3GPP TSG-RAN WG2 Meeting #131bis R2-250xxxx

Prague, Czech Republic, Oct. 13th-17th

Source: RAN2 Chair (InterDigital)

Title: Agenda

# 1 Opening of the meeting

## 1.1 Call for IPR

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

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

## 1.2 Network usage conditions

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

## 1.3 Other

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

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

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

|  |
| --- |
| **Consensus principles reminder**  The attention of the delegates to the meeting is drawn to the fact that 3GPP endeavours to reach consensus on all decisions and therefore depends on a cooperative spirit of the Individual Members. In particular, Individual Members are encouraged to seek a consensus-based solution and only to sustain objections as a very last resort, and where absolutely necessary and well justified. The leadership will conduct the present meeting in a manner whereby informal methods of reaching consensus are encouraged, whilst ensuring that well justified concerns are taken into account |

|  |
| --- |
| **RAN endorsed working principle for 6G (RP-250766)**  3GPP to create lean and streamlined standards for 6G, e.g., by dimensioning an appropriate set of functionalities, minimizing the adoption of multiple options for the same functionality, avoiding excessive configurations, etc. Any exception to the above shall be well justified. |

# 2 General

## 2.1 Approval of the agenda

R2-2506701 Agenda for RAN2#131bis Chairman agenda

## 2.2 Approval of the report of the previous meeting

R2-2506702 RAN2#131 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.

**Rel-19 CRs**

* CR already agreed in principle but not yet officially agreed must be submitted to RAN2#131 for formal approval under in-principle agreed CRs AIs
* CR editors / Rapporteurs continue to support maintenance related to their respective CR / WI and are required to follow drafting rules
* **Single correction CR per spec** coordinated by CR editor/rapporteurs will be agreed per feature for RAN#132
* **Rapporteurs (except for RRC) should create open issue list for correction phase. See below.**
* CR editors / Rapporteurs should gather miscellaneous and non-controversial issues, if any, for their respective specification prior to submission deadline.  **Other companies are expected to give editorial inputs to the rapporteurs and not have contributions on such issues**.
* Emails to CR editors/rapporteurs should follow the following naming convention when sending emails to rapporteurs:

**[Pre\_RAN2#131bis][CR xx.yyy] Clarification CRs**

* The organizational AIs for each WIs are reserved for rapporteurs only.  CR rapporteurs are expected to submit only 1 CR per spec.
* Companies are expected to submit Tdocs with TP (not CRs).   More specifically, the Tdoc should contain description of open issues/proposal and the proposed corrections/TP in the contribution itself.   Small issues can be included in the tdoc with just short justification same level of detail as in cover sheet.
* RRC ASN.1 changes can be drafted in a NBC way until ASN.1 is frozen, to avoid unnecessary RRC overhead.   The focus should be on drafting the changes in the best possible way.
* Inter-op analysis on Rel-19 CR coverpages in NOT needed

**Open issues**

* A list of open issues for correction phase is expected to be created per CR per WI (except for RRC specification - issues will be maintained in RIL list) and shared as soon as possible.  **The list of CR open issues should be completed by Sept. 19th** from CR editors/rapporteurs.  Companies can contribute to the open issue list and input (if requested) possible resolution.
* Rapporteur and/or company identifying issue can provide proposal on how to resolve the issues
  + For each issue, rapporteurs are requested to explicitly indicate whether further contribution input on the open issue is needed. Input should be requested only for difficult to resolve issues and/or new open issues for which there wasn’t sufficient discussion time to resolve it.
  + Rapporteurs should critically consider the need for contribution on an issue.  If the issue can be resolved with a quick offline during the meeting, then the issue should be marked as to be resolved offline without contributions on that topic.
* Stage 2 corrections and UE capability corrections should be given to rapporteur directly over email discussion and no contributions are expected, unless really needed as specified by rapporteur.
* Companies should follow rapporteurs guidance (i.e. only address open issues for which the rapporteur indicates further input is needed).
* Companies should clearly indicate the open issue number they are addressing in their section and proposal, e.g. Proposal x: (RIL-1, MAC-1, etc) Agree to bla bla

**ASN.1 and Handling of RILs**

* Please review Hakan's email instructions on ASN.1 review.  Instructions are found at:  [Directory Listing /ftp/Email\_Discussions/RAN2/[Misc]/ASN1 review/Rel-19 2025-09](https://www.3gpp.org/ftp/Email_Discussions/RAN2/%5BMisc%5D/ASN1%20review/Rel-19%202025-09)
* Companies are expected to provide their TPs/Comments in the RIL Comment file and not submit contributions.   WI CR and RRC spec Rapporteurs can identify the critical RILs that require further contribution inputs.
* Single Tdoc containing 1 or more RIL resolutions per WI is expected.    Companies are highly encouraged to work offline to resolve the issues.

Rel-19 UE capabilities

- EUTRA UE capabilities are covered by separate CRs

- All NR UE capabilities will be included common Mega CRs (38306 and 38331) covering all Rel-19 WIs (end outcome).

During the work on NR UE caps:

- In a Common Rel-19 Agenda Item (AI): RAN1 and RAN4 feature corrections are handled jointly under a common AI, with some explicit exceptions. UE capabilities will be included in UE cap MegaCR directly from UE capability rapporteur

- In WI-specific Rel-19 Agenda Items: RAN2 specific UE capabilities are handled per WI and endorsed as individual CRs. Final endorsed CRs will be merged into mega CR post meeting.

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.

For each R19 feature, 1 additional tdoc on top of the limit is allowed for a primary co-sourcing company for co-sourced contribution with 4 or more companies (this also applies to RILs).

Tdoc request/submission for RAN2#131bis deadlines:

* Tdoc Submission deadline: Oct 3rd, 2025

## 2.5 Others

R2-2506703 RAN2 Handbook MCC discussion Late

# 3 Incoming liaisons

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

# 4 EUTRA Rel-17 and earlier

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

## 4.1 EUTRA corrections Rel-17 and earlier

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

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

(LTE TEI17)

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

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

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

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

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

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

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

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

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

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

R2-2506976 Correction on GNSS position acquisition Xiaomi CR Rel-17 36.331 17.14.0 5158 - F LTE\_NBIOT\_eMTC\_NTN-Core

R2-2506977 Correction on GNSS position acquisition Xiaomi CR Rel-18 36.331 18.7.0 5159 - A LTE\_NBIOT\_eMTC\_NTN-Core

R2-2507248 Clarification that MINT applicability only applies to E-UTRA connected to 5GC [MINT] Huawei, HiSilicon CR Rel-17 36.306 17.10.0 1926 - F TEI17

R2-2507249 Clarification that MINT applicability only applies to E-UTRA connected to 5GC [MINT] Huawei, HiSilicon CR Rel-18 36.306 18.6.0 1927 - A TEI17

R2-2507252 Clarification that MINT applicability only applies to E-UTRA connected to 5GC [MINT] Huawei, HiSilicon CR Rel-19 36.306 19.0.0 1928 - A TEI17

R2-2507316 Correction to uplink grant allocation for Semi-Persistent Scheduling for TDD TOYOTA Info Technology Center, Lenovo CR Rel-19 36.321 19.0.0 1597 - F LTE\_LATRED\_L2-Core, TEI19

R2-2507325 Correction to preallocated uplink grant for TDD TOYOTA Info Technology Center, Lenovo CR Rel-19 36.321 19.0.0 1598 - F LTE\_eMob-Core, TEI19 Revised

R2-2507413 Correction on event triggered based logged MDT configuration Huawei, HiSilicon, CMCC, ZTE CR Rel-17 36.331 17.14.0 5164 - F NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507414 Correction on event triggered based logged MDT configuration Huawei, HiSilicon, CMCC, ZTE CR Rel-18 36.331 18.7.0 5165 - A NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507415 Correction on event triggered based logged MDT configuration Huawei, HiSilicon, CMCC, ZTE CR Rel-19 36.331 19.0.0 5166 - A NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507459 Correction to preallocated uplink grant for TDD TOYOTA Info Technology Center, Lenovo CR Rel-19 36.321 19.0.0 1598 1 F LTE\_eMob-Core, TEI19 R2-2507325

R2-2507477 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-17 36.306 17.10.0 1930 - F LTE\_NBIOT\_eMTC\_NTN-Core

R2-2507478 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-18 36.306 18.6.0 1931 - A LTE\_NBIOT\_eMTC\_NTN-Core

R2-2507479 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-17 36.331 17.14.0 5169 - F LTE\_NBIOT\_eMTC\_NTN-Core

R2-2507480 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-18 36.331 18.7.0 5170 - A LTE\_NBIOT\_eMTC\_NTN-Core

## 4.3 Positioning corrections Rel-16 and earlier

(LTE\_NavIC-Core, LTE TEI16 Positioning), REL-15 and Earlier WIs related to positioning are in scope but not listed explicitly (long list).

Tdoc Limitation: 1 tdoc

# 5 NR Rel-15 and Rel-16

Essential corrections only.

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

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

## 5.1 Common

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(NR TEI16)

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

### 5.1.1 Stage 2 and Organisational

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

### 5.1.2 User Plane corrections

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

#### 5.1.2.1 MAC

R2-2507636 Correction to F field in MAC subheader for SL-SCH NTT DOCOMO, INC., Qualcomm Incorporated, Samsung CR Rel-16 38.321 16.21.0 2132 - F 5G\_V2X\_NRSL-Core

R2-2507637 Correction to F field in MAC subheader for SL-SCH NTT DOCOMO, INC., Qualcomm Incorporated, Samsung CR Rel-17 38.321 17.14.0 2133 - A 5G\_V2X\_NRSL-Core

R2-2507638 Correction to F field in MAC subheader for SL-SCH NTT DOCOMO, INC., Qualcomm Incorporated, Samsung CR Rel-18 38.321 18.7.0 2134 - A 5G\_V2X\_NRSL-Core

#### 5.1.2.2 RLC PDCP SDAP BAP

### 5.1.3 Control Plane corrections

#### 5.1.3.1 NR RRC

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

R2-2507107 Clarification of the single SCS per frequency restriction Apple CR Rel-15 38.331 15.30.0 5511 - F NR\_newRAT-Core

R2-2507108 Clarification of the single SCS per frequency restriction Apple CR Rel-16 38.331 16.21.0 5512 - A NR\_newRAT-Core

R2-2507109 Clarification of the single SCS per frequency restriction Apple CR Rel-17 38.331 17.14.0 5513 - A NR\_newRAT-Core

R2-2507110 Clarification of the single SCS per frequency restriction Apple CR Rel-18 38.331 18.7.0 5514 - A NR\_newRAT-Core

R2-2507227 On continuing acquiring PWS notification(s) until it re-acquires schedulingInfoList in SIB1 Samsung CR Rel-15 38.331 15.30.0 5520 - F NR\_newRAT-Core

R2-2507228 On continuing acquiring PWS notification(s) until it re-acquires schedulingInfoList in SIB1 Samsung CR Rel-16 38.331 16.21.0 5521 - A NR\_newRAT-Core

R2-2507230 On continuing acquiring PWS notification(s) until it re-acquires schedulingInfoList in SIB1 Samsung CR Rel-17 38.331 17.14.0 5522 - A NR\_newRAT-Core

R2-2507231 On continuing acquiring PWS notification(s) until it re-acquires schedulingInfoList in SIB1 Samsung CR Rel-18 38.331 18.7.0 5523 - A NR\_newRAT-Core

R2-2507416 Correction on event triggered based logged MDT configuration Huawei, HiSilicon, CMCC, ZTE CR Rel-16 38.331 16.21.0 5531 - F NR\_SON\_MDT-Core

R2-2507417 Correction on event triggered based logged MDT configuration Huawei, HiSilicon, CMCC, ZTE CR Rel-17 38.331 17.14.0 5532 - A NR\_SON\_MDT-Core

R2-2507418 Correction on event triggered based logged MDT configuration Huawei, HiSilicon, CMCC, ZTE CR Rel-18 38.331 18.7.0 5533 - A NR\_SON\_MDT-Core

R2-2507419 Correction on event triggered based logged MDT configuration Huawei, HiSilicon, CMCC, ZTE CR Rel-19 38.331 19.0.0 5534 - A NR\_SON\_MDT-Core

R2-2507595 Clarification of SSB-less SCell Ericsson CR Rel-15 38.331 15.30.0 5549 - F NR\_newRAT-Core

R2-2507596 Clarification of SSB-less SCell Ericsson CR Rel-16 38.331 16.21.0 5550 - A NR\_newRAT-Core

R2-2507597 Clarification of SSB-less SCell Ericsson CR Rel-17 38.331 17.14.0 5551 - A NR\_newRAT-Core

R2-2507598 Clarification of SSB-less SCell Ericsson CR Rel-18 38.331 18.7.0 5552 - A NR\_newRAT-Core

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

#### 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.

# 6 NR Rel-17

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

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

## 6.1 Common

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PRACH partitioning items

(NR TEI17)

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

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

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

### 6.1.1 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)

R2-2506723 Reply LS on emergency call back and paging (R3-255883; contact: Qualcomm) RAN3 LS in Rel-17 NR\_newRAT-Core, NR\_redcap-Core To:SA2 Cc:RAN2, CT1, RAN

R2-2506725 LS on compatibility issue for PEI and emergency PDU session (R3-255906; contact: ZTE) RAN3 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:SA2 Cc:CT1, RAN2

