully and the reader has no follow-up “R2D data” to send.

[R2-2500130](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500130.zip) Random Access Procedure for AIoT Device vivo discussion FS\_Ambient\_IoT\_solutions

Proposal 4: Introduce a MAC NACK with device’s RN16 for D2R transmission failure indication and then device triggers re-access.

**MSG2 design**

[R2-2500301](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500301.zip) A-IoT random access procedure Huawei, HiSilicon discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 6: RAN2 assumes that one Msg2 can include one or multiple echoed random IDs for multiple devices, e.g., in FDMA case.

[R2-2500609](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500609.zip) Discussion on random access for Ambient IoT Lenovo discussion Rel-19

Proposal 13: AIoT Msg2 includes the time-frequency resource information for AIoT Msg3.

[R2-2500176](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500176.zip) Downselection of ambient IoT random access procedures MediaTek Inc. discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2500254](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500254.zip) Discussion on access procedure for A-IOT Xiaomi discussion Rel-19

[R2-2500297](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500297.zip) Random Access for Ambient IoT device NEC discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500375](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500375.zip) Ambient-IoT Random Access Ofinno, LLC discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500448](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500448.zip) Considerations for paging re-access on D2R failure Panasonic discussion Rel-19

[R2-2500455](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500455.zip) Discussion on random access for A-IoT OPPO discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500494](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500494.zip) Random Access Procedure for Ambient IOT InterDigital discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500415](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500415.zip) Unified solution for Ambient IoT random access type ASUSTeK discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500572](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500572.zip) Discussion on random access for A-IoT China Telecom discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500643](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500643.zip) Discussion on A-IoT random access HONOR discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500661](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500661.zip) Discussion on A-IoT random access Tejas Network Limited discussion Rel-19

[R2-2500714](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500714.zip) Signalling design for random access Nokia discussion Ambient\_IoT\_Solutions-Core

[R2-2500758](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500758.zip) Discussion on Random Access for A-IoT Transsion Holdings discussion Rel-19

[R2-2500863](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500863.zip) Discussion on UL multiple access Ericsson discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501013](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501013.zip) Further consideration on A-IoT random access CMCC discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501081](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501081.zip) Consideration of A-IoT random access for Ambient IoT Kyocera discussion Rel-19

[R2-2501126](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501126.zip) Views on Random Access Aspects of Ambient IoT Qualcomm Incorporated discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2501128](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501128.zip) Discussion on random access aspects for Ambient IoT LG Electronics Inc. discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501142](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501142.zip) Discussion on AIoT random access procedure NTT DOCOMO, INC. discussion Rel-19

[R2-2501145](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501145.zip) Discussion on random access for ambient IoT Google Ireland Limited discussion Ambient\_IoT\_Solutions

[R2-2501266](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501266.zip) Discussion on unified CBRA procedures for Ambient IoT Samsung 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 format, data (re)transmission for failure handling, segmentation for D2R, AS ID, message size information/command type information pending SA2 input, etc.*

**How to assign AS ID**

[R2-2500974](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500974.zip) A-IoT Data Transmission and Other General Aspects Ericsson discussion Rel-19 38.321 Ambient\_IoT\_Solutions-Core

Proposal 18 AS ID is promoted from the RN16 randomly generated by the device (option 1).

[R2-2500177](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500177.zip) Ambient IoT AS id management and relation to energy status indication MediaTek Inc. discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 4: The reader can assign an AS ID to the device in Msg2.

[R2-2501127](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501127.zip) Data Transmission and Other General Aspects of Ambient IoT Qualcomm Incorporated discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 10: It is up to Reader to decide whether to reuse the random ID (if sent in the first D2R message) as the AS ID or to assign a new AS ID.

**AS ID for CFRA**

[R2-2500213](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500213.zip) A-IoT data transmission and general aspects Huawei, HiSilicon discussion Rel-19

Proposal 9: RAN2 assumes there is no need of AS ID for CFRA case (i.e., only single device is handled during the current procedure).

**Message for AS ID Assignment (If option 2 or option 3 agreed)**

[R2-2500387](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500387.zip) Discussion on A-IoT data transmission and other general aspects Lenovo discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 9: For CBRA, Msg2 is used to provide AS ID if AS ID is assigned by reader.

Proposal 10: For CFRA, AIoT paging message is used to provide AS ID if AS ID is assigned by reader.

**Validity Time of the AS ID**

[R2-2500131](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500131.zip) AIoT Data Transmission vivo discussion FS\_Ambient\_IoT\_solutions

Proposal 6. The AS ID can be maintained at device and reader side, and released on a timer expiry or an explicit indication from reader.

[R2-2500495](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500495.zip) Data Transmission and General Aspects for Ambient IOT InterDigital discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 4: RAN2 downselects between the following options for determining when the device releases its AS ID: 1) Following completion of one or more data exchanges (i.e., command); 2) Following reception of one or more D2R “sync” messages after data exchange; 3) based on reception of an explicit indication (e.g., MAC CE) from the reader.

**Segmentation Indication**

[R2-2500253](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500253.zip) Protocol design principle and considerations on Data transmission Xiaomi discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 14: 1-bit indication is introduced to indicate whether the data is segmented and whether it is the last segment.

[R2-2500454](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500454.zip) Discussion on AIoT data transmission related functionalities OPPO discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 2 Introduce one-bit flag for identification of not last segment/last segment in the A-IOT D2R MAC PDU.

Proposal 3 Introduce one-bit flag for indication of segment or an integrated complete D2R message in the A-IOT D2R MAC PDU.

[R2-2501127](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501127.zip) Data Transmission and Other General Aspects of Ambient IoT Qualcomm Incorporated discussion Rel-19 Ambient\_IoT\_Solutions-Core

Proposal 7: To support segmentation, two-bit segment indication is supported. The Segmentation Info (SI) field in NR RLC PDU can be as a baseline solution.

[R2-2500474](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500474.zip) Discussions on Data Transmission and Other General Aspects Fujitsu discussion Rel-19 FS\_Ambient\_IoT\_solutions

Proposal 6: If message size information reporting is supported by the A-IoT device, this information can be used as an indication to reader whether the data is segmented and whether it is last segment.

**Segmentation Retransmission**

[R2-2500779](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500779.zip) MAC layer design and other aspects for A-IoT ZTE Corporation, Sanechips discussion

Proposal 9b: If ACK is received, the device transmits the next segment of data from upper layers (size of the segment is the TB size in the latest grant).

Proposal 9c: If NACK is received, the device retransmits the upper layer bits starting from the beginning of the previous segment (again size of the segment is the TB size in the latest grant).

[R2-2500213](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500213.zip) A-IoT data transmission and general aspects Huawei, HiSilicon discussion Rel-19

Proposal 5: Segment re-transmission is not supported.

**R2D Segmentation**

[R2-2501030](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501030.zip) Discussion on functionality for A-IoT CMCC discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1: RAN2 confirm only support D2R segmentation for R19 A-IoT.

**Procedures to consider**

[R2-2500387](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500387.zip) Discussion on A-IoT data transmission and other general aspects Lenovo discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1: From RAN2 perspective only the following types of procedures will be considered in the normative phase: “Inventory only” and “Inventory and command”.

**General MAC PDU Format**

[R2-2500573](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500573.zip) Considerations on A-IoT data transmission and other general aspects China Telecom discussion Rel-19 Ambient\_IoT\_Solutions

Proposal 1. A-IoT MAC subPDU structure can be either MAC subheader+MAC message or MAC message only.

Proposal 3. A-IoT MAC message may consists of A-IoT MAC SDU, or A-IoT MAC CE, or A-IoT MAC CE+A-IoT MAC SDU, or A-IoT MAC CE1+A-IoT MAC CE2.

Proposal 4. A message type indication is required in front of the MAC subPDU.

**MAC PDU Formats**

[R2-2500779](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500779.zip) MAC layer design and other aspects for A-IoT ZTE Corporation, Sanechips discussion

Proposal 6a: For A-IoT, it’s suggested to support different types of MAC PDU for different MAC functions, at least the following MAC PDUs can be considered:

- DL MAC PDU (Paging/MSG0)

- DL MAC PDU (R2D trigger)

- UL MAC PDU (MSG1)

- DL MAC PDU (MSG2)

- UL MAC PDU (MSG3)

- DL MAC PDU (DL data)

- UL MAC PDU (UL data)

**Control Information Format**

[R2-2500557](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500557.zip) Ambient IoT MAC design for UL and DL data transmission Apple discussion

Proposal 2: Fixed length “control header” in MAC PDU.

Proposal 3: Fixed control bit assignment in control header.

[R2-2500178](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500178.zip) Ambient IoT segmentation (both directions) MediaTek Inc. discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2500272](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500272.zip) Discussion on the A-IoT Data Transmission and Other General Aspects CATT discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500306](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500306.zip) Discussion on A-IoT data transmission Samsung discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2500499](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500499.zip) Discussion on A-IoT data segmentation and transmission KT Corp. discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2500573](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500573.zip) Considerations on A-IoT data transmission and other general aspects China Telecom discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500644](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500644.zip) Discussion on Data Transmission for Ambient IoT HONOR discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2500672](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500672.zip) Discussion on AS ID, segmentation and control signaling format Panasonic discussion

[R2-2500732](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500732.zip) Ambient-IoT Data transmission NEC Corporation discussion Rel-19 Ambient\_IoT\_Solutions-Core

[R2-2500739](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500739.zip) Considerations on segmentation Sony discussion Rel-19 FS\_Ambient\_IoT\_solutions

[R2-2500821](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500821.zip) Discussion on AS ID Continental Automotive discussion

[R2-2500920](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500920.zip) Discussion on AIoT general aspects NTT DOCOMO, INC. discussion Rel-19

[R2-2500951](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500951.zip) Discussion on data transmission and general aspects Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2501082](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501082.zip) Consideration of A-IoT data transmission for Ambient IoT Kyocera discussion Rel-19

[R2-2501138](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501138.zip) Discussion on A-IoT data transmission LG Electronics Inc. discussion Rel-19 Ambient\_IoT\_Solutions

[R2-2501178](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501178.zip) Discussion on AS ID for ambient IoT Google Ireland Limited discussion Ambient\_IoT\_Solutions

[R2-2501232](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501232.zip) AIoT General Aspects Nokia discussion Rel-19

[R2-2501250](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501250.zip) Discussions on A-IoT data transmission and other aspects Futurewei discussion Rel-19 Ambient\_IoT\_Solutions-Core

**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 [POST128][021][AI Mob] Templates for simulations (Mediatek/Oppo)*

[R2-2500287](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500287.zip) Text proposal of 38.744 OPPO pCR Rel-19 38.744 0.0.6 FS\_NR\_AIML\_Mob

[R2-2500288](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500288.zip) Discussion on work plan of AI mobility SI OPPO,MediaTek,Nokia,Interdigital discussion Rel-19 FS\_NR\_AIML\_Mob

8.3.2 RRM measurement prediction

8.3.2.1 Simulation results

*Contributions should focus on simulation results and observations on the agreed on prioritized scenarios and agreed assumptions. Further input on remaining issues related to RRM measurement prediction.*

*Any simulation results on non-prioritized scenarios should be clearly captured in separate section indicating “new scenarios”*

**AI vs Non-AI:**

[R2-2500639](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500639.zip) Discussion on simulation results for RRM measurement prediction Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 4: For Case B temporal domain prediction, RAN2 to capture that AI can provide gain (i.e., lower L3 cell-level RSRP difference) compared to Non-AI (i.e., Sample and Hold) and the gain increases as MRRT increases.

[R2-2500899](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500899.zip) Discussion on RRM measurement prediction ZTE Corporation discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 2: Regarding temporal domain prediction case B, the gain that AI can provide is more obvious in high speed scenario.

Observation 3: Regarding the temporal domain prediction case A, the gain that AI can provide increases with the increase of prediction window length.

[R2-2500946](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500946.zip) Simulation results for RRM measurement predictions Nokia discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 4: For case B, AI/ML methods may have potential for performance improvement compared to the baseline method at lower speeds. However, as speed increases, AI/ML methods may not consistently outperform the baseline.

**Single-cell vs. Cluster:**

[R2-2500890](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500890.zip) Additional simulation results for RRM measurement prediction Huawei, HiSilicon discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 3: For scenario 2 (intra-frequency case B), single cell approach outperforms significantly cluster-based approach.

[R2-2500639](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500639.zip) Discussion on simulation results for RRM measurement prediction Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 16: The cluster approach outperforms the cell-specific approach in frequency domain prediction.

Observation 17: In temporal domain prediction (intra-cell prediction), the measurement results of the target cell has the most directly correlated information and thus the cluster approach using measurement results from other cells may not be that useful.

Observation 18: In frequency domain prediction (inter-cell prediction), there is no measurement results for the target cell in input data and thus the cluster approach using measurement results from other cells can be relatively more useful.

**Template for capturing results in the TR:**

[R2-2500290](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500290.zip) Analysis on simulation results of RRM measurement prediction OPPO discussion Rel-19 FS\_NR\_AIML\_Mob (moved from 8.3.2.2)

Proposal 1: Capture Figure 1 (complexity of AI/ML models in terms of FLOPs and number of parameters for 3 high-priority scenarios) into TR

 Note: the figure can be revised accordingly if the dataset changes.

Proposal 2: Average L3 cell RSRP difference and worst (last) predicted point L3 cell RSRP difference of measurement results within PW is captured in TR

Proposal 3: For both temporal domain case A and case B, simulation result with different filtering approach is listed separately.

[R2-2500324](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500324.zip) Simulation result for RRM prediction and system level simulation MediaTek Inc. discussion

Proposal 3: RAN2 discuss the parameters/settings to compare the performance. One approach is to categorize all results based on the parameters in Group A. The results with the same parameter listed in Group A are comparable and used to derive the statistical result, while the other parameters listed in Group B do not affect the categorization and can be compared together.

Proposal 4: The definition of Groups A and B can be the scenario setting group and implemented option group given in Table 5, other options are FFS.

Proposal 5: RAN2 discuss the way to handle the statistics from the results with different parameters in Group B. Other options are not precluded.

* Option 1 (Take optimal): Take the optimal result, e.g., the one with the lowest RSRP, from each company.
* Option 2 (List all): Take all results from each company.

[R2-2500161](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500161.zip) Simulation results on RRM measurement prediction Spreadtrum, UNISOC, BUPT discussion Rel-19

[R2-2500167](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500167.zip) Discussion on RRM measurement predictions and prediction-based mobility events Sharp discussion Rel-19

[R2-2500214](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500214.zip) Simulation results of RRM measurement prediction vivo discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500313](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500313.zip) Discussions on simulation results of the RRM measurement prediction NTT DOCOMO, INC. discussion

[R2-2500406](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500406.zip) Simulation results for RRM measurement predictions Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500520](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500520.zip) Simulation results for RRM measurement prediction China Telecom Corporation Ltd. discussion Rel-19

[R2-2500852](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500852.zip) Simulation results for spatial domain RRM measurement predictions Ericsson discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501040](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501040.zip) Potential specification impact for RRM measurement prediction CMCC discussion Rel-19 FS\_NR\_AIML\_Mob

8.3.2.2 Model Generalization

*Including outcome of [Post128][018][AI Mob] generalization (Apple).*

*Contributions on generalization of UE speed and frequency can be submitted in this AI. Other aspects are “best effort” and depending on outcome of email discussions.*

**Generalization over UE speed:**

[R2-2500215](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500215.zip) Simulation results of model generalization for RRM measurement prediction vivo discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 1: For intra-frequency temporal domain prediction in FR1/FR2, when tested in a certain UE speed, the model trained with different UE speed (GC#1) or mixed UE speeds (GC#2) is comparable in prediction accuracy to the model trained in this certain UE speed (Baseline).