R2-2507023 Correction on PEI in emergency PDU session Vivo, Nokia (Rapporteur) CR Rel-17 38.300 17.14.0 1037 - F NR\_UE\_pow\_sav\_enh-Core

R2-2507024 Correction on PEI in emergency PDU session Vivo, Nokia (Rapporteur) CR Rel-18 38.300 18.7.0 1038 - A NR\_UE\_pow\_sav\_enh-Core

R2-2507025 Correction on PEI in emergency PDU session Vivo, Nokia (Rapporteur) CR Rel-19 38.300 19.0.0 1039 - A NR\_UE\_pow\_sav\_enh-Core

R2-2507608 Consideration on the LS on compatibility issue for PEI and emergency PDU session ZTE Corporation, Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2507609 Reply LS on compatibility issue for PEI and emergency PDU session ZTE Corporation, Sanechips LS out Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN3, SA2 Cc:CT1

### 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).

### 6.1.3 Control Plane corrections

#### 6.1.3.1 NR RRC

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

R2-2506794 Correction on previousPSCellId in SCGFailureInformation CATT CR Rel-17 38.331 17.13.0 5487 - F NR\_ENDC\_SON\_MDT\_enh-Core

R2-2506795 Correction on previousPSCellId in SCGFailureInformation CATT CR Rel-18 38.331 18.6.0 5488 - A NR\_ENDC\_SON\_MDT\_enh-Core

R2-2506796 Correction on previousPSCellId in SCGFailureInformation CATT CR Rel-19 38.331 18.6.0 5489 - A NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507004 Correction on subcarrierSpacing values in IE SCS-SpecificCarrier Huawei, HiSilicon CR Rel-17 38.331 17.14.0 5500 - F NR\_ext\_to\_71GHz-Core

R2-2507005 Correction on subcarrierSpacing values in IE SCS-SpecificCarrier Huawei, HiSilicon CR Rel-18 38.331 18.7.0 5501 - A NR\_ext\_to\_71GHz-Core

R2-2507006 Correction on subcarrierSpacing values in IE SCS-SpecificCarrier Huawei, HiSilicon CR Rel-19 38.331 19.0.0 5502 - A NR\_ext\_to\_71GHz-Core

R2-2507066 Correction on uac-BarringFactorForAI3 absence case [MINT] Huawei, HiSilicon CR Rel-17 38.331 17.14.0 5505 - F TEI17

R2-2507067 Correction on uac-BarringFactorForAI3 absence case [MINT] Huawei, HiSilicon CR Rel-18 38.331 18.7.0 5506 - A TEI17

R2-2507068 Correction on uac-BarringFactorForAI3 absence case [MINT] Huawei, HiSilicon CR Rel-19 38.331 19.0.0 5507 - A TEI17

R2-2507390 Correction on pdcp-Config for SRB4 Samsung, Ericsson CR Rel-17 38.331 17.14.0 5527 - F NR\_QoE-Core

R2-2507554 Correction on SCGFailureInformation Samsung, Ericsson CR Rel-17 38.331 17.14.0 5545 - F NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507566 Correction on SCGFailureInformation Samsung, Ericsson CR Rel-18 38.331 18.7.0 5546 - A NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507620 Correction on setting timeSinceCHO-Reconfig when the failure is due to RLF Ericsson CR Rel-17 38.331 17.14.0 5555 - F NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507621 Correction on setting timeSinceCHO-Reconfig when the failure is due to RLF Ericsson CR Rel-18 38.331 18.7.0 5556 - A NR\_ENDC\_SON\_MDT\_enh-Core

R2-2507622 Correction on setting timeSinceCHO-Reconfig when the failure is due to RLF Ericsson CR Rel-19 38.331 19.0.0 5557 - A NR\_ENDC\_SON\_MDT\_enh-Core

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

R2-2507164 Correction on UL Tx switching MIMO coherence capabilities ZTE Corporation CR Rel-17 38.331 17.14.0 5515 - F NR\_RF\_FR1\_enh-Core

R2-2507165 Correction on UL Tx switching MIMO coherence capabilities ZTE Corporation CR Rel-18 38.331 18.7.0 5516 - A NR\_RF\_FR1\_enh-Core, NR\_MC\_enh-Core

R2-2507166 Correction on UL Tx switching MIMO coherence capabilities ZTE Corporation CR Rel-19 38.331 19.0.0 5517 - A NR\_RF\_FR1\_enh-Core, NR\_MC\_enh-Core

R2-2507481 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-17 38.306 17.14.0 1368 - F NR\_NTN\_solutions-Core

R2-2507482 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-18 38.306 18.7.0 1369 - A NR\_NTN\_solutions-Core

R2-2507483 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-17 38.331 17.14.0 5535 - F NR\_NTN\_solutions-Core

R2-2507484 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-18 38.331 18.7.0 5536 - A NR\_NTN\_solutions-Core Revised

R2-2507495 Introduce UE capability for UE coarse location reporting Xiaomi CR Rel-18 38.331 18.7.0 5536 1 A NR\_NTN\_solutions-Core R2-2507484

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

## 6.3 NR positioning enhancements

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

# 7 NR Rel-18

## 7.0 Common

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

### 7.0.1 UE Capabilities

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

### 7.0.2 Rel-18 corrections

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

*Tdoc limitation: 4*

#### 7.0.2.1 RACH-less HO

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

R2-2507399 Correction on releasing CFRA resources in case of RACH-less handover Ericsson CR Rel-18 38.331 18.7.0 5528 - F TEI18

#### 7.0.2.2 NR network-controlled repeaters

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

#### 7.0.2.3 NR support for UAV

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

#### 7.0.2.4 Mobile Terminated Small Data Transmission

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

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

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

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

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

R2-2507631 Correction on application of restrictions to mIAB-MT Samsung CR Rel-18 38.304 18.4.0 0449 - F NR\_mobile\_IAB-Core

#### 7.0.2.7 Timing Resiliency and URLLC Enh

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

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

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

#### 7.0.2.9 Further NR coverage enhancements

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

#### 7.0.2.10 Network energy savings for NR

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

R2-2507274 MAC correction on UE transmissions during Cell DRX Huawei, HiSilicon CR Rel-18 38.321 18.7.0 2128 - F Netw\_Energy\_NR-Core

R2-2507275 Stage-2 correction on UE transmissions during Cell DRX Huawei, HiSilicon CR Rel-18 38.300 18.7.0 1043 - F Netw\_Energy\_NR-Core

R2-2507276 MAC correction on UE transmissions during Cell DRX Huawei, HiSilicon CR Rel-19 38.321 19.0.0 2129 - A Netw\_Energy\_NR-Core

R2-2507277 Stage-2 correction on UE transmissions during Cell DRX Huawei, HiSilicon CR Rel-19 38.300 19.0.0 1044 - A Netw\_Energy\_NR-Core

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

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

R2-2506790 Correction on nrPreviousCell logging in RLF report CATT CR Rel-18 38.331 18.6.0 5483 - F NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2506791 Correction on nrPreviousCell logging in RLF report CATT CR Rel-19 38.331 18.6.0 5484 - A NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2506792 Correction on timeSinceSHR in SHR CATT CR Rel-18 38.331 18.6.0 5485 - F NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2506793 Correction on timeSinceSHR in SHR CATT CR Rel-19 38.331 18.6.0 5486 - A NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2507519 Correction to CPAC MRO ZTE Corporation, CMCC, Huawei, Ericsson, Sanechips CR Rel-18 38.331 18.7.0 5538 - F NR\_ENDC\_SON\_MDT\_enh2-Core

R2-2507520 Correction to CPAC MRO ZTE Corporation, CMCC, Huawei, Ericsson, Sanechips CR Rel-19 38.331 19.0.0 5539 - A 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))

#### 7.0.2.13 NR MIMO evolution

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

R2-2506731 Reply LS on maximum transmission power for STxMP (R4-2511781; contact: vivo) RAN4 LS in Rel-20 NR\_MIMO\_evo\_DL\_UL-Core To:RAN1 Cc:RAN2

R2-2507547 Correction on dependency of group-based beam reporting Nokia CR Rel-18 38.331 18.7.0 5543 - F NR\_MIMO\_evo\_DL\_UL-Core

R2-2507548 Correction on dependency of group-based beam reporting Nokia CR Rel-19 38.331 19.0.0 5544 - A 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))

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

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

R2-2506724 Reply LS on MBS Communication Service Type (R3-255896; contact: Nokia) RAN3 LS in Rel-18 NR\_QoE\_enh-Core To:SA4 Cc:RAN2, SA5

R2-2507546 Correction on pdcp-Config for SRB4 and SRB5 Samsung, Ericsson CR Rel-18 38.331 18.7.0 5542 - F 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))

R2-2507028 Discussion on DSR triggering for R18 XR vivo discussion Rel-18 NR\_XR\_enh-Core

R2-2507282 Discussion on DSR triggering for RLC segment LG Electronics Inc. discussion Rel-18 NR\_XR\_enh-Core

R2-2507473 Clarification on DSR Triggering Ericsson discussion

#### 7.0.2.17 NR NTN enhancements

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

R2-2506990 Correction on eventD2 with multiple moving reference locations CSCN, ZTE Corporation, Sanechips, Huawei, Hisilicon, Xiaomi, CATT, OPPO discussion Rel-18 NR\_NTN\_enh-Core

R2-2506996 Corrections on eventD2 CSCN, ZTE Corporation, Sanechips, Huawei, Hisilicon, OPPO CR Rel-18 38.331 18.7.0 5496 - F NR\_NTN\_enh-Core

R2-2506997 Corrections on eventD2 CSCN, ZTE Corporation, Sanechips, Huawei, Hisilicon, CATT, OPPO CR Rel-18 38.331 18.7.0 5497 - F NR\_NTN\_enh-Core

R2-2506998 Corrections on eventD2 CSCN, ZTE Corporation, Sanechips, Huawei, Hisilicon, OPPO CR Rel-18 38.331 18.7.0 5498 - F NR\_NTN\_enh-Core

#### 7.0.2.18 IoT NTN enhancements

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

#### 7.0.2.19 Enhanced NR Sidelink Relay

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

R2-2507076 Correction on UE capability for MP split ZTE Corporation, Sanechips, CATT CR Rel-18 38.306 18.7.0 1357 - F NR\_SL\_relay\_enh-Core

R2-2507077 Correction on UE capability for MP split ZTE Corporation, Sanechips, CATT CR Rel-19 38.306 19.0.0 1358 - A NR\_SL\_relay\_enh-Core

R2-2507213 Correction to SI reception by remote UE for multi path LG Electronics Inc. CR Rel-18 38.331 18.7.0 5422 1 F NR\_SL\_relay\_enh-Core R2-2505543 Revised

R2-2507214 Correction to SI reception by remote UE for multi path LG Electronics CR Rel-19 38.331 19.0.0 5422 2 A NR\_SL\_relay\_enh-Core R2-2505543

R2-2507215 Correction to SI reception by remote UE for multi path LG Electronics Inc. discussion Rel-18 NR\_SL\_relay\_enh-Core

R2-2507474 U2U Relays, Peer Remote UE Control Plane Procedures Ericsson, Nokia CR Rel-18 38.300 18.7.0 1045 - F NR\_SL\_relay\_enh-Core

R2-2507553 Correction to SI reception by remote UE for multi path LG Electronics CR Rel-18 38.331 18.7.0 5422 3 F NR\_SL\_relay\_enh-Core R2-2507213

#### 7.0.2.20 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))

#### 7.0.2.21 Expanded and improved NR positioning

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

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

R2-2506821 Report of [Post131][410][POS] Stage 2 descriptions for Rel-18 positioning (CATT) CATT discussion Rel-18 NR\_pos\_enh2-Core

R2-2506824 Corrections on LPHAP, carrier phase, bandwidth aggregation and frequency hopping for positioning CATT, Ericsson, Nokia, ZTE Corporation CR Rel-18 38.305 18.6.0 0187 3 F NR\_pos\_enh2-Core R2-2505124

R2-2506825 Corrections on LPHAP, carrier phase, bandwidth aggregation and frequency hopping for positioning(R19 Cat. A CR) CATT, Ericsson, Nokia, ZTE Corporation CR Rel-19 38.305 18.6.0 0198 - A NR\_pos\_enh2-Core

R2-2506969 Correction on AdditionalSpectrumEmission in SL positioning ZTE Corporation CR Rel-18 38.331 18.7.0 5494 - F NR\_pos\_enh2-Core

R2-2506970 Correction on AdditionalSpectrumEmission in SL positioning ZTE Corporation CR Rel-19 38.331 19.0.0 5495 - A NR\_pos\_enh2-Core

R2-2507040 Correction for the description of rangeAndOrDirection Huawei, HiSilicon CR Rel-18 38.355 18.6.0 0016 - F NR\_pos\_enh2-Core Revised

R2-2507152 Correction on RequestLocationInformation for DL-TDOA and DL-AOD Samsung CR Rel-18 37.355 18.6.0 0561 - F NR\_pos\_enh2-Core Withdrawn

R2-2507246 Correction on RequestLocationInformation for DL-TDOA and DL-AOD Samsung, Qualcomm CR Rel-18 37.355 18.6.0 0562 - F NR\_pos\_enh2-Core

R2-2507328 Correction on NCD-SSB Configuration for Positioning China Telecom CR Rel-18 38.331 18.7.0 5524 - F NR\_pos\_enh2-Core