Observation 2: For intra-frequency temporal domain prediction in FR1/FR2, the model trained at a high UE speed shows better prediction accuracy when tested at a lower UE speed.

Observation 3: For intra-frequency temporal domain prediction in FR1/FR2, the model trained at a low UE speed shows worse prediction accuracy when tested at a higher UE speed.

Proposal 3: For intra-frequency temporal domain prediction in FR1/FR2, UE speed has a minor impact on the generalization performance.

[R2-2500407](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500407.zip) Generalization of AIML models for RRM measurement prediction Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 2: Using a mixed dataset (GC#2) slightly improves the accuracy of the AI/ML model compared to GC#1 cases, while offering comparable accuracy as the baseline case. Further increasing the amount of data within the mixed dataset (GC#2) offers minor improvement.

Observation 6: An AI/ML model trained with the mixed dataset in GC#2 has an accuracy equivalent to having multiple baseline models dedicated for specific UE speeds, while offering increased flexibility.

Observation 7: For GC#1, using an AI/ML model trained at a higher UE speed for inference at a lower UE speed achieves a closer performance to the baseline than using an AI/ML model trained at a lower UE speed for inference at a higher UE speed (e.g., training at 120 to infer on 90 is better than training at 60 to infer on 90, training at 120 to infer on 60 is better than training at 60 to infer on 120, etc.)

Observation 8: For GC#1, as the difference between the UE speed that an AI/ML model trained at and the UE speed that the inference is being made decreases, the AI/ML achieves a closer performance to the baseline.

[R2-2500314](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500314.zip) Discussions on generalization of RRM measurement prediction NTT DOCOMO, INC. discussion

Observation 1

On the generalization performance of FR1-to-FR1 temporal domain prediction Case B,

* For GC #1, the performance degradation from generalization can be observed, but the average RSRP gap increases by less than 0.03 dB, which does not significantly impact the performance.
* For GC #2, when the AI/ML model is trained with multiple UE speeds, the performance degradation is reduced to <0.01 dB. The generalization over UE speed can be achieved.

Observation 2

On the generalization performance of F[R2-to](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-to.zip)-FR2 temporal domain prediction Case A,

* For GC#1, significant generalization loss is observed from the simulation results.
* For GC #2, when the AI/ML model is trained with multiple UE speeds, the generalized model achieves better performance, comparable to GC#1.

**Generalization over frequency:**

[R2-2500851](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500851.zip) Generalization of the AI/ML models for RRM prediction Ericsson discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 8 Generalization using GC#2 always outperform that of GC#1

Observation 9 Training and generalization using the knowledge about the input & output frequency (or even an indication) outperforms the case where the model cannot recognize which frequency at the input or output.

Observation 10 Even though GC#2 outperforms GC#1, it still performs poorly (2 to 3dB which is still > 1dB).

Observation 11 Generalization over flipped frequencies is difficult and may require additional effort.

Observation 12 There is no clear and useful use-case for flipped frequency generalization.

Proposal 2 Investigate generalization over a third (and maybe fourth) frequency carrier, as a generalization use-case of frequency prediction instead of flipped frequency.

[R2-2500318](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500318.zip) Model Generalization for AIML RRM Prediction MediaTek Inc. discussion

Observation 3: Considering the generalization parameter of different predicted frequencies in inter-freq prediction, the GC#1 case without any preprocessing based on the information of predicted frequency suffers from significant performance loss.

Observation 4: For GC#2 case, the prediction accuracy is acceptable and outperforms the non-AI approach.

[R2-2500243](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500243.zip) Simulation results of Model Generalization CATT, Turkcell discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 5: The RSRP difference in GC#2 trained with partial data set of each frequency is larger than baseline RSRP difference for FR1 to FR1 Inter-frequency.

Observation 6: The RSRP difference in GC#1 is the highest among all generalization cases for FR1 to FR1 Inter-frequency.

Observation 7: The simulation results show that generalization with different frequencies is feasible for inter-frequency RRM predication for FR1 to FR1 Inter-frequency.

**Further generalization parameters:**

[R2-2500559](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500559.zip) Email discussion summary for [Post128][018][AI Mob] generalization (Apple) Apple discussion

Proposal 1: two sets of parameters (ISD, BS antenna height, BS Tx power) are used for the generalization across cell configurations study.

Proposal 2: FR1 is the primary focus, companies can also submit results for FR2 (however, each set of generalization results covers either FR1 or FR2).

Proposal 3: agree on the two sets of configurations as in tables 2 and 3 (for FR1 and FR2).

|  |  |  |
| --- | --- | --- |
| Parameter | Configuration #A | Configuration #B |
| Deployment scenario  | UMi | UMa |
| ISD | 200m | 500m |
| BS antenna height | 10m | 25m |
| BS Tx power | 40dBm | 44dBm |

*Table 2: generalization parameters for FR1*

|  |  |  |
| --- | --- | --- |
| Parameter | Configuration #A | Configuration #B |
| Deployment scenario | UMa | UMi |
| ISD | 200m | 500m |
| BS antenna height | 10m | 25m |
| BS Tx power | 40dBm | 44dBm |

*Table 3: generalization parameters for FR2*

Proposal 4: to discuss whether to include the following additional parameters: BS antenna configuration, number of Tx beams.

Proposal 5: to discuss whether/how to use field data for the generalization study.

Proposal 6: to discuss whether to consider control of random seeds (for spatial channel model, UE trajectory).

Proposal 7: to discuss whether to consider number of cells.

[R2-2500289](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500289.zip) Discussion on model generalization of RRM measurement prediction OPPO discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500542](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500542.zip) Discussion on Generalization Issues for AI/ML Mobility Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500601](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500601.zip) Simulation results on Model Generalization for RRM measurement prediction Spreadtrum, UNISOC, BUPT discussion Rel-19

[R2-2500800](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500800.zip) Discussion on generalization performance over UE speed of GC1 Xiaomi discussion

[R2-2500801](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500801.zip) Discussion on generalization performance over UE speed of GC2 Xiaomi discussion

[R2-2500891](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500891.zip) Model generalization evaluation for RRM measurement prediction Huawei, HiSilicon discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500900](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500900.zip) Discussion on model generalization of RRM measurement prediction ZTE Corporation discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500948](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500948.zip) Generalization of ML mobility use-cases Nokia, Nokia Shanghai Bell discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501052](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501052.zip) Discussion on model generalization CMCC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501071](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501071.zip) Simulation Results for Model Generalization Qualcomm Incorporated discussion Rel-19

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.



Objective in Case B (FR1): Predict A3 events in the presence of skipped measurements, i.e., overhead reduction while maintaining similar HO performance.

**Indirect prediction: Case A**

[R2-2500291](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500291.zip) Discussion on simulation results of measurement event prediction OPPO discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 1: Measurement event case A: The prediction of measurement event is pretty good with F1 score consistently above 0.9.

Observation 2: Measurement event case A: Legacy-driven prediction approach (i.e. handovers are managed purely through legacy processes, while predictions are used solely to calculate the F1 score.) achieves a higher F1 score than SLS method (i.e., prediction results directly influence handover decisions), because the number of true predictions has been counted repeatedly.

Observation 3: Measurement event case A: AI/ML performs better than baseline (legacy) in terms of HO failure rate. Compared to the baseline, handover decision option 3 reduces HO failure rate from 28.96% to 24.20%.

Observation 4: Measurement event case A: AI/ML prediction with handover decision option 3 outperforms option 2.

[R2-2500640](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500640.zip) Simulation results for measurement event prediction and system level performance Samsung discussion Rel-19 FS\_NR\_AIML\_Mob

Proposal 3. For indirect measurement event prediction, capture that the prediction accuracy (i.e., F1 score) increases with UE speed.

[R2-2500319](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500319.zip) Preliminary results of indirect prediction and simulation assumption for direct prediction MediaTek Inc. discussion

Observation 3: For indirect event prediction temporal domain case A, AI-based HO can provide ~11% gain (in terms of camp on best cell rate) and ~42% gain (in terms of average ToS) compared to the legacy HO approach and without increase of the total number of HOF per UE per second. The improvement is more significant in the short TTT case, e.g., 160ms, than in the longer TTT cases, e.g., 320ms.

Observation 5: A lower TTT (160 ms) has better intermediate performance, including F1 score, Precision, and Recall), compared to a higher TTT (320 ms). The model demonstrates enhanced accuracy and reliability with a reduced TTT duration.

Proposal 4: RAN2 capture the observation in the TR that the system performance of temporal domain case A can be improved by indirect measurement event prediction with the method that the UE starts inference when the entering condition of the event is fulfilled, and AI predicts if the occurring event is valid in the prediction window. Evaluation on other methods is not precluded.

Proposal 5: RAN2 considers including the “total number of HOF per UE per second” as one of the system-level performance indicators.

**Indirect prediction: Case B:**

[R2-2500244](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500244.zip) Simulation results of event A3 prediction CATT, Turkcell discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 3: Precision for temporal domain Case B is almost the same as that of temporal domain Case A which is around 0.9.

Observation 4d: F1 score for temporal domain Case B is smaller than that of for temporal domain Case A.

[R2-2500892](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500892.zip) Simulation results for measurement event prediction Huawei, HiSilicon discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 2: PW length has a significant impact on measurement event accuracy (F1 score) which decreases quickly when PW length is increased.

Observation 5: F1 score decreases with an increasing UE speed.

Observation 6: F1 score decreases with an increasing MRRT value.

[R2-2500216](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500216.zip) Simulation results of measurement event prediction and SLS vivo discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 9: With indirect measurement event prediction based on temporal domain Case B (MRRT=50%), the AI-based HO has a minor system-level performance (i.e., HOF rate and HO number) decrease compared with the legacy HO mechanism.

**Direct prediction:**

[R2-2500560](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500560.zip) On measurement event prediction Apple discussion

Observation 1: direct measurement prediction works well with very high (above 0.9) Precision, Recall and F1-score values.

Observation 2: even very simple models (such as logistic regression) provide good results at very low complexity.

Observation 3: 800ms OW is the sweet spot, i.e. larger OW does not provide visible performance gains.

Observation 5: 50% probability threshold works well (for direct prediction).

[R2-2500947](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500947.zip) On the measurement event prediction Nokia discussion Rel-19 FS\_NR\_AIML\_Mob

Observation 10: The direct prediction method achieves higher ROC AUC whereas the indirect prediction achieves higher F1 score.

Observation 11: The ROC AUC score can be used to complement the F1 score and obtain a better representation of the model’s performance.

Proposal 4: In addition to F1 score, consider also ROC AUC score of classifier methods as a performance metric.

[R2-2500245](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500245.zip) Simulation results of AI based Handover performance CATT, Turkcell discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500299](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500299.zip) Simulation assumption for Measurement event prediction NEC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500315](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500315.zip) Discussions on measurement event prediction NTT DOCOMO, INC. discussion

[R2-2500399](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500399.zip) Simulation results for measurement event prediction Xiaomi discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500408](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500408.zip) Measurement event predictions Interdigital Inc. discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2500919](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500919.zip) Evaluation of measurement event prediction Ericsson discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501041](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501041.zip) Simulation results for Measurement event predictions CMCC discussion Rel-19 FS\_NR\_AIML\_Mob

[R2-2501070](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501070.zip) Measurement Event prediction and handover modelling Qualcomm Incorporated discussion Rel-19

[R2-2501072](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501072.zip) Simulation Results for Measurement Event Predictions Qualcomm Incorporated discussion Rel-19 Late

[R2-2501241](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501241.zip) Discussion on system level simulation ETRI discussion

[R2-2501293](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501293.zip) Discussion on measurement event prediction ZTE Corporation discussion Rel-19 FS\_NR\_AIML\_Mob

8.3.4 RLF/HO failure prediction

*No contributions expected for this meeting*

*Contributions should focus on discussing RLF specific methodology and simulation assumptions (addressing the differences or additional aspects from RRM predicution asssumptions).*

*Relevant metrics and assumptions not covered by email discussion*

*No evaluations/simulation results expected for this meeting*

[R2-2500327](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500327.zip) AI-ML based RLF/HO failure prediction Rakuten Mobile, Inc discussion Rel-19

[R2-2500734](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500734.zip) Discussion on simulation metric for RLF prediction KDDI Corporation discussion

## 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, etc.

[R2-2500012](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500012.zip) LS on LP-WUS operation in CONNECTED mode (R1-2410909; contact: NTT DOCOMO) RAN1 LS in Rel-19 NR\_LPWUS To:RAN2

[R2-2500050](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500050.zip) LS Reply on LP-WUS subgrouping (S2-2412876; contact: Huawei) SA2 LS in Rel-19 NR\_LPWUS-Core To:RAN2, RAN3, CT1

[R2-2500150](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500150.zip) LR and MR operating frequencies Vodafone, Huawei, HiSilicon,Vivo discussion Rel-19

[R2-2500302](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500302.zip) Discussion on SA2 LS on LP-WUS subgrouping Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

[R2-2501092](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501092.zip) Introduction of LP-WUS/LP-WUR Ericsson draftCR Rel-19 38.331 18.4.0 F 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, entry/exit condition for LP-WUS monitoring, and separate band issues following WF in RP‑243266

[R2-2500135](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500135.zip) Discussion of LR and MR operating in same/different frequency band MediaTek Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2500143](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500143.zip) General considerations on the procedure for RRC\_IDLE\_INACTIVE Xiaomi Communications discussion

[R2-2500158](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500158.zip) Discussion on procedure and configuration of LP-WUS in RRC\_IDLE/INACTIVE Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

[R2-2500246](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500246.zip) LP-WUS in RRC\_IDLE/INACTIVE CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2500282](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500282.zip) Discussion on LP-WUS in RRC\_IDLE/INACTIVE NEC discussion NR\_LPWUS-Core

[R2-2500343](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500343.zip) Discussion on LP-WUS WUR in RRC\_IDLE INACTIVE vivo discussion Rel-19 NR\_LPWUS-Core

[R2-2500456](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500456.zip) Discussion on LP-WUS procedure and configuration OPPO discussion Rel-19 NR\_LPWUS-Core

[R2-2500589](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500589.zip) Procedure and configuration of LP-WUS in RRC\_IDLE/INACTIVE Apple discussion Rel-19 NR\_LPWUS-Core

[R2-2500645](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500645.zip) Discussion on LP-WUS in RRC\_IDLE/INACTIVE HONOR discussion Rel-19 NR\_LPWUS-Core

[R2-2500663](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500663.zip) On Idle/Inactive mode procedures for LP-WUS Tejas Network Limited discussion Rel-19