R2-2507330 Correction on NCD-SSB Configuration for Positioning China Telecom CR Rel-19 38.331 19.0.0 5525 - A TEI19, NR\_pos\_enh2-Core

R2-2507349 Correction for the description of rangeAndOrDirection Huawei, HiSilicon CR Rel-19 38.355 19.0.0 0017 - A NR\_pos\_enh2-Core

R2-2507355 Correction for the description of rangeAndOrDirection Huawei, HiSilicon CR Rel-18 38.355 18.6.0 0016 1 F NR\_pos\_enh2-Core R2-2507040

R2-2507533 Correction on processing of sidelink grant on Dedicated SL-PRS resource pool ASUSTeK CR Rel-18 38.321 18.7.0 2131 - F NR\_pos\_enh2-Core

#### 7.0.2.22 Further NR mobility enhancements

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

R2-2506726 LS on the handling of inter-DU L2 reset for LTM (R3-255907; contact: Ericsson) RAN3 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

R2-2506812 Correction on the execution of SCG LTM CATT CR Rel-18 38.331 18.6.0 5490 - F NR\_Mob\_enh2-Core Withdrawn

R2-2506813 Correction on the execution of SCG LTM CATT CR Rel-19 38.331 18.6.0 5491 - A NR\_Mob\_enh2-Core Withdrawn

R2-2507026 Correction on stop of cg-RRC-RetransmissionTimer upon configuredGrantTimer expiration vivo CR Rel-18 38.321 18.7.0 2124 - F NR\_Mob\_enh2-Core

R2-2507027 Correction on stop of cg-RRC-RetransmissionTimer upon configuredGrantTimer expiration vivo CR Rel-19 38.321 19.0.0 2125 - A NR\_Mob\_enh2-Core

R2-2507220 Corrections on validation of reported idle/inactive and reselection measurements Samsung CR Rel-18 38.331 18.7.0 5519 - F NR\_Mob\_enh2-Core

R2-2507381 Corrections on Rel-18 UE capabilities for LTM Huawei, HiSilicon CR Rel-18 38.306 18.7.0 1363 - F NR\_Mob\_enh2

R2-2507382 Corrections on Rel-18 UE capabilities for LTM Huawei, HiSilicon CR Rel-19 38.306 19.0.0 1364 - A NR\_Mob\_enh2

R2-2507386 On inter-DU Layer 2 Reset in LTM Nokia discussion Rel-18 NR\_Mob\_enh2-Core

R2-2507400 Handling of inter-DU L2 reset for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

R2-2507526 Miscellaneous corrections on mobility enhancements ZTE Corporation, Sanechips CR Rel-18 38.331 18.7.0 5540 - F NR\_Mob\_enh2-Core

R2-2507527 Miscellaneous corrections on mobility enhancements ZTE Corporation, Sanechips CR Rel-19 38.331 19.0.0 5541 - A NR\_Mob\_enh2-Core

R2-2507616 Correction on the execution of SCG LTM CATT CR Rel-18 38.331 18.7.0 5554 - F NR\_Mob\_enh2-Core

R2-2507630 Correction on the execution of SCG LTM CATT CR Rel-19 38.331 19.0.0 5558 - A NR\_Mob\_enh2-Core

#### 7.0.2.23 TEI18

R2-2507191 Correction on uplink power control for Type-1 CG-PUSCH [PL RS Type 1 CG] Ofinno CR Rel-18 38.331 18.7.0 5518 - F TEI18

#### 7.0.2.24 Others

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

R2-2506729 LS on 8Rx UE receiver capability definition update request (R4-2509151; contact: China Telecom, Ericsson) RAN4 LS in Rel-18 NR\_ENDC\_RF\_FR1\_enh2-Perf To:RAN2

R2-2506880 Correction on R18 8Rx UE receiver capability definition China Telecom, Ericsson, Huawei, HiSilicon CR Rel-18 38.306 18.6.0 1354 - F NR\_ENDC\_RF\_FR1\_enh2-Perf Withdrawn

R2-2506881 Correction on R18 8Rx UE receiver capability definition China Telecom, Ericsson, Huawei, HiSilicon CR Rel-19 38.306 18.6.0 1355 - A NR\_ENDC\_RF\_FR1\_enh2-Perf Withdrawn

R2-2507167 Correction on UL Tx switching MIMO coherence capabilities ZTE Corporation CR Rel-18 38.306 18.7.0 1359 - F NR\_MC\_enh-Core

R2-2507168 Correction on UL Tx switching MIMO coherence capabilities ZTE Corporation CR Rel-19 38.306 19.0.0 1360 - A NR\_MC\_enh-Core

R2-2507395 Correction on R18 8Rx UE receiver capability definition China Telecom, Ericsson, Huawei, HiSilicon CR Rel-18 38.306 18.7.0 1365 - F NR\_ENDC\_RF\_FR1\_enh2-Perf

R2-2507396 Correction on R18 8Rx UE receiver capability definition China Telecom, Ericsson, Huawei, HiSilicon CR Rel-19 38.306 19.0.0 1366 - A NR\_ENDC\_RF\_FR1\_enh2-Perf

R2-2507599 Clarification of supported band pairs for UL TX switching Ericsson CR Rel-18 38.331 18.7.0 5553 - F NR\_MC\_enh-Core

# 8 NR Rel-19

## 8.0 General

R2-2506711 LS on updated Rel-19 RAN1 UE features lists for LTE after RAN1#122 (R1-2506429; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-19 IoT\_NTN\_Ph3, IoT\_NTN\_TDD, LTE\_terr\_bcast\_Ph2 To:RAN2 Cc:RAN4

### 8.0.1 ASN.1 Review

Contributions on common ASN.1 identified issues and cross-WI identified issues. RILs specific to WI are expected to be discussed in corresponding WI.

*Rapporteur will create separate list that only include the RILs to be discussed in common session. One contribution covering the common session RILs is expected per company. Additional tdoc can be submitted for co-sourced contributions with 4 or more companies.*

R2-2507055 Enhancing the readability of RRC spec [H202] Huawei, HiSilicon discussion TEI19

R2-2507144 Discussion on remaining issues of UE capability OPPO discussion Rel-19 TEI19, NR\_LBCA\_Sw

R2-2507145 Discussion on cross-WI ASN.1 Issues (O000,O001,O003, O004, O005) OPPO discussion Rel-19 NR\_duplex\_evo, NR\_Mob\_Ph4, NR\_LPWUS, Netw\_Energy\_NR\_enh, NR\_SL\_relay\_multihop Late

=> Revised in R2-2507683

R2-2507683 Discussion on cross-WI ASN.1 Issues (O000,O001,O003, O004, O005) OPPO discussion Rel-19 NR\_duplex\_evo, NR\_Mob\_Ph4, NR\_LPWUS, Netw\_Energy\_NR\_enh, NR\_SL\_relay\_multihop

R2-2507222 LTE ASN.1 Review file Samsung discussion Rel-19 Late

R2-2507223 LTE RIL List Samsung discussion Rel-19 Late

R2-2507224 LTE ASN.1 Class 0 Issues Samsung discussion Rel-19 Late

R2-2507617 Discussion on cross-WI ASN.1 Issues (O000,O001,O003, O004, O005) OPPO discussion Rel-19 NR\_duplex\_evo-Core, NR\_Mob\_Ph4-Core, NR\_LPWUS-Core, Netw\_Energy\_NR\_enh-Core, NR\_SL\_relay\_multihop-Core Late

R2-2507684 38331 ASN.1 Multi/Gen RILs Ericsson discussion Rel-19 TEI19

R2-2507685 38331 ASN.1 Review file v000 Ericsson discussion Rel-19 TEI19

R2-2507686 38331 ASN.1 Comments file v000 Ericsson discussion Rel-19 TEI19

R2-2507687 38331 ASN.1 RIL list v000 Ericsson discussion Rel-19 TEI19

### 8.0.2 Other

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

Reserved for UE capability rapporteur input .

R2-2506710 LS on updated Rel-19 RAN1 UE features lists for NR after RAN1#122 (R1-2506426; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-19 NR\_AIML\_air, NR\_MIMO\_Ph5, NR\_duplex\_evo, Netw\_Energy\_NR\_enh, NR\_LPWUS, NR\_Mob\_Ph4, NR\_NTN\_Ph3, NR\_MC\_enh2, TEI19, NR\_LBCA\_Sw To:RAN2 Cc:RAN4

R2-2506720 LS on Rel-19 higher layers parameters list Post RAN1#122 (R1-2506626; contact: Ericsson) RAN1 LS in Rel-19 NR\_AIML\_air, NR\_MIMO\_Ph5, NR\_duplex\_evo, Netw\_Energy\_NR\_enh, NR\_LPWUS, NR\_Mob\_Ph4, NR\_XR\_Ph3, NR\_NTN\_Ph3, IoT\_NTN\_Ph3, IoT\_NTN\_TDD, NR\_MC\_enh2, NR\_LBCA\_Sw, LTE\_terr\_bcast\_Ph2, TEI19 To:RAN2, RAN3 Cc:RAN4

R2-2506734 LS on Rel-19 RAN4 UE feature list for NR (version 2) (R4-2511884; contact: CMCC) RAN4 LS in Rel-19 NR\_ENDC\_RF\_Ph4, NonCol\_intraB\_ENDC\_NR\_CA\_Ph2, NR\_ATG\_enh, NR\_RRM\_Ph5, Netw\_Energy\_NR\_enh, NR\_LPWUS, NR\_Mob\_Ph4, NR\_XR\_Ph3, NR\_FR1\_lessthan\_5MHz\_BW\_Ph2, NR\_LBCA\_Sw, NR\_FR1\_7MHz\_BW, NR\_IoT\_NTN\_req\_test\_enh, NR\_AIML\_air, NR\_NTN\_Ku\_bands, NR\_NTN\_Ph3 To:RAN2 Cc:RAN1

R2-2507586 Corrections on Rel-19 RAN1/4 UE capability Xiaomi CR Rel-19 38.306 19.0.0 1370 - F NR\_LPWUS, NR\_MIMO\_Ph5

R2-2507587 Corrections on Rel-19 RAN1/4 UE capability Xiaomi CR Rel-19 38.331 19.0.0 5547 - F NR\_LPWUS, NR\_AIML\_air, NR\_ENDC\_RF\_Ph4

## 8.1 AI/ML for NR air interface

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

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

### 8.1.1 Organizational

LS, Rapporteur input, including workplan.

Including LSs R2-2506752, R2-2506751, and R2-250675 on R20 data collection and data set and parameter sharing. No contributions should be submitted to address these LSs.

R2-2506722 Reply LS on Logged Data Handling During Handover (R3-255824; contact: Nokia) RAN3 LS in Rel-19 NR\_AIML\_air-Core To:RAN2 Cc:SA5

R2-2506751 Reply LS on signalling feasibility of dataset and parameter sharing (S2-2508104; contact: Samsung) SA2 LS in Rel-19 NR\_AIML\_air-Core To:RAN2 Cc:RAN, RAN1, RAN3, SA, SA3, SA5

R2-2506755 Reply LS on per-UE UE performance metrics (S5-253854; contact: Huawei) SA5 LS in Rel-18 NR\_AIML\_NGRAN-Core To:RAN3 Cc:RAN2

R2-2506757 Reply LS on signalling feasibility of dataset and parameter sharing (S5-254083; contact: Huawei) SA5 LS in Rel-19 NR\_AIML\_air-Core To:RAN2 Cc:RAN, SA, RAN1, RAN3, SA2, SA3

R2-2506759 Reply to LS on Continuous MDT (S5-254110; contact: Ericsson, Magenta, CATT, ZTE, Huawei) SA5 LS in Rel-19 NR\_AIML\_NGRAN\_enh-Core To:RAN3 Cc:RAN2

R2-2506779 Summary of open issue email discussion on 38.305 CR for AIML Positioning CATT discussion Rel-19 NR\_AIML\_air-Core

R2-2506780 Corrections on 38.305 CR for AIML Positioning CATT CR Rel-19 38.305 18.6.0 0197 - F NR\_AIML\_air-Core

R2-2506958 Report of TS38300 Open Issues on AI for Air Interface Feature vivo(Rapporteur) report NR\_AIML\_air-Core

R2-2506959 Introduction of AI for Air interface feature in 38300 vivo(Rapporteur) draftCR Rel-19 38.300 19.0.0 NR\_AIML\_air-Core Withdrawn

R2-2506995 Introduction of AI for Air interface feature in 38300 vivo(Rapporteur) CR Rel-18 38.300 18.7.0 1006 2 B NR\_AIML\_air-Core R2-2506498

=> Revised in R2-2507688

R2-2507688 Introduction of AI for Air interface feature in 38300 vivo(Rapporteur) CR Rel-18 38.300 18.7.0 1006 3 B NR\_AIML\_air-Core

R2-2507134 LS on input data from UE for case 3b (S2-2507583; contact: Samsung) SA2 LS in Rel-19 NR\_AIML\_air, NR\_AIML\_air-Core, AIML\_CN To:RAN2 Cc:CT1, CT4

R2-2507148 [Draft] Reply LS on input data from UE for Case 3b Samsung LS out Rel-19 NR\_AIML\_air-Core To:SA2 Cc:CT1, CT4

R2-2507411 Remaining LPP open issues for feature "AI/ML for NR air interface" Qualcomm Incorporated (Rapporteur) discussion Late

R2-2507412 Corrections to DL AI/ML Positioning Qualcomm Incorporated (Rapporteur) draftCR Rel-19 37.355 19.0.0 F NR\_AIML\_air-Core Late

R2-2507420 Correction on AI for Air Interface Feature in TS 37320 Huawei, HiSilicon CR Rel-19 37.320 19.0.0 0146 - F NR\_AIML\_air-Core

R2-2507421 TS 37320 Open Issues for Air Interface Feature Huawei, HiSilicon other Rel-19 NR\_AIML\_air-Core

R2-2507588 Corrections on AI air UE capability Xiaomi, Oppo draftCR Rel-19 38.306 19.0.0 F NR\_AIML\_air

R2-2507589 Report of open issue in [POST131][043][AI PHY] UE capabilities (Xiaomi) Xiaomi discussion Rel-19

R2-2507680 Corrections to AIML for NR air interface Ericsson CR Rel-19 38.331 19.0.0 5561 - F NR\_AIML\_air-Core

R2-2507681 AIML Comments file Ericsson report

R2-2507682 AIML Review file Ericsson report

### 8.1.2 Functionality based LCM

Corrections only. Companies should follow guidance from rapporteurs.

#### 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.

No contributions expected for this meeting.

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

Corrections only. Companies should follow guidance from rapporteurs.

R2-2506764 [O301] Missing purpose for UE side data collection request OPPO discussion Rel-19 NR\_AIML\_air-Core

R2-2506777 Discussion on RIL[C083][C084] CATT, CBN discussion Rel-19 NR\_AIML\_air-Core

R2-2506778 Discussion on RIL[N021][H003] CATT discussion Rel-19 NR\_AIML\_air-Core

R2-2506927 [B206][O300] Incomplete applicability info during handover Lenovo discussion Rel-19 Late

R2-2506960 Discussion on RILs [E040], [E041], [N028], [E042], [H002], [X003], [Z001,Z002] vivo discussion NR\_AIML\_air-Core

R2-2507090 Remaining issues in LCM for BM use case Samsung discussion Rel-19 NR\_AIML\_air-Core

R2-2507117 Discussion on RIL issues related to predictionConfiguration-r19 (A105/N021/H003) Apple, ZTE Corporation, Sanechips discussion Rel-19 NR\_AIML\_air-Core

R2-2507118 Open issues on LCM of AI/ML based beam management (including E041/E042/X003/H010/E040/Z001/Z002) Apple discussion Rel-19 NR\_AIML\_air-Core

R2-2507181 On Simplifying Procedures and ASN.1 for AI/ML Nokia discussion Rel-19 NR\_AIML\_air-Core

R2-2507295 On the remaining issue and RILs Z001 Z002 for LCM of UE side model ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

R2-2507338 Discussion on RILs [E041][E042][Z001][Z002][H010][Z007][E040][N021][H003][B204][X004] for AIML LG Electronics Inc. discussion Rel-19

R2-2507345 Discussion on RIL issues related to [Z001/Z002] [E042] [X003] LCM for UE-sided Model for Beam Management SHARP discussion

R2-2507475 Discussion on Applicability-related RILs: [E041], [E042], [C083], [C084], [Z001], [Z002], and [H010] InterDigital discussion Rel-19 NR\_AIML\_air-Core

R2-2507476 Discussion on UE-sided data collection-related RILs: [E040], [X003], [X004] InterDigital discussion Rel-19 NR\_AIML\_air-Core

R2-2507534 Discussion on open issues for LCM ASUSTeK discussion Rel-19 NR\_AIML\_air-Core

R2-2507624 Issues related to AI for Air interface feature in TS 38.300 Nokia discussion Rel-19 NR\_AIML\_air-Core

R2-2507652 [X003][O301/S045/N114][X004][E040]Discussion on open issues of UE data collection Xiaomi discussion

R2-2507654 Discussion on open issues of AIML LCM [E041, H003/A105/S047, E042, Z001/Z002, B206] Xiaomi discussion Rel-19 NR\_AIML\_air

R2-2507670 Corrections for CSI report configuration (H003, N021, S047, A105) Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

R2-2507673 Remaining issues (including H003, H008, H010) in LCM for UE-sided model for BM/CSI prediction Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

R2-2507678 Discussion on RILs for LCM for UE-side models for beam management (E040, E041, E042, B206, O300, O301, S045, N114) Ericsson discussion

#### 8.1.2.3 LCM for Positioning use case

Corrections only. Companies should follow guidance from rapporteurs.

R2-2507088 Discussion on remaining issue for AI positioning ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core Late

R2-2507460 Open Issues LCM for Positioning Ericsson discussion Rel-19 NR\_AIML\_air-Core Late

### 8.1.3 NW side data collection

Corrections only. Companies should follow guidance from rapporteurs.

R2-2506928 [H002][H007] Handling of logged data in UE Lenovo discussion Rel-19

R2-2506961 Discussion on RILs [Z004,J008,J009], [H007], [Z005,H009], [Z007] vivo discussion NR\_AIML\_air-Core

R2-2507091 Discussion on NW side data collection Samsung discussion Rel-19 NR\_AIML\_air-Core

R2-2507119 Open issues on NW-side data collection (including H007/Z005/H009/H002/Z007) Apple discussion Rel-19 NR\_AIML\_air-Core

R2-2507163 [J008][J009] Logged data reporting for NW-side data collection Sharp discussion Rel-19 Late

R2-2507296 On RIL Z010, Z011, Z004/J009, Z005/H009, Z007, J008, H007 and RAN centric NW side data collection ZTE Corporation discussion Rel-19 NR\_AIML\_air-Core

R2-2507298 Discussion on RILs related to NW side data collection Nokia discussion Rel-19 NR\_AIML\_air-Core Late

R2-2507337 Discussion on RILs [J008][J009][N028][H002][H007][Z004][Z005][H009][L002] for AIML LG Electronics Inc. discussion Rel-19

R2-2507431 Remaining issues for NW side data collection (RILs: N028, H002, H007, Z005, H009) InterDigital Pennsylvania discussion Rel-19 NR\_AIML\_air\_Ph2-Core

R2-2507653 [Z004][H002][H007][Z007]Discussion on open issues of NW data collection Xiaomi discussion

R2-2507669 RRC corrections for NW-sided data collection [H002], [H007], [H009/Z005] Huawei, HiSilicon discussion Rel-19 NR\_AIML\_air-Core

R2-2507679 Discussion on RILs for NW-side data collection (Z004, J008, J009, S044, H007, H002) Ericsson discussion

## 8.2 Ambient IoT

(Ambient\_IoT\_solutions, leading WG: RAN1; REL-19; WID: RP-250796)

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

### 8.2.1 Organizational

LS, Rapporteur input, including workplan, etc.

Including outcome of [POST130][027][AIoT] MAC Running CR (Huawei) and [POST130][028][AIoT] 38.300 Running CR (CMCC)

R2-2506704 LS on delayed A-IoT D2R NAS messages (C1-255165; contact: Huawei) CT1 LS in Rel-19 Ambient\_IoT\_Solutions, AmbientIoT-CT To:RAN2 Cc:SA2

R2-2506708 LS on the maximum supported AIoT NAS container length (C1-255679; contact: Lenovo) CT1 LS in Rel-19 AmbientIoT-CT To:RAN2 Cc:RAN1, RAN3

R2-2506709 LS on Structure updates of AIoT Identifiers (C4-253575; contact: CICT) CT4 LS in Rel-19 AmbientIoT-CT To:SA2, RAN3 Cc:SA3, RAN2

R2-2506712 LS on Ambient IoT Stage-2 TP (R1-2506523; contact: CMCC) RAN1 LS in Rel-19 Ambient\_IoT\_Solutions To:RAN2

R2-2506748 Reply LS to Reply LS on the removal of service type information (S2-2507689; contact: LGE) SA2 LS in Rel-19 AmbientIoT-ARC, Ambient\_IoT\_Solutions To:RAN3, RAN2 Cc:RAN1

R2-2506750 LS on AIoT Device Permanent ID Length (S2-2507793; contact: Huawei) SA2 LS in Rel-19 AmbientIoT-ARC To:RAN2 Cc:RAN1, CT4, SA3

R2-2506753 Reply LS on paging ID length (S3-252933; contact: CATT) SA3 LS in Rel-19 AmbientIoT-SEC To:SA2, RAN2, CT4 Cc:RAN3

R2-2506920 [Draft] Reply LS on the maximum supported AIoT NAS container length Lenovo LS out Rel-19 Ambient\_IoT\_solutions To:CT1, RAN3

R2-2507029 A-IoT MAC rapporteur CR Huawei, HiSilcon CR Rel-19 38.391 19.0.0 0001 - F Ambient\_IoT\_Solutions-Core

R2-2507030 Summary of A-IoT MAC open issues (outcome of [POST131][021][AIoT] MAC spec) Huawei, HiSilicon report Rel-19

### 8.2.2 A-IoT

Corrections only. Companies should follow guidance from rapporteurs.

R2-2506765 Discussion on segmentation order issue Transsion Holdings discussion Rel-19

R2-2506839 Ambient-IoT Remaining Issues NEC discussion Rel-19 Ambient\_IoT\_Solutions

R2-2506902 Issue 1-7 Security parameter in A-IoT paging CMCC, China Unicom, China Telecom, Huawei, HiSilicon, ZTE Corporation, Sanechips, Nokia, Fujitsu, Interdigital, Xiaomi, vivo, LGE, Panasonic, Transsion Holdings, Quanray Electronics, ETRI discussion Rel-19 Ambient\_IoT\_Solutions

R2-2506915 Discussion on A-IoT remaining issues Spreadtrum, UNISOC discussion Rel-19

R2-2506921 Discussion on max NAS message size Lenovo discussion Rel-19

R2-2506929 Discussion on remaining open issues on A-IOT OPPO discussion Rel-19 Ambient\_IoT\_Solutions

R2-2506942 Discussion on remaining issues for ambient IoT CATT discussion Rel-19 Ambient\_IoT\_Solutions

R2-2506962 Remaining open issues on R19 Ambient IoT vivo discussion FS\_Ambient\_IoT\_solutions

R2-2506986 Remaining open issues for Rel-19 A-IoT Xiaomi discussion Rel-19 Ambient\_IoT\_Solutions Revised

R2-2507031 A-IoT remaining issues related to other WGs Huawei, HiSilicon discussion Rel-19

R2-2507101 Discussion on remaining open issues of A-IoT Apple discussion Rel-19 Ambient\_IoT\_Solutions

R2-2507197 Views on remaining issue 3-7 Ofinno discussion Rel-19 Ambient\_IoT\_Solutions

R2-2507207 Discussions on remaining issues for Rel-19 AIoT Futurewei discussion Rel-19 38.391 Ambient\_IoT\_Solutions-Core

R2-2507210 Discussion on open issues for AIoT LG Electronics Inc. discussion Rel-19 FS\_Ambient\_IoT\_solutions

R2-2507256 Ambient IoT open issues Nokia discussion Ambient\_IoT\_Solutions

R2-2507258 Remaining issues of Ambient IoT Qualcomm Incorporated discussion Ambient\_IoT\_Solutions-Core

R2-2507347 Remaining issues in R19 Ambient-IoT ZTE Corporation, Sanechips discussion Rel-19 Ambient\_IoT\_Solutions

R2-2507426 Open issues for TS 38.391 Ericsson discussion Rel-19 Ambient\_IoT\_Solutions

R2-2507453 Handling of NAS Layer Errors with MDI Field InterDigital France R&D, SAS discussion Rel-19

R2-2507535 Discussion on Ambient IoT open issues ASUSTeK discussion Rel-19 Ambient\_IoT\_Solutions

R2-2507552 On remaining issues for AIoT MAC NTT DOCOMO, INC. discussion Rel-19

R2-2507557 Remaining open issues for Rel-19 A-IoT Xiaomi discussion Rel-19 Ambient\_IoT\_Solutions R2-2506986

R2-2507558 Discussion on the remaining issues on A-IoT Samsung discussion Rel-19 Ambient\_IoT\_Solutions-Core

## 8.4 Low-power wake-up signal and receiver for NR (LP-WUS/WUR)

(NR\_LPWUS-Core; leading WG: RAN1; REL-19; WID RP-251200)

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

### 8.4.1 Organizational

LS, Rapporteur input, etc.