[R2-2500740](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500740.zip) RAN2 aspects on LP-WUS/WUR in RRC Idle/Inactive mode Sony discussion Rel-19 NR\_LPWUS-Core

[R2-2500857](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500857.zip) Procedure and Configuration of LP-WUS in RRC IDLE/INACTIVE Lenovo discussion NR\_LPWUS-Core

[R2-2500868](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500868.zip) LP-WUS operation in RRC\_IDLE and RRC\_INACTIVE LG Electronics Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2500943](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500943.zip) Discussion on LP-WUS operation in RRC\_IDLE/INACTIVE modes InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2500993](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500993.zip) LP-WUS in IDLE and INACTIVE Nokia discussion Rel-19 NR\_LPWUS-Core

[R2-2501002](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501002.zip) Discussion on the LP-WUS handling for Emergency call back NTT DOCOMO INC.. discussion Rel-19

[R2-2501006](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501006.zip) Discussion on RRC CONNECTION load balancing for LP-WUS capable UEs NTT DOCOMO INC.. discussion Rel-19

[R2-2501017](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501017.zip) Further considerations on LP-WUS operation in IDLE INACTIVE mode CMCC discussion Rel-19 NR\_LPWUS-Core

[R2-2501075](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501075.zip) Discussion on LP-WUS in RRC\_IDLE and RRC\_INACTIVE Sharp discussion Rel-19

[R2-2501089](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501089.zip) Procedure and configuration of LP-WUS for IDLE and INACTIVE mode ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

[R2-2501093](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501093.zip) LP-WUS in Idle and Inactive Ericsson discussion Rel-19 NR\_LPWUS-Core [R2-2410085](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410085.zip)

[R2-2501132](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501132.zip) Procedure and Configuration of LP-WUS in RRC Idle Inactive Mode Samsung discussion Rel-19

[R2-2501252](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501252.zip) LP-WUS operation in IDLE/Inactive state Qualcomm Incorporated discussion 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

[R2-2500144](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500144.zip) Discussion on RRM measurement relaxation for RRC\_IDLE\_INACTIVE Xiaomi Communications discussion

[R2-2500201](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500201.zip) Further discussion on the criteria for RRM measurement relaxation and offloading Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

[R2-2500247](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500247.zip) RRM Relaxation and Offloading in RRC\_IDLE/INACTIVE CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2500283](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500283.zip) Discussion on LP-WUS RRM relaxation and offloading NEC discussion NR\_LPWUS-Core

[R2-2500344](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500344.zip) Discussion on RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE vivo discussion Rel-19 NR\_LPWUS-Core

[R2-2500457](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500457.zip) Discussion on RRM measurement in RRC IDLE and INACTIVE OPPO discussion Rel-19 NR\_LPWUS-Core

[R2-2500590](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500590.zip) RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE Apple discussion Rel-19 NR\_LPWUS-Core

[R2-2500608](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500608.zip) RRM measurement relaxation and offloading in RRC\_IDLE/INACTIVE Lenovo discussion Rel-19

[R2-2500869](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500869.zip) RRM relaxation and RRM offloading LG Electronics Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2500944](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500944.zip) Discussion on RRM measurement relaxation and offloading InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2500994](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500994.zip) RRM measurement relaxation in RRC\_IDLE/INACTIVE Nokia discussion Rel-19 NR\_LPWUS-Core

[R2-2501043](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501043.zip) Discussion on RRM measurement relaxation and offloading in RRC\_IDLE INACTIVE CMCC discussion Rel-19 NR\_LPWUS-Core

[R2-2501068](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501068.zip) Discussion on RRM measurement relaxation and offloading for RRC\_IDLE/INACTIVE China Telecom discussion

[R2-2501076](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501076.zip) Discussion on RRM measurement relaxation and offloading Sharp discussion Rel-19

[R2-2501090](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501090.zip) RRM measurement relaxation and offloading in RRC\_IDLE and RRC\_INACTIVE mode ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

[R2-2501094](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501094.zip) LP-WUS and RRM measurements Ericsson discussion Rel-19 NR\_LPWUS-Core [R2-2410086](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410086.zip)

[R2-2501131](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501131.zip) Discussion on neighboring cell measurement with LR InterDigital, Ericsson, Nokia, Sony, Vodafone discussion Rel-19 NR\_LPWUS-Core

[R2-2501133](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501133.zip) RRM measurement relaxation and offloading in RRC Idle Inactive Mode Samsung discussion Rel-19

[R2-2501254](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501254.zip) LP-WUS RRM measurement relaxation and offloading Qualcomm Incorporated discussion NR\_LPWUS-Core

### 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.

[R2-2500074](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500074.zip) Discussing on LP-WUS monitoring in Connected mode Xiaomi discussion Rel-19 NR\_LPWUS-Core

[R2-2500248](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500248.zip) Analysis on LP-WUS for RRC\_CONNECTED CATT discussion Rel-19 NR\_LPWUS-Core

=> Revised in [R2-2501326](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501326.zip)

[R2-2501326](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501326.zip) Analysis on LP-WUS for RRC\_CONNECTED CATT discussion Rel-19 NR\_LPWUS-Core

[R2-2500284](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500284.zip) Discussion on LP-WUS in RRC\_CONNECTED NEC discussion NR\_LPWUS-Core

[R2-2500303](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500303.zip) Further discussion on LP-WUS for RRC\_CONNECTED mode Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

[R2-2500345](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500345.zip) Discussion on LP-WUS WUR in RRC\_Connected vivo discussion Rel-19 NR\_LPWUS-Core

[R2-2500458](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500458.zip) Discussion on LP-WUS in RRC\_CONNECTED OPPO discussion Rel-19 NR\_LPWUS-Core

[R2-2500591](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500591.zip) Procedures for LP-WUS in RRC\_CONNECTED Apple discussion Rel-19 NR\_LPWUS-Core

[R2-2500666](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500666.zip) LP-WUS operation in Connected mode Tejas Network Limited discussion Rel-19

[R2-2500717](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500717.zip) LP-WUS in CONNECTED mode InterDigital discussion Rel-19 NR\_LPWUS-Core

[R2-2500741](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500741.zip) Considerations on LP-WUS/WUR in RRC Connected mode Sony discussion Rel-19 NR\_LPWUS-Core

[R2-2500827](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500827.zip) Discussion on LP-WUS in RRC\_CONNECTED LG Electronics Inc. discussion Rel-19 NR\_LPWUS-Core

[R2-2500860](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500860.zip) LP-WUS in RRC Connected Mode Lenovo discussion NR\_LPWUS-Core

[R2-2501003](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501003.zip) Discussion on the LS from RAN1 on LP-WUS CONNECTED NTT DOCOMO INC.. discussion Rel-19

[R2-2501018](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501018.zip) Discussion on LP-WUS operation in CONNECTED mode CMCC discussion Rel-19 NR\_LPWUS-Core

[R2-2501077](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501077.zip) Discussion on LP-WUS in RRC\_CONNECTED Sharp discussion Rel-19

[R2-2501091](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501091.zip) Procedures for LP-WUS in RRC\_CONNECTED ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

[R2-2501095](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501095.zip) LP-WUS in Connected Ericsson discussion Rel-19 NR\_LPWUS-Core [R2-2410087](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410087.zip)

[R2-2501134](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501134.zip) Procedures for LP-WUS in RRC Connected Mode Samsung discussion Rel-19

[R2-2501201](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501201.zip) LP-WUS in RRC\_CONNECTED Nokia, Nokia Shanghai Bell discussion NR\_LPWUS-Core

[R2-2501253](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501253.zip) LP-WUS operation in CONNECTED state Qualcomm Incorporated discussion NR\_LPWUS-Core

## 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

Including incoming LSs and rapporteur inputs.

[R2-2500014](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500014.zip) Reply LS on SSB relation in On-demand SSB and SSB adaptation on Scell (R1-2410917; contact: Ericsson) RAN1 LS in Rel-19 Netw\_Energy\_NR\_enh To:RAN4 Cc:RAN2

[R2-2501245](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501245.zip) Running RRC CR for enhancements for network energy efficiency Ericsson draftCR Rel-19 38.331 18.4.0 Netw\_Energy\_NR\_enh-Core

### 8.5.2 On-demand SSB SCell operation

Remaining open issues on L3 measurement from RAN2#127b (including L3 measurement framework, whether always-on SSB and/or OD-SSB are measured in case 2, etc.), further details of OD-SSB MAC CE (dependent on RAN1 progress), etc.

[R2-2500075](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500075.zip) Discussion on on-demand SSB Xiaomi discussion

[R2-2500115](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500115.zip) Discussion on On-Demand SSB OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500171](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500171.zip) On-demand SSB SCell Operation Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500211](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500211.zip) Discussion on OD-SSB Rakuten Mobile, Inc discussion Rel-19

[R2-2500225](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500225.zip) Consideration on on-demand SSB SCell operation CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500256](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500256.zip) Discussion on on-demand SSB for Scell Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500334](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500334.zip) Remaining issues of on-demand SSB SCell operation vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500398](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500398.zip) Discussion on on-demand SSB SCell operation Sharp discussion Rel-19

[R2-2500502](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500502.zip) Further discussion on On-demand SSB for SCell NEC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500518](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500518.zip) Discussion on on-demand SSB SCell operation Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500551](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500551.zip) On demand SSB handling Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500626](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500626.zip) Issues on the procedure of on-demand SSB SCell operation Lenovo discussion Rel-19

[R2-2500646](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500646.zip) Discussion on on-demand SSB configuration HONOR discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500670](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500670.zip) On-demand SSB SCell operation Panasonic discussion Rel-19

[R2-2500691](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500691.zip) Discussion on on-demand SSB SCell operation for NES Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500731](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500731.zip) Discussion on on-demand SSB for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500742](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500742.zip) On-demand SSB Scell operation discussion Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500791](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500791.zip) On demand SSB transmission for SCell InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500870](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500870.zip) On-demand SSB SCell operation LG Electronics Inc. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501019](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501019.zip) Discussion on On-demand SSB for Scell CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501059](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501059.zip) Discussion on on-demand SSB SCell operation NTT DOCOMO, INC. discussion Rel-19

[R2-2501086](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501086.zip) Remaining issues of on demand SSB Scell operation ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501162](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501162.zip) Discussion on On-demand SSB SCell Operation Qualcomm Incorporated discussion Withdrawn

[R2-2501317](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501317.zip) Discussion on On-demand SSB SCell Operation Qualcomm Incorporated discussion

### 8.5.3 On-demand SIB1

Handling of RRC connected UEs (w/ consideration of RAN#106 discussion and endorsement), remaining essential feature level issues, etc.

[R2-2500170](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500170.zip) On-demand SIB1 Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500190](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500190.zip) Discussion on on-demand SIB1 Xiaomi discussion Rel-19

[R2-2500226](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500226.zip) Consideration on on-demand SIB1 CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500257](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500257.zip) Remaining issues on on-demand SIB1 Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500280](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500280.zip) Discussion on on-demand SIB1 for NES Rakuten Mobile, Inc discussion Rel-19

[R2-2500335](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500335.zip) Discussion on OD-SIB1 for RRC IDLE and INACTIVE UE vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500341](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500341.zip) Discussion on on-demand SIB1 operation for NES Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500396](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500396.zip) On-demand SIB1 WUS provisioning and UE behaviour NEC. discussion

[R2-2500449](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500449.zip) Discussion on Ondemand-SIB1 KDDI Corporation discussion Rel-19

[R2-2500463](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500463.zip) Discussion on the support for OD-SIB1 Google discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500519](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500519.zip) Discussion on on-demand SIB1 procedure for NES Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500552](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500552.zip) On demand SIB1 handling Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500647](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500647.zip) Discussion on on-demand SIB1 HONOR discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500671](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500671.zip) RAN Plenary outcome and other remaining issues Lenovo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500729](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500729.zip) Discussion on on-demand SIB1 for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500735](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500735.zip) Consideration on on-demand SIB1 OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500743](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500743.zip) Remaining details for on-demand SIB1 Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500789](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500789.zip) On-demand SIB1 request and reception InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500871](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500871.zip) On-demand transmission of SIB1 LG Electronics Inc. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500921](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500921.zip) Views on On-demand SIB1 operation for idle/inactive UEs Vodafone discussion Rel-19

[R2-2501008](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501008.zip) Discussion on handling RLF in a NES cell ITRI discussion Netw\_Energy\_NR\_enh-Core

[R2-2501020](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501020.zip) Discussion on On-demand SIB1 CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501061](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501061.zip) Discussion on on-demand SIB1 NTT DOCOMO, INC. discussion Rel-19

[R2-2501087](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501087.zip) Remaining issues of on demand SIB1 ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501157](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501157.zip) Discussion on on-demand SIB1 Jio discussion Rel-19 Late

[R2-2501163](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501163.zip) Discussion on On-demand SIB1 Qualcomm Incorporated discussion

[R2-2501192](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501192.zip) Discussion on remaining details of on-demand SIB1 SHARP Corporation discussion

[R2-2501216](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501216.zip) On-demand SIB1 for Idle/Inactive mode UEs III discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501270](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501270.zip) Discussion on On-demand SIB1 for NES Fraunhofer IIS, Fraunhofer HHI discussion Rel-19

### 8.5.4 Adaptation of common signal/channel transmissions

L3 measurement aspects on SSB adaptation (w/ the consideration of L3 measurements on OD-SSB), remaining open issues on paging adaptation from RAN2#129 discussion, RAN2 spec impacts and discussion from SSB adaptation and RACH adaptation (w/ consideration of the corresponding RAN1 progress), etc.

[R2-2500076](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500076.zip) Discussion on common signal adaptation Xiaomi discussion

[R2-2500149](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500149.zip) Discussion on common signal and channel adaptation LG Electronics Inc. discussion Rel-19

[R2-2500172](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500172.zip) Adaptation of common signal channel transmissions Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500199](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500199.zip) Discussion on adaptation of common signal channel transmission OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500227](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500227.zip) Adaptation of Common signal channel transmissions CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500258](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500258.zip) Discussion on common signal transmission adaptation Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500336](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500336.zip) Discussion on adaptation of common signal transmissions vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500397](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500397.zip) PRACH and paging adaptation for NES NEC discussion

[R2-2500416](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500416.zip) Discussion on PRACH adaptation ASUSTeK discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500475](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500475.zip) Adaptation of common signal or channel Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500553](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500553.zip) Adaptation of common signals Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500627](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500627.zip) Paging and PRACH adaptation Lenovo discussion Rel-19

[R2-2500692](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500692.zip) Discussion on adaptation of common signals/channels transmissions Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500744](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500744.zip) RAN2 impacts on SSB and RACH adaptations Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2500790](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500790.zip) Time domain adaptation of common signalling and channels InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501021](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501021.zip) Discussion on common signalling adaptation CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501062](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501062.zip) Discussion on adaptation of common signal and channel NTT DOCOMO, INC. discussion Rel-19

[R2-2501065](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501065.zip) Adaptation of common signal/channel transmissions for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501088](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501088.zip) Common signal/channel adaption ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

[R2-2501165](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501165.zip) Discussion on Adaptation of Common Signal/Channel Transmissions Qualcomm Incorporated discussion

[R2-2501231](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501231.zip) Discussion on RACH adaptation SHARP Corporation discussion Rel-19

## 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

Including incoming LSs, WI rapporteur inputs, stage 2 running CR to be endorsed, etc.