R2-2506727 LS on allocation of CN assigned subgroup ID for LP-WUS (R3-255941; contact: NTT DOCOMO) RAN3 LS in Rel-19 NR\_LPWUS-Core To:SA2 Cc:RAN2, RAN1

R2-2506861 Corrections on LP-WUS in TS 38.304 CATT CR Rel-19 38.304 18.4.0 0447 - F NR\_LPWUS-Core

R2-2506862 List of open issues for LP-WUS 38.304 CR CATT discussion Rel-19 NR\_LPWUS-Core

R2-2507007 Miscellaneous corrections on RRC for Rel-19 LP-WUS WUR vivo (Rapporteur) CR Rel-19 38.331 19.0.0 5503 - F NR\_LPWUS-Core

R2-2507008 LPWUS RILs resolutions (based on review file v17) vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507104 Open issues on Rel-19 LPWUS 38.321 CR Apple(Rapporteur) discussion Rel-19

R2-2507156 List of open issues for Rel-19 LP-WUS UE capabilities Huawei, HiSilicon (Rapporteur) discussion Rel-19

R2-2507369 Open issue of LP-WUS in TS37.340 ZTE Corporation, Sanechips report Rel-19 NR\_LPWUS-Core

R2-2507370 Correction on LP-WUS in TS 37.340 ZTE Corporation, Sanechips, Xiaomi CR Rel-19 37.340 19.0.0 0424 - F NR\_LPWUS-Core

R2-2507639 Miscellaneous corrections for LP-WUS Ericsson CR Rel-19 38.300 19.0.0 1046 - F NR\_LPWUS-Core Revised

R2-2507640 Miscellaneous corrections for LP-WUS Ericsson CR Rel-19 38.300 19.0.0 1046 1 F NR\_LPWUS-Core R2-2507639

### 8.4.2 RRC issues

Issues related to RILs, other remaining RRC issues

R2-2506863 [E009][H050][V001][C031][H055]Discussion on RRC open issues CATT discussion Rel-19 NR\_LPWUS-Core

R2-2506864 [C026] Co-existence of LP-WUS with paging adaptation CATT discussion Rel-19 NR\_LPWUS-Core

R2-2506953 Discussion on LP-WUS RRC remaining issue NEC discussion Rel-19 NR\_LPWUS-Core

R2-2507009 [V001-V006, C026, H053/054, E036] Discussion on RRC open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507041 Discussion on [RIL] O701 Whether UE can report an empty preference time offset OPPO discussion Rel-19 NR\_LPWUS-Core

R2-2507082 Remaining issues on LP-WUS paging monitoring and proposed TP to 3331,304 Xiaomi Communications, Huawei, HiSilicon, ZTE Corporation, Sanechips, Qualcomm Incorporated, Ericsson, Apple, Lenovo discussion

R2-2507155 Discussion on open issues 38304-1 and 38304-3 for R19 LP-WUS Huawei, HiSilicon discussion Rel-19

R2-2507236 Discussion about LP-WUS RILs H050, E043, C026, V001, Z052 and V002 ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

R2-2507331 [H050][H053][H054][H055] Discussion on LP-WUS RILs Huawei, HiSilicon discussion Rel-19 Late

R2-2507344 Discussion about LP-WUS RILs E034, E035, E037, E043, V002, H050, H053, H054 Nokia discussion Rel-19 NR\_LPWUS-Core

R2-2507350 Discussion on RIL in LP-WUS RRC Qualcomm Incorporated discussion NR\_LPWUS-Core

R2-2507504 RRC issues on LP-WUS InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

R2-2507626 LP-WUS issues (E035, E036, E037, E043, 38304-2, C026) Ericsson discussion Rel-19 NR\_LPWUS-Core Late

### 8.4.3 MAC issues

Remaining MAC issues

R2-2506865 Discussion on MAC open issues CATT discussion Rel-19 NR\_LPWUS-Core

R2-2506923 Remaining MAC open issues for LP-WUS Lenovo discussion Rel-19

R2-2506954 Discussion on LP-WUS MAC remaining issue NEC discussion Rel-19 NR\_LPWUS-Core

R2-2506981 Discussing on remaining MAC open issues Xiaomi discussion Rel-19 NR\_LPWUS-Core

R2-2507010 Discussion on MAC open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507042 Discussion on the remaining issue on LP-WUS in RRC\_CONNECTED OPPO discussion Rel-19 NR\_LPWUS-Core

R2-2507105 Remaining issues of LP-WUS in RRC\_CONNECTED Apple discussion Rel-19

R2-2507174 MAC open issues Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_LPWUS-Core

R2-2507308 LP-WUS options description InterDigital discussion Rel-19 NR\_LPWUS-Core

R2-2507351 Remaining issues in LP-WUS MAC Qualcomm Incorporated discussion NR\_LPWUS-Core

R2-2507530 LP-WUS MAC Issues ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

R2-2507627 LP-WUS MAC issue (Eri-001 and Proposal 1 in #213) Ericsson discussion Rel-19 NR\_LPWUS-Core

### 8.4.4 Other issues

Issues related to IDLE/INACTIVE, Changes to Stage 2, UE capabilities, and other remaining issues if not covered by the previous agenda items

R2-2506965 [LPWUS-Cap-OI-1] Discussion on open issue for LP-WUS UE capabilities Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

R2-2507011 Discussion on other open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507043 Discussion on the remaining issues on RRM measurement OPPO discussion Rel-19 NR\_LPWUS-Core

R2-2507083 Remaining issues on RRM relaxation and proposed TP to TS 38.304 Xiaomi Communications discussion

R2-2507253 Correction to R19 LP-WUS UE Capabilities Huawei, HiSilicon draftCR Rel-19 38.306 19.0.0 NR\_LPWUS-Core

R2-2507352 Paging monitoring in LP-WUS CONNECTED state Qualcomm Incorporated discussion NR\_LPWUS-Core

R2-2507505 Open issues on LP-WUS InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

R2-2507531 LP-WUS Other Issues ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

R2-2507618 Discussion on open issues in 38.304 for LP-WUS Nokia discussion Rel-19 NR\_LPWUS-Core

R2-2507628 LP-WUS critical issues (E008, 38304-1 and -3) Ericsson discussion Rel-19 NR\_LPWUS-Core Late

## 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: 0 TU

Tdoc Limitation: 2 tdocs

### 8.5.1 Organizational

Incoming LS, CR rapporteurs’ inputs, etc.

R2-2506719 Reply LS on RA-RNTI for PRACH adaptation (R1-2506587; contact: Ericsson) RAN1 LS in Rel-19 Netw\_Energy\_NR\_enh To:RAN2

R2-2507178 Report of [POST131][111][NES] 38.321 CR InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507179 Miscellaneous MAC corrections for R19 NES InterDigital CR Rel-19 38.321 19.0.0 2127 - F Netw\_Energy\_NR\_enh-Core

R2-2507272 Report of email discussion [POST131][108][NES] stage-2 CR Huawei, HiSilicon report Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507273 Network Energy Savings Enhancements miscellaneous stage-2 corrections Huawei, HiSilicon CR Rel-19 38.300 19.0.0 1042 - F Netw\_Energy\_NR\_enh-Core

R2-2507367 Open issues on Rel-19 NES UE capability ZTE Corporation, Sanechips report Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507368 Correction on Rel-19 NES UE capability ZTE Corporation, Sanechips, Ericsson CR Rel-19 38.306 19.0.0 1362 - F Netw\_Energy\_NR\_enh-Core

R2-2507660 NES Comments File Ericsson report Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507661 NES Review File Ericsson report Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507662 Conclusions for NES RILs Ericsson report Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507663 Corrections for Network Energy Saving Ericsson CR Rel-19 38.331 19.0.0 5559 - F Netw\_Energy\_NR\_enh-Core

### 8.5.2 Control plane

Essential RRC corrections (including the issues related to RILs), 38.304, stage-2, and UE capability corrections. Note stage-2 corrections may be handled with lower priority.

R2-2506817 [C184]Impact of od-ssb-PositionsInBurst on ssb-ToMeasure CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2506848 Left Issues on On-Demand SSB and SSB adaptation (X200, L201, L202, O006) OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core Late

R2-2506849 Remaining issue on Redcap UE for OD-SIB1 and Paging Adaptation OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2506879 handling of RRC open issues Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2506936 [H126][L201][X200][A103][H128][H129][X201][H131][H130][H127] Control plane issues Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2506966 Remaining CP open issues of NES vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507050 RIL X200, X201, X202, X203 and remaining open issues for NES Xiaomi discussion Netw\_Energy\_NR\_enh-Core

R2-2507115 Control plane open issues on Rel-19 NES (including RIL E204/E205/A103/X200/O005) Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507162 [J001][J002][J005] Discussion on OD-SSB and SSB Adaption Sharp discussion Rel-19 Late

R2-2507326 [E023,…][L201][O005] Discussion on RRC open issues LG Electronics France discussion Rel-19 38.331 Netw\_Energy\_NR\_enh-Core Late

R2-2507334 Discussion on RILS E023, E024, E025, X201, O006, J002, H128, H129, J005, Z101, Z102, V503 Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core Late

R2-2507465 Discussion on remaining RRC issues Qualcomm Incorporated discussion

R2-2507509 User Plane issues for NES Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh

R2-2507614 Control Plane issues [N001[N002][X200] [N003] Nokia, Nokia Shanghai Bell discussion Rel-19 Netw\_Energy\_NR\_enh-Core Late

### 8.5.3 User plane

Essential MAC corrections.

R2-2506818 Discussion on MAC open issues CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2506878 handling of MAC open issues Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2506967 Remaining UP open issues of NES vivo discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507051 Remaining MAC open issues for NES Xiaomi discussion Netw\_Energy\_NR\_enh-Core

R2-2507116 User plane open issues on Rel-19 NES Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507140 Remaining MAC open issues on common signal/channel adaptation Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507161 [MAC issue 2] Discussion on OD-SIB1 for RedCap UE Sharp discussion Rel-19

R2-2507177 [MAC issue 1] RA-RNTI for PRACH adaptation InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507251 Discussion on NES user plane open issues LG Electronics Inc. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507271 Discussion on remaining User Plane issues of NES Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2507464 Discussion on remaining MAC issues Qualcomm Incorporated discussion

R2-2507536 Discussion on RA-RNTI for PRACH adaptation ASUSTeK discussion Rel-19 Netw\_Energy\_NR\_enh-Core

## 8.6 Mobility Enhancement Ph4

(NR\_Mob\_Ph4-Core; leading WG: RAN2; REL-19; WID: [RP-252111](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252111.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 8.6.1 Organizational

Incoming LS, CR rapporteurs’ inputs, etc.

R2-2506740 LS on definition of CSI-RS based L1 intra/inter-frequency measurement (R4-2512334; contact: Apple) RAN4 LS in Rel-19 NR\_Mob\_Ph4-Core To:RAN2 Cc:RAN1

R2-2506816 Report of [POST131][115][MOB] Open issues on UE capability (CATT) CATT discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507012 Miscellaneous corrections on MAC for Mob Ph4 vivo (Rapporteur) CR Rel-19 38.321 19.0.0 2123 - F NR\_Mob\_Ph4-Core

R2-2507013 List of MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507170 38.300 open issue list for R19 mobility Apple discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507401 Mobility Review file Ericsson report Rel-19 NR\_Mob\_Ph4-Core

R2-2507402 Mobility Comments file Ericsson report Rel-19 NR\_Mob\_Ph4-Core

=> Revised in R2-2507658

R2-2507658 Mobility Comments file Ericsson report Rel-19 NR\_Mob\_Ph4-Core

R2-2507403 Mobility RILs conclusions Ericsson report Rel-19 NR\_Mob\_Ph4-Core

R2-2507404 Corrections on RRC for mobility enhancements Phase 4 Ericsson CR Rel-19 38.331 19.0.0 5529 - F NR\_Mob\_Ph4-Core

### 8.6.2 Control plane

Essential RRC corrections (including the issues related to RILs), stage-2, and UE capability corrections. Note stage-2 corrections may be handled with lower priority.

R2-2506814 [M202] control plane issues for LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2506924 [B110] [B111] [M202] Maintenance of CSI resource and CSI report configuration after cell switch Lenovo discussion Rel-19 Late

R2-2507015 Discussion on RRC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507093 RRC open issues for R19 mobility OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507121 Miscellaneous corrections for stage-2 in Rel-19 Mobility Enhancements Apple Inc CR Rel-19 38.300 19.0.0 1040 - F NR\_Mob\_Ph4-Core

R2-2507238 [S036][S037]Discussion on Mobility RILs Samsung discussion Late

R2-2507378 RRC issues for LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core Late

R2-2507405 Issue with handling of radio bearers during the LTM cell switch [E005] Ericsson, MediaTek Inc., Samsung, Huawei, HiSilicon, ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

=> Revised in R2-2507659

R2-2507659 Issue with handling of radio bearers during the LTM cell switch [E005] Ericsson, MediaTek Inc., Samsung, NEC, Huawei, HiSilicon, ZTE Corporation, Sanechips, Nokia discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507434 [X153] [X152] Discussion on RILs X153 and X152 Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507436 Remaining Open Issues for RRC Nokia discussion

R2-2507528 Discussion on RIL issue [Z155][Z157] ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507550 Remaining CP issues in R19 mobility MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507676 Discussion on NES RILs O004, O005, H127, H130, and more Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

### 8.6.3 User plane

Essential MAC corrections.

R2-2506815 Discussion on SP CSI-RS and CSI-IM for early CSI acquisition CATT discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507014 Discussion on MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507078 Handling of MAC open issues on C(LTM) Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507094 MAC open issues for R19 mobility OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507190 [MAC-F02] Threshold for beam selection Ofinno discussion Rel-19 NR\_Mob\_Ph4

R2-2507304 Collision between PUSCH for early CSI and measurement gap NEC discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507379 MAC issues for LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507435 Discussion on mobility MAC open issues Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507457 Discussion on remaining User Plane issues Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507462 On the open MAC issues for Rel-19 LTM Nokia discussion Rel-19 NR\_Mob\_Ph4

R2-2507485 LTM MAC remaining issues Qualcomm Incorporated discussion

R2-2507529 Discussion on MAC open issues ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507537 Discussion on MAC open issues for CLTM ASUSTeK discussion Rel-19 38.321 NR\_Mob\_Ph4-Core

R2-2507551 Remaining MAC issues in R19 mobility MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2507573 User Plane issues for CLTM and event triggered L1 MR Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

## 8.7 XR Enhancements Ph3

(NR\_XR\_Ph3-Core; leading WG: RAN2; REL-19; WID: RP-250107)

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

### 8.7.1 Organizational

LS, rapporteur input, open issues lists etc.

R2-2506810 Corrections for XR enhancements Qualcomm France CR Rel-19 38.321 18.6.0 2122 - D NR\_XR\_Ph3

R2-2507016 Miscellaneous corrections on RLC for R19 XR vivo CR Rel-19 38.322 19.0.0 0066 - F NR\_XR\_Ph3-Core

R2-2507052 R19 XR RRC comment file Huawei, HiSilicon discussion NR\_XR\_Ph3-Core Late

R2-2507053 R19 XR RRC review file Huawei, HiSilicon discussion NR\_XR\_Ph3-Core Late

R2-2507054 Correction to RRC spec for R19 XR Huawei, HiSilicon CR Rel-19 38.331 19.0.0 5504 - F NR\_XR\_Ph3-Core Late

R2-2507130 PDCP open issues for XR LG Electronics Inc. (Rapporteur) discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507245 Offline 504 on XR Stage 2 Open Issues Nokia (Rapporteur) discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507430 Summary of [POST131][508][XR] Discussion on XR MAC open issues Qualcomm France discussion

### 8.7.2 RRC corrections

Corrections to TS 38.331 which require Tdoc submission as per RIL list.

R2-2506840 Discussion on RRC for XR CATT,CBN discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507018 [V050, V051] Discussion on RRC open issues for R19 XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507160 Views on RIL050 and RIL051 Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507300 XR RRC Corrections ZTE Corporation, Sanechips discussion

R2-2507470 N091, S038 Ericsson discussion Rel-19

R2-2507510 RIL N091 and S038 on UAI for measurement gap skipping Nokia, Nokia Shanghai Bell, Huawei discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507629 RRC Corrections for XR Samsung discussion Rel-19 Late

### 8.7.3 User plane corrections

Corrections to 38.321, 38.322 and 38.323 for all features.

R2-2506841 Leftover Issue on User Plane CATT discussion Rel-19 NR\_XR\_Ph3-Core

R2-2506926 Discussion on avoiding unnecessary retransmissions Lenovo discussion Rel-19

R2-2506931 Discussion on remaining issues for RLC Huawei, HiSilicon discussion Rel-19 NR\_XR\_Ph3-Core Withdrawn

R2-2506964 On the definition of non-delay-reporting PDCP SDU Fujitsu discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507019 Discussion on MAC open issues on rate control for R19 XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507020 Discussion on RLC open issues for R19 XR vivo discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507056 Discussion on remaining issues for RLC for R19 XR Huawei, HiSilicon discussion NR\_XR\_Ph3-Core

R2-2507057 Discussion on remaining issues for MAC for R19 XR Huawei, HiSilicon discussion NR\_XR\_Ph3-Core

R2-2507058 Discussion on non-delay-reporting PDCP SDU definition Huawei, HiSilicon discussion NR\_XR\_Ph3-Core

R2-2507084 Remaining issues on DSR and proposed TP Xiaomi Communications discussion

R2-2507112 Open Issues of RLC CR for Rel-19 XR Apple discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507129 Remaining open issues related to RLC enhancements LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507159 UP Open Issues Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507192 Discussion on XR User Plane Open Issues Sharp discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507279 Remaining open issues for DSR LG Electronics Inc. discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507299 XR RLC Issues ZTE Corporation, Sanechips discussion

R2-2507301 XR Scheduling enhancement open issues ZTE Corporation, Sanechips discussion

R2-2507305 XR user plane corrections NEC discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507309 Remaining MAC open issues InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507310 Remaining RLC open issues on avoiding unnecessary re-transmissions InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507311 Remaining RLC open issue on timely re-transmissions InterDigital discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507315 Discussion on open issues for RLC and PDCP Samsung discussion Rel-19

R2-2507342 Discussion on PDCP open issues OPPO discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507343 Discussion on RLC open issues OPPO discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507471 RLC-E01, RLC-X01 Ericsson discussion Rel-19

R2-2507472 H001, N001 Ericsson discussion Rel-19

R2-2507516 Discussion on open issues of XR RLC AM enhancements Xiaomi discussion Rel-19 NR\_XR\_Ph3-Core

R2-2507532 User plane corrections for XR Enhancements Ph3 NTT DOCOMO INC.. discussion Rel-19

R2-2507632 Outstanding LCP issues and related TPs Samsung discussion

### 8.7.4 Other corrections

Including corrections to stage-2, UE capabilities etc.

R2-2506842 Discussion on UE Capabilities for XR CATT discussion Rel-19 NR\_XR\_Ph3-Core

## 8.8 NTN for NR Ph3

(NR\_NTN\_Ph3-Core; leading WG: RAN2; REL-19; WID: [RP-251954](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-251954.zip) )

LTE\_TN\_NR\_NTN\_mob, leading WG: RAN2, Rel-19 WID: [RP-251974](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-251974.zip) )

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

### 8.8.1 Organizational

LS, Rapporteur input, including open issues lists, etc.

Rapporteur inputs do not count towards the tdoc limitation.

Including the lists of open issues, if any, raised in the following email discussions:

[Post131][301][R19 NR NTN] Stage2 CR (Thales)

[Post131][302][R19 NR NTN] RRC CR (Ericsson)

[Post131][303][R19 NR NTN] 38.304 CR (ZTE)

[Post131][304][R19 NR NTN] capability CR (Apple)

[Post131][315][R19 NR NTN] MAC CR (Interdigital)

[Post131][316][LTE NR NTN mob] Stage2 CR (Samsung)

[Post131][317][LTE NR NTN mob] RRC CR (CATT)

[Post131][318][LTE NR NTN mob] capability CR (vivo)

R2-2506869 Corrections on LTE TN to NR NTN IDLE mode mobility in TS 38.331 CATT CR Rel-19 36.331 18.6.0 5157 - F LTE\_TN\_NR\_NTN\_mob

R2-2506870 RIL status on LTE TN to NR NTN mobility CATT discussion Rel-19 LTE\_TN\_NR\_NTN\_mob

R2-2507122 Report of [Post131][304][R19 NR NTN] Open issues for capability (Apple) Apple discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507521 Open issues on NR NTN 38.304 ZTE Corporation, Sanechips report Rel-19 NR\_NTN\_Ph3-Core

R2-2507522 Correction on broadcast service in NTN ZTE Corporation, Sanechips CR Rel-19 38.304 19.0.0 0448 - F NR\_NTN\_Ph3-Core

R2-2507648 Report of [Post131][301][R19 NR NTN] Open issues for Stage2 (Thales) THALES discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507649 Miscellaneous Stage 2 corrections for NR NTN phase 3 THALES (Rapporteur) CR Rel-19 38.300 19.0.0 1047 - F NR\_NTN\_Ph3-Core

R2-2507692 Initial corrections to NR NTN Phase 3 Ericsson CR Rel-19 38.331 19.0.0 5562 - F NR\_NTN\_Ph3-Core

R2-2507693 ASN.1 comment file and RIL assessment for NR NTN Rel-19 Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507694 ASN.1 review file for NR NTN Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.2 RRC corrections

Corrections to TS 38.331.

R2-2506807 Discussion on RIL X250 X251 V205 for DL coverage enhancement Xiaomi, ZTE, CSCN, Samsung discussion Rel-19

R2-2506833 Discussion on RIL V206 vivo discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2506834 Discussion on RILs [V200][S024][S025][H250][V208][X250] regarding SMTC Enhancement vivo discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2506866 [C006][C008][C009]Corrections on the smtc5list CATT discussion Rel-19 NR\_NTN\_Ph3-Core Late

R2-2506867 [C005][S024][S025]Discussion on the mechanism of UE reporting the N closest reference location CATT discussion Rel-19 NR\_NTN\_Ph3-Core Late

R2-2506868 [C003] Clarification of how the UE uses the service area information in SIB and USD CATT discussion Rel-19 NR\_NTN\_Ph3-Core Late

R2-2506907 Remaining issues on broadcast service for NR NTN CMCC discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2506935 [H250][H251][H252][H253] Discussion on remaining RRC issues Huawei, HiSilicon discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2506989 Discussion on the remaining issue of Downlink Coverage Enhancements CSCN discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507044 Discussion on [RIL]O710 geo-fencing for ETWS OPPO discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507123 Open issues on NR NTN (A200/V204) Apple discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507151 RRC corrections for Rel-19 NR NTN DL-CE DENSO CORPORATION discussion NR\_NTN\_Ph3-Core

R2-2507329 Downlink Coverage Enhancements for NTN for NR Phase3 TOYOTA Info Technology Center discussion Rel-19 38.331 NR\_NTN\_Ph3-Core

R2-2507380 Remaining issues for MBS broadcast over NTN Huawei, HiSilicon discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507440 Remaining issues on beam hopping with multiple SMTC offsets [Q200] Qualcomm Incorporated discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507496 RIL S024 S025 C006 Samsung discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507523 RRC corrections related to RILs ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core Late

R2-2507538 Discussion on closest reference location reporting ASUSTeK discussion Rel-19 38.331 NR\_NTN\_Ph3-Core

R2-2507625 Remaining RRC issues for NR NTN Sharp discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507634 Service continuity in MBS NTN Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core R2-2505822

R2-2507664 Discussion on RIL N085, S024, X250, A200 Nokia, Nokia Shanghai Bell discussion

R2-2507675 Discussion on RIL V204-C003-Z253-Z255-V206-V207 for NR NTN Ph3 Xiaomi discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507690 Discussion on various RILs for NR NTN Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507691 [RIL H250] Applicability of SMTC enhancements to inter-frequency Ericsson discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.3 Idle mode corrections

Corrections to TS 38.304.

R2-2506835 Discussion on 304 Open Issue 2 regarding PDCCH Repetition vivo discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507610 Discussion on Paging Search Space monitor for PDCCH repetition Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.4 Other corrections

Corrections to TS 38.300, TS 38.306 and TS 38.321.

R2-2507254 Considerations on two SMTC periodicities Nokia, Nokia Shanghai Bell discussion NR\_NTN\_Ph3-Core

R2-2507288 Support for OCC RACH-less Samsung discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507524 UE capability for R19 VSAT UEs ZTE Corporation, Sanechips discussion Rel-19 NR\_NTN\_Ph3-Core

### 8.8.5 LTE to NR NTN mobility corrections

Corrections to all specs for LTE\_TN\_NR\_NTN\_mob.

R2-2507045 Discussion on [RIL] O711 remaining issue on dedicated priority OPPO, Xiaomi discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507285 RRC corrections related to [S905] Samsung discussion Rel-19 LTE\_TN\_NR\_NTN\_mob Late

R2-2507493 Remaining issues on LTE TN to NR NTN mobility Huawei, HiSilicon discussion Rel-19 NR\_NTN\_Ph3-Core

R2-2507525 Clarification on SMTC configuration for redirection ZTE Corporation, Sanechips discussion Rel-19 LTE\_TN\_NR\_NTN\_mob

R2-2507677 Discussion on the RIL X500 (smtc in the CarrierInfoNR-r19) for LTE-NR NTN mobility Xiaomi, Samsung, OPPO, Apple discussion Rel-19 LTE\_TN\_NR\_NTN\_mob-Core

## 8.9 IoT NTN Ph3

(IoT\_NTN\_Ph3-Core; leading WG: RAN2; REL-19; WID: [RP-252504](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252504.zip))

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

### 8.9.1 Organizational

LS, Rapporteur input, including open issues lists, etc.

Rapporteur inputs do not count towards the tdoc limitation.

Including the lists of open issues, if any, raised in the following email discussions:

[Post131][305][R19 IoT NTN] Stage2 CR (Ericsson)

[Post131][306][R19 IoT NTN] RRC CR (Huawei)

[Post131][307][R19 IoT NTN] MAC CR (Mediatek)

[Post131][308][R19 IoT NTN] 36.304 CR (Nokia)

[Post131][309][R19 IoT NTN] capability CR (Qualcomm)

R2-2506717 Reply LS on on CB Msg3 EDT for IoT NTN Ph3 (R1-2506553; contact: MediaTek) RAN1 LS in Rel-19 IoT\_NTN\_Ph3 To:RAN2

R2-2506737 LS on CB-msg3-EDT (R4-2512173; contact: MediaTek) RAN4 LS in Rel-19 IoT\_NTN\_Ph3-Core To:RAN2

R2-2507059 Rapporteur correction on IoT NTN Ph3 Huawei, HiSilicon CR Rel-19 36.331 19.0.0 5160 - F IoT\_NTN\_Ph3-Core Revised

R2-2507060 RIL status on IoT NTN Ph3 Huawei, HiSilicon discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507261 Rapporteur correction on IoT NTN Ph3 Huawei, HiSilicon CR Rel-19 36.331 19.0.0 5160 1 F IoT\_NTN\_Ph3-Core R2-2507059

R2-2507439 Rappoertuer Summary for [Post131][308][R19 IoT NTN] 36.304 CR Nokia , Nokia Shanghai Bells discussion

R2-2507443 Open issues on Rel-19 IoT NTN UE capabilities Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507555 Corrections for CB-MSG3 EDT MediaTek Inc. CR Rel-20 36.321 19.0.0 1599 - F IoT\_NTN\_Ph3-Core

=> Revised in R2-2507656

R2-2507656 Corrections for CB-MSG3 EDT MediaTek Inc. CR Rel-20 36.321 19.0.0 1599 1 F IoT\_NTN\_Ph3-Core

R2-2507561 Remaining MAC open issues in Rel-19 IoT NTN MediaTek Inc. discussion IoT\_NTN\_Ph3-Core

R2-2507563 Miscellaneous Corrections for TS36.304 Nokia CR Rel-19 36.304 19.0.0 0885 - F IoT\_NTN\_Ph3-Core

### 8.9.2 RRC corrections

Corrections to TS 36.331.