[R2-2500029](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500029.zip) Reply LS for LS on the support of semi-persistent CSI-RS resource for LTM candidate cells (R3-247911; contact: CATT) RAN3 LS in Rel-19 NR\_Mob\_Ph4-Core To:RAN1 Cc:RAN2

[R2-2500224](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500224.zip) UE capability of NR mobility enhancements CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500563](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500563.zip) Introduction of NR mobility enhancements Phase 4 in TS 37.340 China Telecom draftCR Rel-19 37.340 18.4.0 B NR\_Mob\_Ph4-Core

[R2-2500887](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500887.zip) Introduction of NR mobility enhancements Phase 4 in TS 38.300 Apple draftCR Rel-19 38.300 18.4.0 B NR\_Mob\_Ph4-Core

[R2-2500991](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500991.zip) List of FFSs for LTM and CLTM Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500992](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500992.zip) Running RRC CR for inter-CU and conditional LTM Ericsson draftCR Rel-19 38.331 18.4.0 B NR\_Mob\_Ph4-Core

[R2-2501203](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501203.zip) Running MAC CR for Mob Ph4 vivo (Rapporteur) draftCR Rel-19 38.321 18.4.0 B NR\_Mob\_Ph4-Core

[R2-2501204](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501204.zip) Summary of [POST128][109][MOB] Open issues (vivo) vivo (Rapporteur) discussion Rel-19 NR\_Mob\_Ph4-Core

### 8.6.2 Inter-CU LTM

Inter-CU LTM part of [POST128][107] and [POST128][109], remaining essential feature level issues, etc.

[R2-2500132](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500132.zip) Leftover issues on Inter-CU LTM MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500136](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500136.zip) Discussion on remaining issues of inter-CU LTM LG Electronics Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500147](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500147.zip) Remaining issues on inter-CU LTM in DC cases Fujitsu discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500207](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500207.zip) Discussion on open issues for inter-CU LTM OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500221](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500221.zip) Discussion on Inter-CU LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500304](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500304.zip) Further Considerations to Support Inter-CU LTM Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500326](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500326.zip) Discussion on Inter-CU LTM Rakuten Mobile, Inc discussion Rel-19

[R2-2500346](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500346.zip) Discussion on inter-CU LTM vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500423](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500423.zip) Discussion on inter-CU LTM Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500442](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500442.zip) Discussion on inter-CU LTM ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500504](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500504.zip) Discussion on inter-CU LTM NEC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500564](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500564.zip) Discussion on inter-CU LTM China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500581](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500581.zip) Remaining issues in Inter-CU LTM Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500630](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500630.zip) Some issues for Inter-CU LTM Lenovo discussion Rel-19

[R2-2500648](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500648.zip) Further discussion on inter-CU LTM HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500667](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500667.zip) Discussion on remaining FFSs for inter-CU LTM Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500745](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500745.zip) LTM for Inter-CU Sony discussion Rel-19 NR\_Mob\_Ph4

[R2-2500759](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500759.zip) Further discussion on supporting inter-CU LTM cell switch Transsion Holdings discussion Rel-19

[R2-2500795](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500795.zip) Further analysis on Inter-CU LTM open issue Nokia discussion

[R2-2500964](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500964.zip) Inter-CU LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501009](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501009.zip) Reference configuration for inter-CU LTM ITRI discussion NR\_Mob\_Ph4-Core

[R2-2501022](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501022.zip) Discussion on Inter-CU LTM CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501193](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501193.zip) Discussion on issues for supporting inter-CU LTM Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501296](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501296.zip) Discussion on inter-CU LTM DENSO CORPORATION discussion Rel-19 NR\_Mob\_Ph4-Core

### 8.6.3 L1 event triggered measurement reporting

RAN2 impacts on supporting CSI-RS measurements and reporting, further details of MR MAC CE, [POST128][108], L1 event-driven MR part of [POST128][109], remaining essential feature level issues, etc.

[R2-2500133](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500133.zip) Remaining issues on event triggered L1 MR MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500208](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500208.zip) Open issues for event triggered L1 measurement reporting OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500222](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500222.zip) L1 event triggered measurement reporting CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500328](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500328.zip) Discussion on L1 event triggered measurement reporting Rakuten Mobile, Inc discussion Rel-19

[R2-2500332](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500332.zip) Further View on L1 Measurement Reporting Enhancements for Rel-19 LTM Nokia discussion Rel-19 NR\_Mob\_Ph4-Core [R2-2410441](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410441.zip)

[R2-2500347](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500347.zip) Discussion on LTM measurement event evaluation and reporting vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500373](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500373.zip) Discussion on event triggered LTM report Ofinno, LLC discussion Rel-19 NR\_Mob\_Ph4

[R2-2500400](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500400.zip) Remaining issues of L1 event triggered measurement reporting Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500417](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500417.zip) Discussion on MR MAC CE for LTM ASUSTeK discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500443](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500443.zip) Discussion on L1 event triggered MR ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500476](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500476.zip) Discussions on event triggered L1 measurement reporting Fujitsu discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500485](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500485.zip) L1 event-triggered measurement reporting for LTM Qualcomm Incorporated discussion

[R2-2500503](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500503.zip) MAC CE for L1 event triggered measurement report NEC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500565](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500565.zip) Discussion on L1 event triggered measurement reporting China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500592](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500592.zip) LTM event triggered measurement reporting Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500631](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500631.zip) Event based L1 measurement report Lenovo discussion Rel-19

[R2-2500649](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500649.zip) Discussion on measurement event evaluation and report HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500668](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500668.zip) Discussions on event-based L1 measurements Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500760](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500760.zip) Discussion on L1 event triggered measurement reporting Transsion Holdings discussion Rel-19

[R2-2500803](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500803.zip) Discussion on event-triggered meas report Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

=> Revised in [R2-2501328](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501328.zip)

[R2-2501328](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501328.zip) Discussion on event-triggered meas report Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500804](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500804.zip) Summary of [POST128][108][MOB] RRC running CR (Huawei) Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500805](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500805.zip) Draft running RRC CR for event-triggered meas report Huawei, HiSilicon draftCR Rel-19 38.331 18.4.0 B NR\_Mob\_Ph4-Core

[R2-2500874](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500874.zip) L1 event-triggered measurement reporting for LTM Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2500878](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500878.zip) Event triggered L1 measurement reporting for LTM. Interdigital, Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500955](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500955.zip) L1 measurement event configuration and reporting Panasonic discussion

[R2-2501042](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501042.zip) Discussion on L1 event triggered measurement reporting CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501083](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501083.zip) Further details of event-triggered L1 measurement reporting for LTM Kyocera discussion Rel-19

[R2-2501168](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501168.zip) Remaining Issues of L1 Event Triggered Measurement Report Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501186](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501186.zip) Event triggered LTM report LG Electronics Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501194](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501194.zip) Discussion on issues for supporting L1 event triggered measurement reporting Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

###  8.6.4 Conditional intra-CU LTM

Beam(s) to be used for C-LTM event evaluation, beam selection in RACH-less C-LTM with CG, whether to support RACH-less C-LTM with DG (w/ analysis of additional spec impacts), whether LTM and C-LTM co-exist (w/ analysis of additional spec impacts), early TA MAC CE, UE behaviors to the new timer, C-LTM part of [POST128][107] and [POST128][109], etc.

[R2-2500134](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500134.zip) Further discussion on Conditional LTM MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500137](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500137.zip) Discussion on remaining issues of CLTM LG Electronics Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500168](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500168.zip) Discussion on Conditional intra-CU LTM Baicells discussion

[R2-2500209](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500209.zip) Discussion on conditional LTM OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500223](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500223.zip) Discussion on Conditional Intra-CU LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500251](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500251.zip) Discussion on Conditional Intra CU LTM Lekha Wireless Solutions discussion Rel-19

[R2-2500286](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500286.zip) Conditional LTM Rakuten Mobile, Inc discussion Rel-19

[R2-2500348](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500348.zip) Discussion on conditional LTM vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500424](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500424.zip) Discussion on conditional LTM Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500444](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500444.zip) Discussion on conditional intra-CU LTM ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500461](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500461.zip) Discussion on conditional intra-CU LTM Panasonic discussion Rel-19

[R2-2500477](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500477.zip) Discussion on conditional Intra-CU LTM Fujitsu discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500486](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500486.zip) Conditional intra-CU LTM Qualcomm Incorporated discussion

[R2-2500487](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500487.zip) Further discussion on conditional LTM ETRI discussion Rel-19

[R2-2500566](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500566.zip) Discussion on conditional intra-CU LTM China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500593](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500593.zip) Conditional Intra-CU LTM Apple discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500650](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500650.zip) Discussion on conditional LTM HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500669](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500669.zip) Discussion on DC and remaining FFSs for CLTM Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500673](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500673.zip) Discussion on conditional intra-CU LTM NEC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500761](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500761.zip) Further discussion on supporting conditional LTM Transsion Holdings discussion Rel-19

[R2-2500856](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500856.zip) CLTM Scenarios and remaining points Lenovo discussion NR\_Mob\_Ph4-Core

[R2-2500879](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500879.zip) Conditional LTM. Interdigital, Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2500945](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500945.zip) On conditional LTM Nokia discussion Rel-19 NR\_Mob\_Ph4

[R2-2500965](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500965.zip) Intra-CU conditional LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501001](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501001.zip) Discussion on Conditional Intra-CU LTM KDDI Corporation discussion Rel-19

[R2-2501023](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501023.zip) Discussion on Conditional LTM CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501073](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501073.zip) Initial consideration of coexistence scenarios for C-LTM Kyocera discussion Rel-19

[R2-2501074](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501074.zip) Discussion on TA validity timer for C-LTM Kyocera discussion Rel-19

[R2-2501155](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501155.zip) Discussion on Conditional Intra CU LTM Jio Platforms (JPL) discussion Rel-19

[R2-2501156](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501156.zip) Discussion on Conditional intra-CU LTM ITL discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501169](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501169.zip) Remaining Issues of Conditional Intra-CU LTM Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501195](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501195.zip) Discussion on issues for supporting conditional LTM Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2501198](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501198.zip) Discussion on Conditional intra-CU LTM NTT DOCOMO, INC. discussion Rel-19

[R2-2501233](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501233.zip) Discussion on L1 conditions for conditional LTM Google Korea LLC discussion

## 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: 5 tdocs

### 8.7.1 Organizational

LS, Rapporteur input, workplan, etc.

CR rapporteurs of 38.300, 38.321, 38.323 and 38.331 are requested to provide first drafts of the running CRs for this meeting.

[R2-2500020](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500020.zip) Reply LS on multi-modality awareness (R3-247874; contact: Huawei) RAN3 LS in Rel-19 NR\_XR\_Ph3-Core To:SA2, RAN2 Cc:SA4

[R2-2500021](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500021.zip) Reply LS to SA2 for PDU Set Information Marking Support without QoS parameters (R3-247875; contact: ZTE) RAN3 LS in Rel-19 NR\_XR\_Ph3-Core, XRM\_Ph2 To:SA2 Cc:RAN2

[R2-2500037](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500037.zip) Response LS on gaps/restrictions that are caused by RRM measurements (R4-2420198; contact: Qualcomm) RAN4 LS in Rel-19 NR\_XR\_Ph3-Core To:RAN1 Cc:RAN2

[R2-2500056](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500056.zip) Reply to LS on appropriate range and granularity of bit rate adaptation for XR applications (S4-242182; contact: Qualcomm) SA4 LS in Rel-19 NR\_XR\_Ph3-Core, FS\_5G\_RTP\_Ph2, FS\_XRM\_Ph2 To:RAN2

[R2-2500057](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500057.zip) LS Reply on multi-modality awareness (S4-242223; contact: Huawei) SA4 LS in Rel-19 NR\_XR\_Ph3-Core To:RAN2, RAN3, SA2

[R2-2500060](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500060.zip) LS on multi-modality awareness (SP-241921; contact: CMCC) SA LS in Rel-19 XRM\_Ph2, NR\_XR\_Ph3-Core To:RAN, RAN2, RAN3, SA2 Cc:SA4

[R2-2500090](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500090.zip) Introduction to R19 XR enhancements Qualcomm Incorporated draftCR Rel-19 38.321 18.4.0 NR\_XR\_Ph3-Core

[R2-2500488](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500488.zip) Rapporteur Inputs Nokia, Qualcomm (Rapporteurs) discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500489](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500489.zip) Draft Stage 2 CR for XR Nokia (Rapporteur) draftCR Rel-19 38.300 18.4.0 B NR\_XR\_Ph3-Core

[R2-2500808](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500808.zip) Draft runnnig RRC CR for R19 XR Huawei, HiSilicon draftCR Rel-19 38.331 18.4.0 B NR\_XR\_Ph3-Core

=> Revised in [R2-2501246](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501246.zip)

[R2-2501246](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501246.zip) Draft runnnig RRC CR for R19 XR Huawei, HiSilicon draftCR Rel-19 38.331 18.4.0 B NR\_XR\_Ph3-Core [R2-2500808](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500808.zip)

[R2-2501147](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501147.zip) PDCP running CR for R19 XR LG Electronics Inc. (Rapporteur) draftCR Rel-19 38.323 18.4.0 NR\_XR\_Ph3-Core Withdrawn

[R2-2501197](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501197.zip) PDCP running CR for R19 XR LG Electronics Inc. (Rapporteur) draftCR Rel-19 38.323 18.4.0 NR\_XR\_Ph3-Core

[R2-2501205](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501205.zip) RLC running CR for XR vivo draftCR Rel-19 38.322 18.2.0 B NR\_XR\_Ph3-Core

### 8.7.2 Multi-modality support

**No contributions are expected for this AI for RAN2#129**

### 8.7.3 RRM measurement gaps/restrictions related enhancements

Focus on RAN2 impacts from solutions considered by RAN1/RAN4, discuss the need of semi-static solutions.

[R2-2500091](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500091.zip) Discussion on measurement gap cancelation Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500099](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500099.zip) RRM measurement gaps/restrictions related enhancements Fraunhofer IIS, Fraunhofer HHI discussion Rel-19

[R2-2500182](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500182.zip) Discussion on Enabling TX/RX for XR during RRM Measurements CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500196](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500196.zip) Discussion on Measurement Gap enhancements OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500349](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500349.zip) Discussion on RRM measurement gaps enhancements vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500377](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500377.zip) RAN2 impacts of measurement gap enhancements Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500478](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500478.zip) Discussions on measurement gap related enhancements Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core [R2-2409844](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2409844.zip)

[R2-2500500](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500500.zip) RRC-based semi-static MG skipping solution NEC Corporation discussion NR\_XR\_Ph3-Core

[R2-2500651](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500651.zip) Discussion on RRM Measurement Gaps Enhancements HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500678](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500678.zip) Views on Enhancements Relating to RRM Measurement Gaps Apple discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500715](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500715.zip) Enabling TX/RX for XR during measurement gaps/restrictions Lenovo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500746](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500746.zip) Discussion on enabling TX/RX for XR during RRM measurements Sony discussion Rel-19 NR\_XR\_Ph3

[R2-2500764](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500764.zip) RRM measurement gaps/restrictions related enhancements Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500781](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500781.zip) Measurement gap skipping for XR ZTE Corporation, Sanechips discussion

[R2-2500793](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500793.zip) RRM measurement gap related enhancements for XR InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500806](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500806.zip) Discussion on RRM enhancements for XR Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500824](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500824.zip) Discussion on enhancement for MG skipping LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500839](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500839.zip) Remaining Issues on RRM Measurement Enhancements China Telecom discussion

[R2-2500862](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500862.zip) Discussion on RRM measurement operation for XR enhancements Hanbat National University discussion

[R2-2500924](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500924.zip) RRM Measurement Gap/Restriction Enhancements Ericsson discussion Rel-19

[R2-2501039](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501039.zip) RRC-based MG skipping solution CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501144](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501144.zip) Discussion on RRM measurement gaps/restrictions enhancements for Rel-19 XR Samsung discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501234](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501234.zip) Discussion on XR RRM measurement gaps/restrictions related enhancements III discussion 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 the existing LCP procedure (Bj, PBR etc.), impact on intra-UE prioritization.

[R2-2500092](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500092.zip) Discussion on LCP enhancements Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500145](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500145.zip) Discussion on LCP enhancements of XR traffic Xiaomi Communications discussion

[R2-2500183](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500183.zip) Consideration on LCP Enhancement CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500197](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500197.zip) Discussion on LCP enhancements for XR OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500281](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500281.zip) Discussion on the adjustment of Bj/PBR for delay-aware LCP TCL discussion

[R2-2500350](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500350.zip) Remaining issues on LCP enhancements for XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500378](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500378.zip) Issues on Additional LCH Priority and Prioritization Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500479](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500479.zip) Discussions on enhancements for LCH priority-adjusted data Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500511](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500511.zip) Considerations on LCP enhancements NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500541](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500541.zip) Discussion on LCP enhancements for XR DENSO CORPORATION discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500652](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500652.zip) Discussion on LCP enhancements HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500679](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500679.zip) Views on Delay-based Logical Channel Priority Adjustment Apple, Lenovo discussion Rel-19 NR\_XR\_Ph3-Core Withdraw3n

[R2-2500721](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500721.zip) Further details on Enhanced Logical channel prioritization for XR Lenovo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500765](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500765.zip) LCP Enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500782](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500782.zip) LCP enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2500792](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500792.zip) LCP enhancement for XR InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500840](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500840.zip) Remaining Issues on LCP Enhancements China Telecom discussion

[R2-2500853](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500853.zip) Discussion on additional priority based LCP enhancements in XR Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500912](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500912.zip) Outstanding issues on LCP enhancements for Rel-19 XR Samsung R&D Institute UK discussion

[R2-2500983](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500983.zip) LCP enhancements Ericsson discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501007](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501007.zip) Discussion on enhanced LCP for XR ITRI discussion NR\_XR\_Ph3-Core

[R2-2501014](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501014.zip) Consideration on LCP enhancement for XR CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501242](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501242.zip) Discussion on LCP enhancement for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501267](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501267.zip) Views on Delay-based Logical Channel Priority Adjustment Apple, Lenovo, Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501283](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501283.zip) Discussion on remaining issues related to LCP enhancements Rakuten Mobile, Inc discussion

#### 8.7.4.2 DSR enhancements

Including aspects such as MAC CE design, interworking with legacy DSR etc.

[R2-2500093](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500093.zip) Discussion on DSR enhancements Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500146](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500146.zip) Discussion on DSR enhancements of XR traffic Xiaomi Communications discussion

[R2-2500184](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500184.zip) Consideration on DSR Enhancement CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500198](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500198.zip) Discussion on DSR enhancements for XR OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500293](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500293.zip) Discussion on Delay status report CANON Research Centre France discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500351](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500351.zip) Remaining issues on DSR enhancements for XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500379](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500379.zip) Issues on New DSR MAC CE Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500480](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500480.zip) Discussions on DSR enhancements Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500512](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500512.zip) Considerations on DSR enhancements NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500543](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500543.zip) Discussion on DSR enhancements for XR DENSO CORPORATION discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500628](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500628.zip) Enhanced delay status reporting for XR Lenovo discussion Rel-19

[R2-2500653](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500653.zip) Discussion on DSR enhcancements HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500680](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500680.zip) Views on DSR Enhancements Apple discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500718](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500718.zip) DSR enhancements for UL scheduling InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500766](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500766.zip) DSR Enhancements for XR Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500783](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500783.zip) DSR enhancements for XR ZTE Corporation, Sanechips discussion

[R2-2500844](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500844.zip) Leftover Issues for DSR Enhancements China Telecom discussion

[R2-2500854](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500854.zip) Discussion on DSR enhancements in XR Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500982](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500982.zip) DSR enhancements Ericsson discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501015](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501015.zip) Consideration on DSR enhancement for XR CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501136](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501136.zip) DSR enhancements for UL scheduling ETRI discussion

[R2-2501139](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501139.zip) Remaining issues of data reporting for enhanced DSR Xiaomi Communications, Apple discussion

[R2-2501143](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501143.zip) DSR enhancements for Rel-19 XR Samsung discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501153](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501153.zip) MAC CE for DSR enhancement and interworking with legacy DSR TCL discussion Rel-19

[R2-2501235](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501235.zip) Discussion on XR DSR enhancements III discussion NR\_XR\_Ph3-Core

[R2-2501243](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501243.zip) Discussion on DSR enhancement for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501282](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501282.zip) Further discussion on Rel-19 DSR enhancements Rakuten Mobile, Inc discussion Rel-19

[R2-2501311](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501311.zip) Discussion on DSR Enhancements for XR Meta discussion

### 8.7.5 RLC enhancements

Including aspects such as:

* how to avoid unnecessary retransmissions, e.g. details of the combined approach
* how to ensure timely RLC retransmissions for XR, e.g. details of the solution covering both autonomous retransmission and polling enhancements

[R2-2500094](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500094.zip) Discussion on RLC enhancements Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500185](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500185.zip) Consideration on XR-specific RLC Enhancement CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500195](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500195.zip) Discussion on RLC re-transmission related enhancements OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500292](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500292.zip) Discussion on RLC AM Enhancements CANON Research Centre France discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500352](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500352.zip) Discussion on RLC enhancement for XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500380](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500380.zip) Discussion on RLC Enhancements Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500401](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500401.zip) RLC AM retransmission enhancements Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500481](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500481.zip) Discussions on RLC enhancements Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500490](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500490.zip) RLC enhancements Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500538](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500538.zip) Further details of RLC enhancements for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500544](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500544.zip) Discussion on RLC enhancements DENSO CORPORATION discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500629](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500629.zip) AM RLC enhancement Lenovo discussion Rel-19

[R2-2500654](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500654.zip) Discussion on RLC enhancements HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500681](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500681.zip) Views on Fast RLC Retransmissions Apple discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500684](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500684.zip) RLC AM enhancement NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500698](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500698.zip) RLC Enhancements for XR Samsung discussion Rel-19

[R2-2500719](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500719.zip) Discussion on RLC enhancements InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500747](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500747.zip) RLC AM enhancements for timely retransmissions Sony discussion Rel-19 NR\_XR\_Ph3

[R2-2500784](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500784.zip) RLC enhancements ZTE Corporation, Sanechips discussion

[R2-2500846](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500846.zip) Leftover Issues for RLC AM Enhancements China Telecom discussion

[R2-2500925](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500925.zip) Even More Discussions on RLC AM Enhancements Ericsson discussion Rel-19

[R2-2501038](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501038.zip) Discussion on the RLC AM enhancements for XR CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501060](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501060.zip) Discussion on RLC AM enhancements Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501154](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501154.zip) Leftover issues for RLC AM enhancement TCL discussion Rel-19

[R2-2501229](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501229.zip) Discussion on RLC retransmission for XR Quectel discussion

[R2-2501251](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501251.zip) Combined approach to avoid unnecessary RLC retransmissions Futurewei discussion Rel-19 NR\_XR\_Ph3-Core

### 8.7.6 XR rate control

Including details of per QoS flow indication, bit rate values indication enhancements (considering the reply from SA4), indication/assistance from UE/CN to gNB, whether to support rate query MAC CE etc.

[R2-2500095](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500095.zip) Discussion on XR rate control Qualcomm Incorporated discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500186](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500186.zip) Discussion on XR Rate Control CATT discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500353](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500353.zip) Discussion on XR rate control vivo discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500381](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500381.zip) Discussion on XR Rate Control Sharp discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500402](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500402.zip) XR rate control Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500482](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500482.zip) Discussions on XR rate control Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500514](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500514.zip) Uplink rate control for XR NEC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500539](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500539.zip) Rate control signaling for XR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500655](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500655.zip) Discussion on XR rate control HONOR discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500682](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500682.zip) Views on XR Rate Control Apple discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500720](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500720.zip) Discussion on UL congestion signaling InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500736](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500736.zip) Discussion on XR rate control OPPO discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500748](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500748.zip) Recommended bit rate based XR rate control Sony discussion Rel-19 NR\_XR\_Ph3

[R2-2500785](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500785.zip) XR Rate control ZTE Corporation, Sanechips discussion

[R2-2500794](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500794.zip) XR Rate Control Lenovo discussion NR\_XR\_Ph3-Core

[R2-2500807](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500807.zip) Discussion on XR rate control Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2500926](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500926.zip) Even More on XR Rate Control Ericsson discussion Rel-19

[R2-2501016](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501016.zip) Consideration on XR rate control CMCC discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501063](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501063.zip) Further Discussion on Rate Control for XR China Telecom discussion

[R2-2501141](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501141.zip) Discussion on UL rate control for Rel-19 XR Samsung discussion Rel-19 NR\_XR\_Ph3-Core

[R2-2501202](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501202.zip) XR rate control Nokia, Nokia Shanghai Bell discussion NR\_XR\_Ph3-Core

[R2-2501312](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501312.zip) Discussion on RAN Awareness and UL Rate Control for XR Meta 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.

[R2-2500045](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500045.zip) Reply LS on requirements for ETWS primary notification (S1-244857; contact: Novamint) SA1 LS in Rel-19 NR\_NTN\_Ph3-Core To:RAN2

[R2-2500067](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500067.zip) Reply LS on Supporting MBS broadcast service for NR NTN (S2-2501329; contact: Xiaomi) SA2 LS in Rel-19 NR\_NTN\_Ph3-Core, TEI19 To:RAN3, RAN2, CT4

[R2-2500529](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500529.zip) Introduction of LTE TN to NR NTN IDLE mode mobility CATT CR Rel-19 36.331 18.4.0 5065 2 B LTE\_TN\_NR\_NTN\_mob-Core [R2-2410968](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410968.zip) Late

[R2-2500584](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500584.zip) Discussion on simultaneous GNSS and NTN operations Apple discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500703](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500703.zip) Discussion on simultaneous operation between GNSS and NR NTN Huawei, HiSilicon, Turkcell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500705](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500705.zip) Introduction of LTE TN to NR NTN Mobility UE Capability vivo CR Rel-19 36.306 18.4.0 1900 1 B LTE\_TN\_NR\_NTN\_mob-Core [R2-2409536](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2409536.zip)

[R2-2501284](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501284.zip) Introduction of stage 2 for LTE TN to NR NTN idle mode mobility Samsung CR Rel-19 36.300 18.4.0 1412 2 B LTE\_TN\_NR\_NTN\_mob [R2-2410969](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410969.zip)

[R2-2501304](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501304.zip) Running RRC CR for NR NTN phase 3 Ericsson draftCR Rel-19 38.331 18.4.0 B NR\_NTN\_Ph3-Core

[R2-2501321](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501321.zip) Introduction of NTN Ph3 enhancements THALES (Rapporteur) draftCR Rel-19 38.300 18.4.0 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).

[R2-2500100](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500100.zip) Discussion on DL coverage enhancement Xiaomi discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500148](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500148.zip) Discussion on downlink coverage enhancement LG Electronics Inc. discussion Rel-19

[R2-2500219](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500219.zip) Discussion on Downlink Coverage Enhancement Samsung discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500459](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500459.zip) Discussion on DL coverage enhancement for NTN OPPO discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500483](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500483.zip) Discussions on downlink coverage enhancement Fujitsu discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500524](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500524.zip) Further discussion on downlink coverage enhancements CATT discussion

[R2-2500532](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500532.zip) Default extended SSB periodicity Qualcomm Incorporated discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500575](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500575.zip) Further discussion of NR NTN coverage enhancement China Telecom discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500582](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500582.zip) DL coverage enhancement in NTN Apple discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500615](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500615.zip) Cell barring and reselection for NTN DL-CE Lenovo discussion Rel-19

[R2-2500656](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500656.zip) Discussion on downlink coverage enhancement HONOR discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500685](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500685.zip) Downlink coverage enhancement NEC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500689](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500689.zip) Discussion on DL coverage enhancements Huawei, HiSilicon, Turkcell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500727](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500727.zip) Discussion on NTN downlink coverage enhancement Nokia discussion NR\_NTN\_Ph3-Core [R2-2410213](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410213.zip)

[R2-2500749](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500749.zip) SMTC impacts due to NTN downlink coverage enhancements Sony discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501010](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501010.zip) Discussion on SMTC for NTN DL coverage enhancements ITRI discussion NR\_NTN\_Ph3-Core

[R2-2501037](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501037.zip) Analysis on DL coverage enhancements due to extended SIB periodicity CMCC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501160](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501160.zip) "Discussion on Downlink Coverage Enhancements" CSCN discussion Rel-19

[R2-2501179](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501179.zip) Downlink coverage enhancement for non-terrestrial networks InterDigital Communications discussion Rel-19

[R2-2501182](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501182.zip) Discussion on Downlink Coverage Enhancements Sharp discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501280](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501280.zip) Discussion on NR NTN Downlink Coverage Enhancements Rakuten Mobile, Inc discussion

[R2-2501290](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501290.zip) Downlink coverage enhancement SMTC impacts Sequans Communications discussion Rel-19 NR\_NTN\_Ph3-Core [R2-2410804](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410804.zip)

[R2-2501291](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501291.zip) Downlink coverage enhancement access control Sequans Communications discussion Rel-19 NR\_NTN\_Ph3-Core [R2-2410806](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410806.zip)

[R2-2501318](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501318.zip) DL coverage enhancements Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.3 Uplink Capacity/Throughput Enhancement

Contributions can be submitted on the possible RAN2 aspects of the agreements reached in RAN1.

[R2-2500665](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500665.zip) UL Capacity enhancement for NRNTN NEC Corporation discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500690](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500690.zip) Discussion on Uplink Capacity Enhancements Huawei, HiSilicon, Turkcell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500770](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500770.zip) Consideration on DL CE and UL capacity enhancement ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501032](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501032.zip) Discussion on uplink capacity/throughput enhancement for NR NTN CMCC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501281](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501281.zip) RAN2 related proposals for Uplink Capacity & Throughput Enhancements Rakuten Mobile, Inc discussion

### 8.8.4 Support of Broadcast service

Contributions should address the signaling of the intended service area of a broadcast service.