R2-2506836 Discussion on RIL V211 vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2506837 Discussion on RIL S901 and RIL V214 vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2506838 Discussion on RIL V215 vivo discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2506872 [C001] Correction on the operation mode of neighbour cells CATT discussion Rel-19 IoT\_NTN\_Ph3-Core Late

R2-2506980 Discussion on remaining RRC open issues on S&F operation Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507046 Discussion on RRC open issues for IoT NTN OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507086 RRC corrections for R19 IoT NTN ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_Ph3-Core Late

R2-2507149 RRC corrections for Rel-19 Store & Forward operation DENSO CORPORATION discussion IoT\_NTN\_Ph3-Core

R2-2507219 Discussion on leftover issues with Store and Forward satellite operation ETRI, Korea University discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507283 Discussions on RILs [V211][C001][V215] Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507284 RRC corrections related to [S900][S901] Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core Late

R2-2507441 Remaining issues on CB-EDT Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507611 Discussion on remaining RILs for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507643 RRC IoT NTN issues Ericsson discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507650 [V211][C001][S901] Discussion on RILs for IoT-NTN Google discussion Rel-19 IoT\_NTN\_Ph3-Core Late

### 8.9.3 MAC corrections

Corrections to TS 36.321.

R2-2506979 Discussion on remaining MAC open issues on CB-Msg3-EDT Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507087 MAC corrections for R19 IoT NTN ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507242 Issues on early termination of CB-Msg3-EDT without RRC message Google discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507286 Various MAC corrections on CB-Msg3-EDT Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507306 CB-EDT relevant MAC open issues NEC discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507642 MAC IoT NTN issues Ericsson discussion Rel-19 IoT\_NTN\_Ph3-Core

### 8.9.4 Other corrections

Corrections to TS 36.300, TS 36.304 and TS 36.306.

R2-2506871 Discussion on relaxation of IDLE mode task based on the S&F monitoring list CATT, Samsung, Thales, Google discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2506873 Correction on the any cell selection state for NB-IoT CATT discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2506944 Discussion on remaining issues on Store&Forward Transsion Holdings discussion Rel-19

R2-2506978 Discussion on remaining 36.304 open issues on S&F operation Xiaomi discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507047 Discussion on other open issues for Rel-19 IoT-NTN OPPO discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507061 Paging enhancement in Store and Forward satellite operation Huawei, HiSilicon, Apple, Nokia, Ericsson, CENC discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507089 Other corrections for R19 IoT NTN ZTE Corporation, Sanechips discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507244 Impact of the S&F mode transition time on AS Google discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507287 Idle mode and capability-related corrections Samsung discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507359 Discussion on S&F Idle Mode Procedures TOYOTA ITC discussion Rel-19 IoT\_NTN\_Ph4-Core

R2-2507437 Remaining Open Issues related to SF Architecture aspects Nokia , Nokia Shanghai Bells discussion

R2-2507438 Remaining Open issues for idle mode operation Nokia , Nokia Shanghai Bells discussion

R2-2507494 UE behaviour related to the Satellite ID list for Store and Forward Huawei, HiSilicon discussion Rel-19 IoT\_NTN\_Ph3-Core

R2-2507635 Remaining open issues for store and forward 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 TU

Tdoc Limitation: 2 tdocs

### 8.10.1 Organizational

LS, CR rapporteur’s miscellaneous non-controversial corrections, etc.

R2-2506728 LS on geographical area scope MDT (R3-255960; contact: CATT) RAN3 LS in Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core To:RAN2, SA5

R2-2506783 Discussion on PLMN ID list for NTN MDT (LS R3-255960) CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2506784 Summary of open issue email discussion on SONMDT UE capabilities CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2506785 Corrections on SONMDT UE Capabilities CATT CR Rel-19 38.306 18.6.0 1353 - F NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507422 Correction on R19 SONMDT in TS 36.331 Huawei, HiSilicon CR Rel-19 36.331 19.0.0 5167 - F NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507423 WI Comments file for TS 36.331 CR for R19 SONMDT Huawei, HiSilicon other Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507424 WI Review file for TS 36.331 CR for R19 SONMDT Huawei, HiSilicon other Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507665 SONMDT Comment file Ericsson report Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507666 SONMDT Review file Ericsson report Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507667 Corrections on RRC for Rel-19 SONMDT features Ericsson CR Rel-19 38.331 19.0.0 5560 - F NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.2 Papers related to RILs

Papers related to identified RILs

R2-2506781 Discussion on MDT RIL[C057] CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2506782 Discussion on SON RIL[C058][C060] CATT discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2506993 Discussion on Rel-19 SONMDT RILs Xiaomi discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507233 Discussion about SON MDT RILs ZTE Corporation, Sanechips discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core Late

R2-2507409 [RIL] N064, N065: RLF, SHR logging when CHO only HO is performed Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507582 [S20][S021]Discussion on SON/MDT RILs Samsung discussion Late

R2-2507668 Addressing RILs for Rel-19 SONMDT features [E015, C057, E051] Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507671 Discussion on R19 SONMDT RIL [H310] Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507672 Discussion on R19 SONMDT RIL [H301] Huawei, HiSilicon discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

### 8.10.3 Other

Critical corrections, if any.

R2-2507234 Correction to NTN MDT CR 37.320 Rel-19 ZTE, Sanechips CR Rel-19 37.320 19.0.0 0145 - F NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507235 Correction to successful LTM cell switch CR 38.300 Rel-19 ZTE, Sanechips CR Rel-19 38.300 19.0.0 1041 - F NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507410 Some MRO related enhancements Nokia discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

R2-2507623 Stage-2 corrections for SONMDT features Ericsson discussion Rel-19 NR\_ENDC\_SON\_MDT\_Ph4-Core

## 8.11 Evolution of NR duplex operation: Sub-band full duplex (SBFD)

(NR\_duplex\_evo-Core; leading WG: RAN1; REL-19; WID: RP-251874)

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 8.11.1 Organizational

Incoming LS, Rapporteur input, etc..

R2-2506718 Reply LS on CSI-RS based CFRA using SBFD RO (R1-2506556; contact: ZTE) RAN1 LS in Rel-19 NR\_duplex\_evo-Core To:RAN2 Cc:RAN4

R2-2506820 Open issues in TS 38.300 on Rel-19 Evolution of NR duplex operation (SBFD) CATT discussion Rel-19 NR\_duplex\_evo-Core

R2-2507080 Correction on MAC spec for R19 SBFD Samsung CR Rel-19 38.321 19.0.0 2126 - F NR\_duplex\_evo-Core

R2-2507158 Summary of Rel-19 SBFD MAC open issue discussions for maintenance Samsung discussion Rel-19 NR\_duplex\_evo-Core

### 8.11.2 MAC issues

Remaing MAC issues

R2-2506822 Remaining Issues on Random Access CATT discussion Rel-19

R2-2506971 Discussion on MAC-2 and MAC-3 for SBFD ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

R2-2507003 Discussion on residual issues for MAC spec Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

R2-2507255 Discussion on the remaining MAC open issues Samsung discussion Rel-19 NR\_duplex\_evo-Core

R2-2507264 Remaining issue of SBFD Qualcomm Incorporated discussion NR\_duplex\_evo-Core

R2-2507266 MAC Issues - SBFD Nokia discussion Rel-19 NR\_duplex\_evo-Core

R2-2507280 Remaining MAC issues on SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507363 MAC remaining issues Ericsson discussion Rel-19 NR\_duplex\_evo-Core

R2-2507517 Discussion on SBFD MAC open issues Xiaomi discussion Rel-19 NR\_duplex\_evo-Core

R2-2507576 Discussion on UE transmit power continuity during RO type switching vivo discussion Rel-19 NR\_duplex\_evo-Core

### 8.11.3 Other aspects

Issues related to RILs, other remaing RRC issues, Changes to Stage 2, UE capabilities, and other remaining issues if not covered by the previous agedam items

R2-2506823 Introduction of Rel-19 Evolution of NR duplex operation (SBFD) CATT CR Rel-19 38.300 18.6.0 1008 2 F NR\_duplex\_evo-Core R2-2506604

R2-2506972 Discussion on RIL [C100][C104][L701] ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

R2-2506999 Corrections to WI SBFD Huawei, HiSilicon (Rapporteur) CR Rel-19 38.331 19.0.0 5499 - F NR\_duplex\_evo-Core

R2-2507000 WI SBFD ASN.1 Review file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_duplex\_evo-Core

R2-2507001 WI SBFD ASN.1 Comments file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_duplex\_evo-Core

R2-2507002 Discussion on issues for Stage-2 spec Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

R2-2507267 Other Aspects of SBFD Nokia discussion Rel-19 NR\_duplex\_evo-Core

R2-2507281 [L701][C100][C104] RIL issues on SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507364 Remaining issue for Stage 2 spec Ericsson discussion Rel-19 NR\_duplex\_evo-Core

R2-2507507 RRC issues on SBFD InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507508 SBFD with CA for stage-2 spec InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507518 Discussion on SBFD RRC open issues Xiaomi discussion Rel-19 NR\_duplex\_evo-Core

R2-2507577 Discussion on RRC Remaining issues for SBFD vivo 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 TU

Tdoc Limitation: 2 tdocs

### 8.12.1 Organizational

LSs and rapporteur input, etc.

R2-2506738 LS on event triggered L1-RSRP reporting if eventDetectionTimeWindowLength-r19 is configured (R4-2512232; contact: Qualcomm) RAN4 LS in Rel-19 NR\_MIMO\_Ph5-Core To:RAN1 Cc:RAN2

R2-2507497 Report of Rel-19 MIMO MAC open issues for maintenance Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507592 Corrections for MIMO Phase 5 Ericsson CR Rel-19 38.331 19.0.0 5548 - F NR\_MIMO\_Ph5-Core Late

R2-2507593 Review file for MIMO ASN.1 review Ericsson discussion Late

R2-2507594 Comment file for MIMO ASN.1 review Ericsson discussion Late

### 8.12.2 MAC issues

Remaining MAC issues

R2-2506847 Discussion on remaining MAC issue China Telecom discussion NR\_MIMO\_Ph5-Core

R2-2506906 Discuss on MIMO MAC issues CMCC discussion Rel-19 NR\_MIMO\_Ph5-Core Withdrawn

R2-2506941 Discussion on remaining MAC issues CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507021 Discussion on MAC open issues for UEI BMR vivo discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507154 [Issue-2] Discussion on MAC remaining issue for MIMO SHARP Corporation discussion NR\_MIMO\_Ph5-Core

R2-2507199 Remaining MAC issues in MIMO Ofinno discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507209 Remaining issues on UEI beam reporting LG Electronics Inc. discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507265 MAC Open issues Nokia discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507377 MAC issues for MIMO Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507498 MAC open issues Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507539 Discussion on MIMO MAC open issues ASUSTeK, Ofinno, Ericsson discussion Rel-19 38.321 NR\_MIMO\_Ph5-Core

R2-2507600 Consideration on the Remaining MAC Issues of UEIBM ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

### 8.12.3Others

Issues related to RILs, other remaining RRC issues, Changes to Stage 2, and other issues if not covered by the previous agenda items

R2-2506852 Clarification on the coexistence between LTM or CLTM and UL-only TRP OPPO discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507376 RRC issues for MIMO Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core Late

R2-2507499 RIL S001 H403 Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507540 Discussion on RIL [K103] ASUSTeK discussion Rel-19 38.331 NR\_MIMO\_Ph5-Core

R2-2507549 Stage 2 and RRC aspects Nokia discussion Rel-19 NR\_MIMO\_Ph5-Core Late

R2-2507565 Discussion on remaining RRC issue China Telecom discussion

R2-2507605 [Z408][K103][H400][H403][Z409]RIL Issues for MIMO ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507657 [K103][H402] Discussion on RIL related issues CATT 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-250188](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_107/Docs/RP-250188.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 8.13.1 Organizational

LSs and rapporteur input

R2-2506805 SRAP open issues for NR sidelink multi-hop relay OPPO report NR\_SL\_relay\_multihop

R2-2507150 Miscellaneous SRAP corrections for multi-hop U2N Relay OPPO, ASUSTeK CR Rel-19 38.351 19.0.0 0042 - F NR\_SL\_relay\_multihop

R2-2507183 Open issues on Rel-19 multihop relay 38.304 CR MediaTek Inc. discussion Rel-19 NR\_SL\_relay\_multihop-Core

R2-2507455 MAC Open Issues Discussion InterDigital France R&D, SAS discussion

R2-2507488 Corrections to WI SLRelay Huawei, HiSilicon (Rapporteur) CR Rel-19 38.331 19.0.0 5537 - F NR\_SL\_relay\_multihop-Core Late

R2-2507489 WI SLRelay ASN.1 Review file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_SL\_relay\_multihop-Core Late

R2-2507490 WI SLRelay ASN.1 Comments file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_SL\_relay\_multihop-Core Late

R2-2507559 Open issues on Rel-19 Relay Capability Samsung discussion Rel-19 NR\_SL\_relay\_multihop-Core