[R2-2500079](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500079.zip) Further Discussion on MBS Broadcast Service Area Provision in NTN vivo discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500080](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500080.zip) Discussion on MBS Broadcast Service Continuity in NTN vivo discussion Rel-19 NR\_NTN\_Ph3-Core [R2-2409538](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2409538.zip)

[R2-2500220](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500220.zip) Discussion on Broadcast Service Area Samsung discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500252](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500252.zip) Discussion on Support of MBS Broadcast Service TCL discussion Rel-19

[R2-2500331](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500331.zip) Further Details on MBS in Rel-19 NR NTN Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500453](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500453.zip) Discussion on providing MBS service area in NTN network OPPO discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500465](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500465.zip) Discussion on the support of broadcast service Xiaomi discussion

[R2-2500484](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500484.zip) Discussions on supporting broadcast service Fujitsu discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500523](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500523.zip) Further discussion on support of broadcast service in NR NTN CATT discussion

[R2-2500530](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500530.zip) Signaling of MBS broadcast service area information Qualcomm Incorporated discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500576](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500576.zip) The mapping between service area information and MBS session China Telecom discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500583](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500583.zip) Discussion on broadcast serivce over NTN Apple discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500616](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500616.zip) Further considerations on broadcast service area information in NTN Lenovo discussion Rel-19

[R2-2500657](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500657.zip) Discussion on the support of broadcast service HONOR discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500675](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500675.zip) Remaining issues on the support of broadcast service in NTN ETRI discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500771](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500771.zip) Consideration on broadcast service support ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500966](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500966.zip) Discussion on MBS broadcast over NTN Huawei, HiSilicon, Turkcell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501005](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501005.zip) Discussion on MII procedure in NTN LG Electronics France discussion Rel-19 38.331

[R2-2501033](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501033.zip) Considerations on broadcast service for NR NTN CMCC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501180](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501180.zip) Support for broadcast service in non-terrestrial networks InterDigital Communications discussion Rel-19

[R2-2501181](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501181.zip) Remaining issues on intended service area Sharp discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501306](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501306.zip) Support for broadcast services in NR NTN Ericsson 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.

[R2-2500617](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500617.zip) UE location verification in NTN regenerative architecture Lenovo discussion Rel-19

[R2-2500750](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500750.zip) Satellite switch with re-sync in regenerative payload Sony discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500904](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500904.zip) Regenerative payload for NTN for NR Ph3 TOYOTA Info Technology Center discussion Rel-19

[R2-2501066](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501066.zip) Discussion on regenerative payload Fujitsu Limited discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501097](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501097.zip) Discussion on the impact of regenerative payload ETRI 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.

[R2-2500081](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500081.zip) Discussion on Redirection from E-UTRA TN to NR-NTN vivo discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500330](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500330.zip) On E-UTRAN TN to NR NTN enhancements Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500460](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500460.zip) Discussion on dedicated priority and redirection via RRCConnectionRelease OPPO discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500466](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500466.zip) Discussion on the redirection from LTE to NR NTN Xiaomi discussion

[R2-2500526](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500526.zip) Discussion on redirection from LTE TN to NR NTN CATT discussion

[R2-2500531](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500531.zip) Frequency priorities and redirection from LTE to NR NTN Qualcomm Incorporated discussion Rel-19 LTE\_TN\_NR\_NTN\_mob

[R2-2500577](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500577.zip) Signalling design for NTN mobility redirection China Telecom discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500687](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500687.zip) Redirection from E-UTRN TN to NR NTN NEC discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2500772](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500772.zip) Consideration on LTE TN to NR NTN mobility ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501272](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501272.zip) Re-direction from E-UTRAN TN to NR NTN Samsung discussion Rel-19 NR\_NTN\_Ph3-Core

[R2-2501305](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501305.zip) E-UTRAN TN to NR-NTN mobility Ericsson discussion Rel-19 LTE\_TN\_NR\_NTN\_mob

## 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.

[R2-2500010](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500010.zip) Reply LS on OCC for CB-msg3 NPUSCH (R1-2410895; contact: Sony) RAN1 LS in Rel-19 IoT\_NTN\_Ph3-Core To:RAN2

[R2-2500044](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500044.zip) Reply LS on PWS support for NB-IoT NTN (S1-244757; contact: Novamint) SA1 LS in Rel-19 IoT\_NTN\_Ph3-Core To:RAN2 Cc:RAN3, CT1, SA2

[R2-2500061](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500061.zip) Reply to Reply LS on FS\_5GSAT\_Ph3\_ARCH conclusions (S2-2501085; contact: China Telecom) SA2 LS in Rel-19 5GSAT\_Ph3-ARC To:SA3-LI Cc:SA3, RAN2

[R2-2500204](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500204.zip) RRC Running CR for IoT NTN Huawei, HiSilicon draftCR Rel-19 36.331 18.4.0 B IoT\_NTN\_Ph3-Core

[R2-2501158](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501158.zip) MAC Running CR for Rel-19 IoT NTN MediaTek Inc. draftCR Rel-18 36.321 18.3.0 B IoT\_NTN\_Ph3-Core

[R2-2501320](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501320.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.

[R2-2500071](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500071.zip) Discussion on Store and Forward operation Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500082](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500082.zip) Further Discussion on S&F Operation vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500106](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500106.zip) S&F enhancements PANASONIC discussion

[R2-2500309](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500309.zip) Discussion on Store & Forward satellite operation OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500366](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500366.zip) Further consideration on S&F operation in IoT NTN ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500418](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500418.zip) Discussion on time information for S&F ASUSTeK discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500467](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500467.zip) Open issues on the S&F operation Google discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500525](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500525.zip) Discussion on RAN2 impacts for the support of S&F operation CATT discussion

[R2-2500533](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500533.zip) Switching of S&F mode Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500578](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500578.zip) Time information of IoT NTN Store & Forward China Telecom discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500586](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500586.zip) Support of S&F operation in IoT NTN Apple discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500618](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500618.zip) Enhancements to support S&F operation Lenovo discussion Rel-19

[R2-2500658](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500658.zip) Discussion on the Store and Forward satellite operation HONOR discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500686](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500686.zip) Radio Interface Aspect of S&F NEC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500704](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500704.zip) Further consideration on Store and Forward Huawei, HiSilicon discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500762](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500762.zip) Discussion on support of Store&Forward Transsion Holdings discussion Rel-19

[R2-2500796](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500796.zip) RAN2 impacts for SF Operation Nokia , Nokia Shanghai Bells discussion

[R2-2500876](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500876.zip) Support of Store and Forward. Interdigital, Inc. discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500922](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500922.zip) Discussion on Paging and Mode Switching TOYOTA Info Technology Center discussion Rel-19 NR\_NTN\_Ph3

[R2-2500929](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500929.zip) Support of Store & Forward for IoT NTN TURKCELL discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500980](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500980.zip) Further considerations on S&F operations Continental Automotive discussion Rel-19

[R2-2501004](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501004.zip) Discussion on Store & Forward operation DENSO CORPORATION discussion IoT\_NTN\_Ph3-Core

[R2-2501012](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501012.zip) Discussion on IoT NTN Store and Forward CMCC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501159](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501159.zip) RAN2 impact on S&F mode MediaTek Inc. discussion IoT\_NTN\_Ph3-Core [R2-2410636](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410636.zip)

[R2-2501273](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501273.zip) Discussion on Store and Forward operation Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501307](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501307.zip) Support for store and forward in IoT NTN Ericsson discussion Rel-19 IoT\_NTN\_Ph3-Core

### 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).

[R2-2500072](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500072.zip) Discussion on uplink capacity enhancements for IoT NTN Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500083](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500083.zip) Discussion on CB-Msg3 Mechanism vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500096](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500096.zip) Further discussion on CB-Msg3 Mechanism NTU discussion Rel-19

[R2-2500138](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500138.zip) Further considerations on Locating of Replicas for DSA NTPU discussion

[R2-2500162](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500162.zip) Remaining issues on CB-Msg3 transmission Spreadtrum, UNISOC discussion Rel-19

[R2-2500200](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500200.zip) Further consideration on UL capacity enhancement Huawei, HiSilicon, Turkcell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500310](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500310.zip) Discussion on CB-msg3 EDT and msg4 enhancement OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500367](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500367.zip) Further consideration on UL capacity enhancements in IoT NTN ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500528](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500528.zip) Further consideration on UL capacity enhancements CATT discussion

[R2-2500534](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500534.zip) CB-Msg3 and Msg4 enhancements Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500548](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500548.zip) Further discussion on UL capacity enhancement for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500579](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500579.zip) Consideration of CB Msg3-EDT in IoT NTN China Telecom discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500585](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500585.zip) Uplink capacity enhancement in IoT NTN Apple discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500619](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500619.zip) EDT for uplink capacity enhancement in NTN Lenovo discussion Rel-19

[R2-2500659](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500659.zip) Discussion on UL capacity enhancement HONOR discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500664](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500664.zip) Discussion on UL Capacity Enhancement for IoT-NTN NEC Corporation discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500763](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500763.zip) Discussion on uplink capacity enhancement Transsion Holdings discussion Rel-19

[R2-2500848](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500848.zip) IoT-NTN uplink capacity enhancement Nordic Semiconductor ASA discussion

[R2-2500877](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500877.zip) EDT/PUR enhancements. Interdigital, Inc. discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500981](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500981.zip) Discussion on EDT Enhancements for IOT NTN Skylo Technologies discussion Rel-19

[R2-2501034](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501034.zip) Considerations on uplink capacity enhancement for IoT-NTN CMCC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501164](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501164.zip) Discussion on CB-Msg3 procedure MediaTek Inc. discussion IoT\_NTN\_Ph3-Core [R2-2410641](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410641.zip)

[R2-2501265](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501265.zip) Implicit pointer for locating CB-Msg3 DSA replicas DLR, ESA, Toyota ITC, Inmarsat, Viasat, Thales, Aalyria Technologies, Echostar, Eutelsat Group Sateliot, Novamint discussion

[R2-2501274](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501274.zip) Further issues on contention-based Msg3 Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501319](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501319.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.

[R2-2500073](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500073.zip) PWS support for NB-IoT over NTN Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500084](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500084.zip) Further Discussion on PWS Support for NB-IoT vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500311](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500311.zip) Discussion on PWS for NB-IoT OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500342](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500342.zip) Remaining issues on PWS support for NB-IoT Huawei, HiSilicon, Turkcell discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500368](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500368.zip) Further consideration on PWS support in IoT NTN ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500464](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500464.zip) Discussion on the support for PWS in NB-IoT Google discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500522](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500522.zip) Remaining issues on support of PWS for NB-IoT NTN UE CATT discussion

[R2-2500535](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500535.zip) Discussion on PWS in NB-IoT NTN Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500580](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500580.zip) Remaining issues for PWS in IoT NTN China Telecom discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500620](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500620.zip) PWS broadcast support for NB-IoT in NTN Lenovo discussion Rel-19

[R2-2500641](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500641.zip) Considering on PWS Support in NB-IoT NEC Corporation discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2500797](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500797.zip) On PWS support for NB-IoT NTN Nokia , Nokia Shanghai Bells discussion

=> Revised in [R2-2501322](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501322.zip)

[R2-2501322](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501322.zip) On PWS support for NB-IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_Ph3-Core [R2-2500797](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500797.zip)

[R2-2500952](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500952.zip) Discussion on remaining issues for support of PWS message KT Corp. discussion

[R2-2501035](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501035.zip) Support of PWS messages for NB-IoT CMCC discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501161](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501161.zip) Discussion on supporting PWS for NB-IoT MediaTek Inc. discussion IoT\_NTN\_Ph3-Core [R2-2410643](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410643.zip)

[R2-2501275](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501275.zip) Impact of introducing PWS broadcasting for NB-IoT Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

[R2-2501308](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501308.zip) Enhancements to support PWS in NB-IoT NTN Ericsson discussion Rel-19 IoT\_NTN\_Ph3-Core

## 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.

[R2-2500025](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500025.zip) Reply LS on MHI enhancement solution for SCG deactivation/activation (R3-247906; contact: Huawei) RAN3 LS in Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN2

[R2-2500026](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500026.zip) LS on RAN3 agreements with impact on UE related to the Rel-19 SON/MDT (R3-247908; contact: Samsung) RAN3 LS in Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN2

[R2-2500918](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500918.zip) Running CR for SONMDT features Ericsson draftCR Rel-19 38.331 18.4.0 B 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

#### 8.10.2.1 LTM

[R2-2500234](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500234.zip) MRO Enhancements for LTM CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500363](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500363.zip) MRO for LTM Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500419](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500419.zip) Discussion on random access report for LTM ASUSTeK discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500558](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500558.zip) Outstanding issues of MRO Apple discussion

[R2-2500622](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500622.zip) Discussion on MRO enhancements for LTM Lenovo discussion Rel-19

[R2-2500706](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500706.zip) Discussion on MRO enhancement for LTM China Unicom discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500831](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500831.zip) MRO for LTM ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500859](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500859.zip) MRO enhancements for LTM Samsung discussion

[R2-2500916](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500916.zip) Further considerations on MRO for LTM Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501044](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501044.zip) MRO enhancements for LTM CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501104](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501104.zip) Discussion on MRO for LTM Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501212](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501212.zip) MRO for LTM LG Electronics Inc. discussion Rel-19

[R2-2501255](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501255.zip) SON and MDT for LTM Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.2.2 CHO with candidate SCGs

[R2-2500235](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500235.zip) MRO Enhancements for CHO with Candidate SCGs CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500364](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500364.zip) MRO for CHO with candidate SCG Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500623](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500623.zip) Discussion on MRO enhancements for CHO with candidate SCGs Lenovo discussion Rel-19

[R2-2500674](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500674.zip) MRO for CHO with candidate SCG(s) NEC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500707](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500707.zip) Discussion on MRO enhancement for CHO with candidate SCGs China Unicom discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500832](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500832.zip) MRO for CHO with candidate SCGs ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500855](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500855.zip) MRO enhancements for CHO with Candidate SCG(s) Samsung discussion

[R2-2501084](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501084.zip) Discussion on new triggering condition of SHR for CHO with candidate SCGs vivo discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501105](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501105.zip) Discussion on MRO for CHO with candidate SCGs Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501200](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501200.zip) SON enhancement for CHO with candidate SCG SHARP Corporation discussion

[R2-2501213](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501213.zip) MRO for CHO and Associated CPAC LG Electronics Inc. discussion Rel-19

[R2-2501256](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501256.zip) SON and MDT for CHO with candidate SCGs Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501285](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501285.zip) SON support for CHO with Candidate SCG Ericsson discussion

### 8.10.2.3 Other

### 8.10.3 SON/MDT for Slicing

No contributions are expected and this AI will not be treated unless we get an LS from RAN3 on the subject

### 8.10.4 SON/MDT for NTN

[R2-2500236](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500236.zip) Consideration on SONMDT enhancements for intra-NTN mobility CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500571](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500571.zip) Discussion on SON of intra-NTN mobility China Telecom discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500624](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500624.zip) Discussion on MRO for intra-NTN mobility Lenovo discussion Rel-19

[R2-2500708](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500708.zip) Discussion on SONMDT for NTN mobility China Unicom discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500833](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500833.zip) MRO and MDT for NTN ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500861](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500861.zip) SON/MDT for NTN Samsung discussion

[R2-2500917](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500917.zip) Discussion on the reply LS to RAN3 on SON-MDT enhancements for NTN Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500978](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500978.zip) Area Scope for the logged MDT for NTN Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501046](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501046.zip) SON/MDT enhancements for NTN CMCC discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501106](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501106.zip) Discussion on SONMDT for NTN Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501214](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501214.zip) NTN Logging for Unchanged PCI Mobility LG Electronics Inc. discussion Rel-19

[R2-2501257](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501257.zip) SON and MDT for NTN Qualcomm Incorporated discussion 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.

[R2-2500365](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500365.zip) MHI/UHI Enhancement for SCG Deactivation/Activation Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500834](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500834.zip) Rel-18 leftovers and LS from RAN3 ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501199](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501199.zip) RA report optimization for SDT SHARP Corporation discussion

[R2-2501289](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501289.zip) On Rel.18 leftovers Ericsson discussion

#### 8.10.5.1 SDT

[R2-2500625](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500625.zip) Discussion on RACH optimization for SDT Lenovo discussion Rel-19

[R2-2501085](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501085.zip) RA report optimization for SDT vivo discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501107](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501107.zip) Discussion on leftovers from Rel-18 Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501258](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501258.zip) SON and MDT for SDT Qualcomm Incorporated discussion NR\_ENDC\_SON\_MDT\_Ph4-Core

#### 8.10.5.3 Other

[R2-2500237](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500237.zip) MHI Enhancement for SCG Activation and Deactivation CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2500867](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500867.zip) MHI Enhancement for SCG Deactivation/Activation Samsung discussion

[R2-2501045](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501045.zip) MHI and UHI Enhancement for SCG Deactivation Activation CMCC, CATT, Ericsson, Huawei, Lenovo, ZTE discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

[R2-2501047](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501047.zip) [Draft] Reply LS on MHI enhancement solution for SCG deactivation/activation CMCC LS out Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN3

[R2-2501108](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501108.zip) Draft Reply LS on MHI enhancement solution for SCG deactivation/activation Huawei, HiSilicon LS out Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN3

## 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, etc..

[R2-2500036](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500036.zip) LS on CSI-RS measurement with SBFD operation (R4-2420165; contact: MediaTek) RAN4 LS in Rel-19 NR\_duplex\_evo-Core To:RAN1 Cc:RAN2

[R2-2500273](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500273.zip) 38300 Running CR for SBFD CATT draftCR Rel-19 38.300 18.4.0 NR\_duplex\_evo-Core

[R2-2500886](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500886.zip) SBFD UE capabilities running CR Ericsson discussion Rel-19 NR\_duplex\_evo-Core Late

### 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.

[R2-2500098](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500098.zip) Impacts on the random access by the evolution of duplex operation Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500105](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500105.zip) Random Access Operation of SBFD Nokia Corporation discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500109](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500109.zip) SBFD Configuration for initial random access and operations Charter Communications, Inc discussion

[R2-2500191](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500191.zip) Discussion on RACH in SBFD Xiaomi discussion Rel-19

[R2-2500274](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500274.zip) Discussion on Random Access in SBFD symbols CATT discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500298](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500298.zip) Random Access for SBFD Operation NEC discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500337](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500337.zip) Discussion on random access procedure in SBFD vivo discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500339](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500339.zip) Discussion on Random Access operation in SBFD InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500376](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500376.zip) Random Access Issues for SBFD Sharp discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500588](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500588.zip) Remaining issues for RACH in SBFD Apple discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500606](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500606.zip) Discussion on random access procedure in SBFD ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500751](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500751.zip) Random access for SBFD Operation Sony discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500884](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500884.zip) SBFD RA aspects Ericsson discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501029](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501029.zip) Discussion on random access in SBFD CMCC discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501129](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501129.zip) Views on random access for SBFD Qualcomm Incorporated discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501135](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501135.zip) Random access in SBFD Samsung discussion Rel-19

[R2-2501244](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501244.zip) Discussion on Random Access in SBFD LG Electronics Inc. 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.

[R2-2500110](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500110.zip) Cross link interference handling in SBFD networks Charter Communications, Inc discussion

[R2-2500275](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500275.zip) Discussion on other aspects of SBFD CATT discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500338](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500338.zip) SBFD other aspects vivo discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500340](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500340.zip) Discussion on resource configuration in SBFD InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500403](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500403.zip) Other aspects of SBFD Xiaomi discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500554](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500554.zip) Other aspects of SBFD Nokia discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500607](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500607.zip) Discussion on L3 and L1 measurement in SBFD ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500637](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500637.zip) Other impacts by the evolution of duplex operation Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

[R2-2500885](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500885.zip) CSI-RS measurements for RLM/BFD/CBD in SBFD Ericsson discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501130](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501130.zip) Other aspects of SBFD Qualcomm Incorporated discussion Rel-19 NR\_duplex\_evo-Core

[R2-2501170](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501170.zip) Other Aspects of SBFD Samsung 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, etc.

[R2-2500008](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500008.zip) LS to RAN2 on RRC and MAC impacts for Rel-19 NR MIMO Ph5 (R1-2410758; contact: Samsung) RAN1 LS in Rel-19 NR\_MIMO\_Ph5 To:RAN2

[R2-2501026](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501026.zip) Work Plan for Rel-19 on NR MIMO Phase 5 CMCC,Samsung,MediaTek Work Plan Rel-19 NR\_MIMO\_Ph5-Core

### 8.12.2 Asymmetric DL sTRP/UL mTRP

To identify RRC/MAC aspects that need to be discussed for asymmetric DL sTRP/UL mTRP

[R2-2500104](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500104.zip) RAN2 Aspects of Asymmetric DL sTRP/UL mTRP Nokia Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500179](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500179.zip) Discussion on asymmetric DL sTRP/UL mTRP China Telecom discussion

[R2-2500217](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500217.zip) Discussion on Asymmetric DL sTRP/UL mTRP Samsung discussion Rel-19 NR\_MIMO\_Ph5

[R2-2500249](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500249.zip) Discussion on Asymmetric DL sTRP UL mTRP CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500268](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500268.zip) Discussion on asymmetric DL sTRP and UL mTRP Xiaomi discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500354](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500354.zip) Discussion on MAC CE impact for asymmetric DL sTRP/UL mTRP scenarios vivo discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500450](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500450.zip) Discussion on asymmetric DL sTRP and UL mTRP SHARP Corporation discussion NR\_MIMO\_Ph5-Core

[R2-2500635](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500635.zip) Discussion on PL offset Lenovo discussion Rel-19

[R2-2500752](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500752.zip) Enhancement for Asymmetric DL sTRP/UL mTRP Sony discussion Rel-19 NR\_MIMO\_Ph5

[R2-2500825](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500825.zip) Consideration on Asymmetric DL sTRP/UL mTRP LG Electronics Inc. discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500975](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500975.zip) Asymmetric DL/UL mTRP user plane impact from MIMO ph. 5 Ericsson discussion Rel-19 38.321 NR\_MIMO\_Ph5-Core

[R2-2501024](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501024.zip) Discussion on Asymmetric DL sTRP/UL mTRP CMCC discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2501166](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501166.zip) Discussion on UL only mTRP Qualcomm Incorporated discussion

[R2-2501177](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501177.zip) Discussion on Asymmetric DL sTRP/UL mTRP Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2501222](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501222.zip) Consideration on the Asymmetric DL sTRP/UL mTRP ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

### 8.12.3Others

To identify R2 impact on other objectives

[R2-2500103](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500103.zip) RAN2 Aspects of the NR MIMO Nokia Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500180](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500180.zip) Discussion on UE initiated beam reporting China Telecom discussion

[R2-2500210](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500210.zip) Discussion on UEI beam reporting OPPO discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500218](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500218.zip) Discussion on UE-initiated Beam Reporting and CSI enhancement Samsung discussion Rel-19 NR\_MIMO\_Ph5

[R2-2500250](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500250.zip) Discussion on UE-initiated Beam Reporting and CSI Enhancement CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500269](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500269.zip) Discussion on modelling of UE-initiated beam report Xiaomi discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500355](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500355.zip) Discussion on UE-initiated/event-driven beam management vivo discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500451](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500451.zip) Discussion on UE-initiated/event-driven beam management SHARP Corporation discussion NR\_MIMO\_Ph5-Core

[R2-2500636](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500636.zip) Discussion on UEIBR Lenovo discussion Rel-19

[R2-2500826](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500826.zip) Discussion on UEI beam reporting impact LG Electronics Inc. discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2500930](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500930.zip) Impacts from other NR MIMO Phase 5 objectives Ericsson discussion

[R2-2501025](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501025.zip) Discussion on UE-initiated/event-driven beam management CMCC discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2501167](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501167.zip) Discussion on UE Initiated Beam Report Qualcomm Incorporated discussion

[R2-2501176](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501176.zip) Enhancements for UE-initiated/event-driven beam management Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core

[R2-2501223](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501223.zip) Consideration on the UEIBM 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))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.13.1 Organizational

LSs and rapporteur input, including workplan, etc.

[R2-2500064](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500064.zip) LS on Authorization information for Layer-2 multi-hop U2N relaying to NG-RAN (S2-2501296; contact: LGE) SA2 LS in Rel-19 5G\_ProSe\_Ph3 To:RAN2, RAN3

[R2-2500068](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500068.zip) Reply LS on relay discovery announcement (S2-2501334; contact: LGE) SA2 LS in Rel-19 NR\_SL\_relay\_multihop-Core, 5G\_ProSe\_Ph3 To:RAN2

[R2-2500866](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500866.zip) Introduction of multi-hop U2N relay in TS 38.323 Ericsson draftCR Rel-19 38.323 18.4.0 NR\_SL\_relay\_multihop

### 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.

[R2-2500122](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500122.zip) Discussion on multi-hop U2N relay discovery and relay selection NEC discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500187](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500187.zip) Discussion on Multi-hop Discovery and (Re)selection CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500192](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500192.zip) Discovery and relay (re)selection for multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500307](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500307.zip) Considerations on relay discovery and (re)selection Samsung discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500420](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500420.zip) One remaining issue on multi-hop U2N Relay Discovery message forwarding ASUSTeK discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500432](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500432.zip) Relay discovery and selection for Multi-hop UE-to-NW Relay Apple discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500497](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500497.zip) Discovery and Relay (Re)Selection for Multi-hop U2N Relays InterDigital discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500508](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500508.zip) Discussion on the discovery and relay (re)selection for multi-hop U2N relay LG Electronics Inc. discussion

[R2-2500570](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500570.zip) Consideration on multi-hop relay discovery and reselection China Telecom discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500632](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500632.zip) Relay (re)selection in Multi-hop relay Lenovo discussion Rel-19

[R2-2500700](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500700.zip) Relay discovery and (re)selection for multi-hop Relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500723](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500723.zip) [Draft] LS on legacy UE participation in multi-hop UE communication Nokia LS out NR\_SL\_relay\_multihop To:SA2

[R2-2500724](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500724.zip) Relay discovery and (re)selection Nokia discussion NR\_SL\_relay\_multihop [R2-2410288](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410288.zip)

[R2-2500753](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500753.zip) Multi-hop relay selection/re-selection Sony discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500865](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500865.zip) Discussion on relay discovery and relay (re)selection Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500905](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500905.zip) Discussion on multi-hop Relay discovery and (re)selection ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500933](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500933.zip) Discovery and (re)selection under multihop relay Kyocera discussion

[R2-2501118](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501118.zip) Discussion on topology and intermediate relay UE (re)selection vivo discussion Rel-19

[R2-2501174](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501174.zip) Relay discovery and (re)selection TCL discussion

[R2-2501183](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501183.zip) discussion on Relay discovery and (re)selection for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2501259](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501259.zip) Discovery and Relay (re)selection for multi-hop U2N relay Qualcomm Incorporated discussion NR\_SL\_relay\_multihop-Core

### 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 [Post128][401][Relay] Control plane baseline solution (InterDigital)

[R2-2500188](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500188.zip) Discussion on the Control Plane Procedures CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500194](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500194.zip) Control plane procedures of multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500300](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500300.zip) Control Plane aspects for Multi-hop Relay NEC discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500308](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500308.zip) Consideration on CP issues for multi-hop SL relay Samsung discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500433](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500433.zip) Discussion on Control Plane for Multi-hop UE-to-NW Relay Apple discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500434](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500434.zip) Discussion on SRAP for Multi-hop Layer-2 U2N Relay Apple discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500496](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500496.zip) Report of [Post128][401][Relay] Control Plane Baseline Solution InterDigital discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500498](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500498.zip) Control Plane Handling for Multi-hop U2N Relays InterDigital discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500509](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500509.zip) Discussion on the control plane procedure for multi-hop U2N relay LG Electronics Inc. discussion

[R2-2500561](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500561.zip) Discussion on control plane aspects for NR sidelink multi-hop relay China Telecom discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500633](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500633.zip) Control plane in Multi-hop relay Lenovo discussion Rel-19

[R2-2500701](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500701.zip) Control plane procedures for multi-hop relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500725](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500725.zip) SRAP impacts on MH relay Nokia discussion NR\_SL\_relay\_multihop [R2-2410290](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2410290.zip) Withdrawn

[R2-2500864](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500864.zip) Discussion on control plane procedures Ericsson, Apple, AT&T, InterDigital Inc, FirstNet, Qualcomm Incorporated discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500898](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500898.zip) Discussion on control plane procedures for multi-hop SL Relay ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500913](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500913.zip) SRAP design for R19 multi-hop SL relaying Samsung R&D Institute UK discussion

[R2-2500934](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500934.zip) Control Plane under multihop L2 U2N relaying Kyocera discussion

[R2-2500953](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500953.zip) Discussion on control plane procedure for SL multi-hop relay KT Corp. discussion

[R2-2501119](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501119.zip) Discussion on CP and SRAP impact for baseline procedure vivo discussion Rel-19

[R2-2501184](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501184.zip) discussion on C-plane procedure for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2501260](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501260.zip) Open issue for control plane approach 1 Qualcomm Incorporated discussion NR\_SL\_relay\_multihop-Core

### 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.

[R2-2500189](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500189.zip) Intra-gNB Service Continuity for Multi-hop U2N Relay CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500193](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500193.zip) Service continuity of multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500421](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500421.zip) RRC states of candidate Relay UEs for path switching ASUSTeK discussion Rel-19 NR\_SL\_relay\_multihop

[R2-2500510](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500510.zip) Discussion on service continuity for multi-hop U2N relay LG Electronics Inc. discussion

[R2-2500562](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500562.zip) Discussion on service continuity for multi-hop relay China Telecom discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500634](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500634.zip) Service continuity for Multi-hop system Lenovo discussion Rel-19

[R2-2500702](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500702.zip) Discussion on service continuity for Multi-hop Relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500733](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500733.zip) Considerations on Service Continuity of Multi-hop Relay NEC discussion

[R2-2500906](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500906.zip) Discussion on service continuity for multi-hop SL relay ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop-Core

[R2-2500927](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500927.zip) Intra-gNB Service Continuity for Multi-Hop Relays Ericsson discussion Rel-19

[R2-2500935](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500935.zip) Service Continuity for U2N multihop relay Kyocera discussion

[R2-2501120](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501120.zip) Discussion on Service continuity for multi-hop relay vivo discussion Rel-19

[R2-2501185](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501185.zip) discussion on service continuity for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

## 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

[R2-2500016](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500016.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

[R2-2500027](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500027.zip) Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (Access Control and Additional ULI) (R3-247909; contact: Samsung) RAN3 LS in Rel-19 FS\_VMR\_Ph2, NR\_WAB\_5GFemto-Core To:SA2 Cc:RAN2

[R2-2500028](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500028.zip) Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (MWAB mobility) (R3-247910; contact: Qualcomm) RAN3 LS in Rel-19 FS\_VMR\_Ph2 To:SA2 Cc:RAN2

[R2-2500046](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500046.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

[R2-2500065](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500065.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

[R2-2500069](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500069.zip) Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (MWAB mobility) (R3-247910; contact: Nokia) SA2 LS in Rel-19 VMR\_Ph2 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)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

Including outcome of email discussion [Post128][403][POS] NavIC L1 stage 3 CR check (Reliance Jio)

[R2-2500108](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500108.zip) Introduction of NavIC L1 SPS A-GNSS in LPP Reliance Jio, ISRO, Ericsson, MediaTek, CEWiT CR Rel-19 37.355 18.4.0 0532 1 B LCS\_NAVIC\_L1\_SPS\_NR\_LTE-Core [R2-2409726](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2409726.zip) Late

[R2-2500361](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500361.zip) [Post128][403][POS] NavIC L1 stage 3 CR check (Reliance Jio) Reliance Jio discussion Rel-19 LCS\_NAVIC\_L1\_SPS\_NR\_LTE-Core Late

[R2-2500811](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500811.zip) Discussion on the support of NavIC L1 SPS Huawei, HiSilicon discussion Rel-19 LCS\_NAVIC\_L1\_SPS\_NR\_LTE-Core

[R2-2500972](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500972.zip) NavIC broadcast ephemeris to refer to for GNSS SSR corrections Ericsson, Reliance Jio discussion

## 8.16 BDS B2b in A-GNSS

LCS\_BDS\_B2b\_LTE\_NR; leading WG: RAN2; REL-19; WID RP-242459)

Time budget: 0.25 TU

Tdoc Limitation: 1 tdoc

Including outcome of email discussion [Post128][402][POS] BDS B2b stage 3 CR check (CATT)

[R2-2500278](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500278.zip) [Post128][402][POS] BDS B2b stage 3 CR check (CATT) CATT discussion Rel-19 LCS\_BDS\_B2b\_LTE\_NR

[R2-2500279](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500279.zip) Introduction of B2b signal in BDS system in A-GNSS CATT, CAICT, Ericsson, Huawei, HiSilicon CR Rel-19 37.355 18.4.0 0545 - B LCS\_BDS\_B2b\_LTE\_NR

[R2-2500810](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500810.zip) Discussion on the remaining issues for BDS B2b Huawei, HiSilicon discussion Rel-19 LCS\_BDS\_B2b\_LTE\_NR

[R2-2500973](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500973.zip) Remaining issues of BDS B2b Signal Addition Ericsson discussion

## 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

[R2-2500085](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500085.zip) Discussion on RAN2 Imapcts of IoT-NTN TDD Mode vivo discussion Rel-19 IoT\_NTN\_TDD-Core

[R2-2500175](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500175.zip) Work plan for WID: introduction of IoT-NTN TDD mode Iridium Satellite LLC Work Plan Rel-19 IoT\_NTN\_TDD

[R2-2500206](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500206.zip) Discussion on RAN2 impacts of IoT-NTN TDD Huawei, HiSilicon discussion Rel-19 IoT\_NTN\_TDD

[R2-2500312](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500312.zip) Discussion on IoT NTN TDD mode OPPO discussion Rel-19 IoT\_NTN\_TDD

[R2-2500390](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500390.zip) Discussion on IoT-NTN TDD mode Iridium Satellite LLC discussion Rel-19 IoT\_NTN\_TDD

[R2-2500527](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500527.zip) Discussion on support of IoT NTN TDD CATT discussion

[R2-2500536](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500536.zip) Discussion on new NB-IoT NTN TDD mode Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_TDD

[R2-2500549](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500549.zip) Discussion on support of TDD mode for IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_TDD

[R2-2500587](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500587.zip) Discussion on supporting IoT NTN TDD mode Apple discussion Rel-19 IoT\_NTN\_TDD

[R2-2500621](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500621.zip) Discussion on TDD support in IoT NTN Lenovo discussion Rel-19

[R2-2500773](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500773.zip) Consideration on IoT-NTN TDD mode ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_TDD

[R2-2500923](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500923.zip) Signaling aspects of IoT-NTN TDD mode TOYOTA Info Technology Center discussion Rel-19 IoT\_NTN\_TDD-Core

[R2-2500936](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500936.zip) Discussion of adaptions to support IoT-NTN TDD THALES discussion Rel-19 IoT\_NTN\_TDD-Core

[R2-2501036](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501036.zip) Support of IoT-NTN TDD mode CMCC discussion Rel-19 IoT\_NTN\_TDD

[R2-2501277](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501277.zip) Initial aspects on IoT NTN TDD Samsung 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#129.

**NTN**

[R2-2500086](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500086.zip) On LTE TN to NB-IoT NTN Mobility Handling vivo discussion Rel-19 TEI19

[R2-2501276](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501276.zip) Re-direction to an NTN frequency Samsung discussion Rel-19 TEI19

**SDT BWP restriction**

[R2-2500370](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500370.zip) Handling downlink BWP restriction for MT-SDT Samsung discussion Rel-19 TEI19

[R2-2500662](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500662.zip) SDT enhancement for DL bandwidth restriction NEC Corporation discussion Rel-19 TEI19

[R2-2500754](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500754.zip) Initial DL BWP restriction for MT-SDT Sony discussion Rel-19 TEI19

[R2-2500776](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500776.zip) Addressing Bandwidth Restrictions for MT-SDT Ericsson, T-Mobile US, Deutsche Telekom discussion Rel-19 TEI19

[R2-2500780](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500780.zip) SDT on separate BWP ZTE Corporation, Sanechips discussion

[R2-2500823](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500823.zip) BWP restriction in MT-SDT LG Electronics Inc. discussion Rel-19 TEI19

[R2-2500897](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500897.zip) Discussion on SDT data transmission restrictions Huawei, HiSilicon discussion Rel-19 TEI19

[R2-2500995](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500995.zip) CORESET 0 restriction for DL BWP for SDT Nokia, InterDigital discussion Rel-19 TEI19

**ANR**

[R2-2501113](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501113.zip) Discussion on the issue of ANR reporting of HSDN cells [ANR\_HSDN] Huawei, HiSilicon, CMCC, China Unicom, China Telecom, CATT, NTT DoCoMo discussion Rel-19 TEI19

**Packet based priority access**

[R2-2501078](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501078.zip) Discussion on packet priority based access control SK Telecom, LG Uplus discussion

**NPN**

[R2-2500111](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500111.zip) Discussion on ProSe for NPN OPPO discussion Rel-19 TEI19

[R2-2500362](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500362.zip) ProSe support in NPN [ProSe\_NPN] Nokia, ZTECorporation, Sanechips, LGE, Philips CR Rel-19 38.300 18.4.0 0957 - C TEI19

[R2-2500422](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500422.zip) ProSe support in NPN [ProSe\_NPN] ZTE Corporation, Sanechips, Nokia, LGE, Philips CR Rel-19 38.331 18.4.0 5209 - C TEI19

**Positioning**

*To be handled in breakout session*

[R2-2500820](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500820.zip) Discussion on the control parameters for on-demand posSIB request [PosOdSIB-Req] Huawei, HiSilicon, CATT, Ericsson, Qualcomm discussion Rel-19 TEI19

[R2-2500970](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500970.zip) Introduction of Location Coordinate Reference Systems Ericsson, AT&T, FirstNet, Deutsche Telekom, MediaTek Inc. discussion

=> Revised in [R2-2501329](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501329.zip)

[R2-2501329](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501329.zip) Introduction of Location Coordinate Reference Systems Ericsson, AT&T, FirstNet, Deutsche Telekom, MediaTek Inc., ESA discussion

**UE aggregation**

[R2-2501053](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501053.zip) Discussion on UE aggregation enhancement CMCC,ZTE,MediaTek,vivo,Huawei,Meta,CATT discussion Rel-19 TEI19

[R2-2501054](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501054.zip) Corrections to TS 38.300 on multi-path relay enhancement CMCC,ZTE,MediaTek,vivo,Huawei,CATT draftCR Rel-19 38.300 18.4.0 TEI19

[R2-2501055](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501055.zip) Corrections to TS 38.321 on multi-path relay enhancement CMCC,ZTE,MediaTek,vivo,Huawei,CATT draftCR Rel-19 38.321 18.4.0 TEI19

[R2-2501056](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501056.zip) Corrections to TS 38.323 on multi-path relay enhancement CMCC,ZTE,MediaTek,vivo,Huawei,CATT draftCR Rel-19 38.323 18.4.0 TEI19

[R2-2501057](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501057.zip) Corrections to TS 38.331 on multi-path relay enhancement CMCC,ZTE,MediaTek,vivo,Huawei,CATT draftCR Rel-19 38.331 18.4.0 TEI19

[R2-2501058](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501058.zip) Corrections to TS 38.306 on multi-path relay enhancement CMCC,ZTE,MediaTek,vivo,Huawei,CATT draftCR Rel-19 38.306 18.4.0 TEI19

## 8.19 NR Others

Tdoc limit: 1

Contributions addressing LS from RAN4 R4-2420410 and any RAN4 LSs not related to any of the AIs above.

On Ku band numerology

*To be treated in NTN breakout session*

[R2-2500034](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500034.zip) LS on Ku band numerology (R4-2419902; contact: Rumney Telecom)              RAN4    LS in     Rel-19    NR\_NTN\_Ku\_bands-Core           To:RAN1, RAN2    Cc:RAN

[R2-2500087](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500087.zip) Discussion on RAN4 LS on Ku Band Numerology   vivo     discussion          Rel-19   NR\_NTN\_Ku\_bands-Core

[R2-2500694](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500694.zip) Discussion on Ku band numerology             Huawei, HiSilicon   discussion          Rel-19   NR\_NTN\_Ku\_bands-Core

[R2-2500937](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500937.zip) Draft Reply LS on Ku band numerology       THALES    LS out   Rel-19   NR\_NTN\_Ku\_bands-Core    To:RAN4            Cc:RAN1, RAN

[R2-2500979](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500979.zip) Reply LS on Ku band numerology  Eutelsat Group  LS out    Rel-19   NR\_NTN\_Ku\_bands-Core           To:RAN4    Cc:RAN, RAN1

Location services

To be treated in positioning breakout session

[R2-2500047](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500047.zip) LS on Location service of UEs served by MWAB (S2-2412625; contact: Huawei)              SA2       LS in     Rel-19    VMR\_Ph2           To:RAN3            Cc:RAN2

On UE capability for FDD-FDD inter-band CA

[R2-2500041](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500041.zip) LS on UE capability for FDD-FDD inter-band CA simultaneous Rx/Tx (R4-2420410; contact: CATT)  RAN4    LS in     Rel-19   NR\_CADC\_SUL\_R19    To:RAN2    Cc:RAN1

[R2-2500229](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500229.zip) Discussion on FDD-FDD inter-band CA simultaneous RxTx (LS R4-2420410)      CATT, Huawei, HiSilicon, China Telecom, China Unicom    discussion          Rel-19    NR\_CADC\_SUL\_R19

[R2-2500230](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500230.zip) DRAFT Reply LS on UE capability for FDD-FDD inter-band CA simultaneous RxTx           CATT    LS out   Rel-19    NR\_CADC\_SUL\_R19    To:RAN4            Cc:RAN1

[R2-2500113](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500113.zip) Discussion on n5-n8 simultaneous operation (R4-2420410) OPPO   discussion          Rel-19    NR\_CADC\_SUL\_R19

[R2-2500932](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500932.zip) On UE capability for FDD-FDD inter-band CA simultaneous RxTx             Ericsson             discussion

[R2-2501191](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501191.zip) Capability signalling for overlapping FDD-FDD inter-band CA            Nokia    discussion          Rel-19    NR\_CADC\_SUL\_R19

[R2-2501225](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501225.zip) Consideration on UE capability for FDD-FDD inter-band CA Simultaneous Rx/Tx     ZTE Corporation    discussion          Rel-19   NR\_CADC\_SUL\_R19

On SSB position restrictions for less-than-5MHz Scells

[R2-2500040](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500040.zip) LS on SSB position restrictions for less-than-5MHz Scells (R4-2420383; contact: Qualcomm)              RAN4    LS in    Rel-19   NR\_FR1\_lessthan\_5MHz\_BW\_Ph2-Core    To:RAN2            Cc:RAN1

[R2-2500950](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500950.zip) SSB position restrictions for less-than-5MHz SCells    Qualcomm Incorporated CR        Rel-18   38.331  18.4.0    5249     -             F            NR\_FR1\_lessthan\_5MHz\_BW-Core

*Moved to AI 8.0 General*

[R2-2500051](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500051.zip) LS on energy saving indication from CN to RAN (S2-2413034; contact: Ericsson)            SA2       LS in     Rel-19    EnergySys          To:RAN2, RAN3

[R2-2500055](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500055.zip) LS on Time Synchronization for MBS (S4-242169; contact: Qualcomm)            SA4       LS in     Rel-19   FS\_AMD    To:SA2, RAN2

[R2-2500066](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2500066.zip) Reply LS on Time Synchronization for MBS (S2-2501327; contact: Ericsson) SA2       LS in     Rel-19   FS\_AMD    To:SA4, RAN2

[R2-2501096](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501096.zip) Time Synchronization for MBS Ericsson discussion Rel-19 FS\_AMD

# 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

[R2-2501331](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501331.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

[R2-2501332](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501332.zip) Rel-18 MIMO, Rel-19 MIMO, LPWUS, and SBFD Vice Chairman (CATT) report

## 9.3 Session on NR NTN and IoT NTN

[R2-2501333](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501333.zip) Report from session on NR NTN and IoT NTN Session chair (ZTE) report

## 9.4 Session on positioning and sidelink relay

[R2-2501334](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501334.zip) Report from session on positioning and sidelink relay Session chair (MediaTek) report

## 9.5 Session on R18 MBS, R18 QoE and R19 XR

[R2-2501335](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501335.zip) Report from session on R18 MBS, R18 QoE and R19 XR Session chair (Huawei) report

## 9.6 Session on maintenance and SON/MDT

[R2-2501336](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_129%5CDocs%5CR2-2501336.zip) Report from session on maintenance and SON/MDT Session chair (Ericsson) report