### 8.13.2 Control plane

Impact to 38.331 (except for capability issues), 38.304

R2-2506804 Discussion on control plane correction for multi-hop U2N relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop

R2-2506843 Further Discussion on Control Plane Leftover Issues CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

R2-2506844 Intra-gNB Service Continuity for Multi-hop U2N Relay CATT discussion Rel-19 NR\_SL\_relay\_multihop-Core

R2-2506925 [B100][B101][B102] issues for notification message Lenovo discussion Rel-19

R2-2506946 [W500][W501]Discussion on SUI for multi-hop U2N Relay NEC Corporation discussion Rel-19 NR\_SL\_relay\_multihop-Core

R2-2506983 Discussion on RIL [Z452][Z454][Z455][Z456][Z458][Z459] ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

R2-2506994 Discussion on Rel-19 SL MH-Relay RILs Xiaomi discussion Rel-19 NR\_SL\_relay\_multihop

R2-2507103 ASN.1 issues for SI/Paging forwarding (A500/O505/X501/K002/H451) Apple discussion Rel-19 NR\_SL\_relay\_multihop

R2-2507257 Discussion on discovery and relay reselection for multi-hop U2N relay LG Electronics Inc. discussion Rel-19 NR\_SL\_relay\_multihop

R2-2507259 Discussion on the control plane procedure for multi-hop U2N relay LG Electronics Inc. discussion Rel-19 NR\_SL\_relay\_multihop

R2-2507353 Remaining issue on U2N multi-hop U2N relay control plane Qualcomm Incorporated discussion NR\_SL\_relay\_multihop-Core

R2-2507427 Discussion on RIL E044 and RIL E029 Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

R2-2507428 discussion on RIL E049 and RIL E050 Ericsson discussion Rel-19 NR\_SL\_relay\_multihop

R2-2507451 Correction on Restricting Service Continuity for Inter-gNB cases InterDigital France R&D, SAS discussion Rel-19

R2-2507452 Corrections on Notification Message Handling InterDigital France R&D, SAS discussion Rel-19

R2-2507491 Discussion on Multi-hop Relay RILs [H452],[H454] and [H455] Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core Late

R2-2507492 Remaining issues for Multi-hop Relay Huawei, HiSilicon discussion Rel-19 NR\_SL\_relay\_multihop-Core

R2-2507541 [K002] Required SIB and Paging information release due to SL RLF ASUSTeK discussion Rel-19 38.331 NR\_SL\_relay\_multihop

R2-2507590 [O503] [Z454] [Z455] [Z456] [O505] [K002] [E044] [H452] [H454] discussion on remaining issues related to C-plane procedure for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

### 8.13.3 User plane corrections

Impact to 38.351, 38.321, and 38.323.

R2-2506803 Discussion on user plane correction for multi-hop U2N Relay OPPO discussion Rel-19 NR\_SL\_relay\_multihop

R2-2506984 Discussion on SRAP layer issue ZTE Corporation, Sanechips discussion Rel-19 NR\_SL\_relay\_multihop

R2-2507591 (SRAP-6) discussion on remaining issues related to U-plane procedure for multi-hop relay Sharp discussion Rel-19 NR\_SL\_relay\_multihop-Core

R2-2507633 SRAP error handling and related TP Samsung discussion

### 8.13.4 Others

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

R2-2507354 Last relay UE capability Qualcomm Incorporated, vivo, Samsung, Xiaomi, OPPO discussion 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

R2-2506721 Reply LS on NR Femto node shared by PLMN and PNI-NPN (R3-252337; contact: LGE) RAN3 LS in Rel-19 5G\_Femto, NR\_WAB\_5GFemto-Core, eNPN To:SA2 Cc:RAN2

R2-2506745 Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (Additional ULI) (S2-2504110; contact: Qualcomm) 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-251552](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_108/Docs/RP-251552.zip)

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

## 8.16 BDS B2b in A-GNSS

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

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

## 8.17 IoT-NTN TDD mode

(IoT\_NTN\_TDD; leading WG: RAN1; REL-19; WID RP-243293)

Time budget: 0TU

Tdoc Limitation: 1 tdoc

Corrections to all specs.

Including the lists of open issues, if any, raised in the following email discussions:

[Post131][310][IoT NTN TDD] Stage2 CR (Iridium)

[Post131][311][IoT NTN TDD] RRC CR (Huawei)

[Post131][312][IoT NTN TDD] MAC CR (Toyota)

[Post131][313][IoT NTN TDD] 36.304 CR (Xiaomi)

[Post131][314][IoT NTN TDD] capability CR (Samsung)

R2-2506714 LS on updated text proposal for 36.300 for IoT NTN TDD mode (R1-2506535; contact: Qualcomm) RAN1 LS in Rel-19 IoT\_NTN\_TDD To:RAN2

R2-2506741 LS Reply on precompensation for NB-IoT NTN TDD mode (R4-2512550; contact: Iridium) RAN4 LS in Rel-19 IoT\_NTN\_TDD-Core To:RAN1 Cc:RAN2

R2-2507048 Discussion on IoT NTN TDD mode OPPO discussion Rel-19 IoT\_NTN\_TDD

R2-2507062 Rapporteur correction on IoT NTN TDD Huawei, HiSilicon CR Rel-19 36.331 19.0.0 5161 - F IoT\_NTN\_TDD Revised

R2-2507063 RIL status on IoT NTN TDD Huawei, HiSilicon discussion Rel-19 IoT\_NTN\_TDD

R2-2507064 Neighbour cell measurement in IoT NTN TDD Huawei, HiSilicon discussion Rel-19 IoT\_NTN\_TDD

R2-2507262 Rapporteur correction on IoT NTN TDD Huawei, HiSilicon CR Rel-19 36.331 19.0.0 5161 1 F IoT\_NTN\_TDD R2-2507062

R2-2507442 Remaining issues for NB-IoT NTN TDD mode Qualcomm Incorporated discussion Rel-19 IoT\_NTN\_TDD

R2-2507456 Discussion on RIL [X501] for IoT NTN TDD Samsung discussion Rel-19

R2-2507612 Remaining issues on support of TDD mode for NB-IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-19 IoT\_NTN\_TDD

R2-2507674 Discussion on the RIL X501 (radioFrameOffset-r19) for IoT NTN TDD Beijing Xiaomi Electronics discussion Rel-19 IoT\_NTN\_TDD-Core

## 8.18 LTE-based 5G Broadcast

(LTE\_terr\_bcast\_Ph2; leading WG: RAN1; REL-19; WID RP-250794)

Time budget: 0 TU

Tdoc Limitation: 1 tdoc

### 8.18.1 Organizational

Incoming LS, rapporteur input etc.

R2-2507467 WI TerrBcast ASN.1 comments file Qualcomm Incorporated discussion Rel-19 LTE\_terr\_bcast\_Ph2-Core Late

R2-2507468 WI TerrBcast ASN.1 review file Qualcomm Incorporated discussion Rel-19 LTE\_terr\_bcast\_Ph2-Core Late

R2-2507469 Corrections to LTE-based 5G Broadcast Phase 2 after ASN.1 review Qualcomm Incorporated CR Rel-19 36.331 19.0.0 5168 - F LTE\_terr\_bcast\_Ph2-Core Late

### 8.18.2 RRC corrections

Corrections to TS 36.331 which require Tdoc submission as per RIL list.

R2-2507581 RRC corrections on LTE-based 5G Broadcast Samsung discussion Rel-19 Late

### 8.18.3 Other corrections

Corrections to other specifications including 36.321 and UE capabilities

R2-2507339 Consideration on cyclic shift for PMCH Samsung discussion Rel-19

## 8.19 TEI19

Time budget: 1 TU

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

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

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

### 8.19.1 RAN2-led

R2-2506876 Extension of SFN-DFN mechanism for SL multi-hop relay NEC, Ericsson discussion Rel-19 TEI19

R2-2506948 Discussion on SFN-DFN offset in multi-hop scenario Lenovo discussion Rel-19

R2-2506951 Introduction of SFN-DFN offset in Multi-hop scenario [PosMultiplehop] Lenovo CR Rel-19 38.331 19.0.0 5493 - B TEI19

R2-2507106 DRX adaptation for voice activity Apple discussion Rel-19

R2-2507243 Redirection from E-UTRAN TN to NB-IoT NTN [IoT-TN-NTN-redir] Google discussion Rel-19 TEI19

R2-2507289 RRC correction and stage 2 for TN to NTN redirection Samsung, Xiaomi discussion Rel-19 TEI19

R2-2507346 Asisstance for inter-RAT cell-selection from NB-IoT NTN to NR-NTN EchoStar, Boost Mobile, Qualcomm, Aalyria, Terrestar, Skylo, Sateliot CR Rel-19 36.306 19.0.0 1929 - B IoT\_NTN\_enh-Core

R2-2507356 NB-IoT NTN to NR NTN Cell Selection EchoStar, Boost Mobile, Qualcomm, Aalyria, Terrestar, Skylo, Sateliot CR Rel-19 36.331 19.0.0 5163 - B IoT\_NTN\_enh-Core

R2-2507358 Asisstance for inter-RAT cell-selection from NR NTN to NB-IoT NTN EchoStar, Boost Mobile, Qualcomm, Aalyria, Terrestar, Skylo, Sateliot CR Rel-19 38.306 19.0.0 1361 - B NR\_NTN\_enh-Core

R2-2507360 NR-NTN to NB-IoT NTN Cell Selection EchoStar, Boost Mobile, Qualcomm, Aalyria, Terrestar, Skylo, Sateliot CR Rel-19 38.331 19.0.0 5526 - B NR\_NTN\_Ph3-Core

R2-2507406 Introducing SR resources in LTM cell switch MAC CE [LTM\_enh\_SR] Ericsson, Continental Automotive, T-Mobile USA, BT Plc., Sharp, Charter Communications, Rakuten Mobile, Verizon, InterDigital, Qualcomm Incorporated, AT&T, Vodafone, MediaTek Inc., NTT Docomo, LG Electronics, Deutsche Telekom, Telia Company, Turkcell CR Rel-19 38.331 19.0.0 5530 - B TEI19

R2-2507407 Introducing SR resources in LTM cell switch MAC CE [LTM\_enh\_SR] Ericsson, Continental Automotive, T-Mobile USA, BT Plc., Sharp, Charter Communications, Rakuten Mobile, Verizon, InterDigital, Qualcomm Incorporated, AT&T, Vodafone, MediaTek Inc., NTT Docomo, LG Electronics, Deutsche Telekom, Telia Company, Turkcell CR Rel-19 38.321 19.0.0 2130 - B TEI19

R2-2507408 Introducing SR resources in LTM cell switch MAC CE [LTM\_enh\_SR] Ericsson, Continental Automotive, T-Mobile USA, BT Plc., Sharp, Charter Communications, Rakuten Mobile, Verizon, InterDigital, Qualcomm Incorporated, AT&T, Vodafone, MediaTek Inc., NTT Docomo, LG Electronics, Deutsche Telekom, Telia Company, Turkcell CR Rel-19 38.306 19.0.0 1367 - B TEI19

### 8.19.2 Other WG-led

R2-2506713 Reply LS on non-RedCap UE UL SRS frequency hopping for positioning (R1-2506531; contact: ZTE) RAN1 LS in Rel-19 TEI19 To:RAN3 Cc:RAN2

R2-2506715 Reply LS on UL Tx switching for TEI19 (R1-2506538; contact: MediaTek) RAN1 LS in Rel-19 TEI19 To:RAN4, RAN2

R2-2507022 Discussion on SA2 reply LS on paging capability loss issue vivo discussion Rel-19 NR\_LPWUS-Core, TEI19

R2-2507100 Restriction on RAT utilization Apple, OPPO, InterDigital, Huawei, HiSilicon, Nokia, Samsung, Ericsson draftCR Rel-19 25.304 18.0.0 B ECRATU

R2-2507139 Rapporteur correction on CAS muting for LTE based 5G broadcast [5GB\_CASMuting] Huawei, HiSilicon, Samsung CR Rel-19 36.331 19.0.0 5162 - F TEI19 Revised

R2-2507237 5G Broadcast CAS Muting in stage 2 spec [5GB\_CASMuting] ZTE Corporation, Sanechips, Samsung, Huawei CR Rel-19 36.300 19.0.0 1436 - F TEI19

R2-2507263 Rapporteur correction on CAS muting for LTE based 5G broadcast [5GB\_CASMuting] Huawei, HiSilicon, Samsung CR Rel-19 36.331 19.0.0 5162 1 F TEI19 R2-2507139

R2-2507689 Discussion on speed dependant scaling of measurement related parameters KDDI discussion Rel-19 TEI19

## 8.20 NR Others

Tdoc limit: 2

Specific items may be allocated to a breakout session for treatment.

Impacts from Other RAN WGs and TSGs that has no separate TU budget in RAN2. LS ins for Rel-19 specific WIs/SIs that has no RAN WI.

Additional tdocs on top of limit can be allowed for co-sourced contribution with 3 or more companies

### 8.20.1 RAN4

R2-2506730 LS on RRC signalling for power domain enhancement (R4-2511759; contact: Huawei) RAN4 LS in Rel-19 NR\_ENDC\_RF\_Ph4-Core To:RAN2

R2-2506735 LS on Release Independence of 6Rx (R4-2511898; contact: T-Mobile) RAN4 LS in Rel-19 NR\_ENDC\_RF\_Ph4-Core To:RAN2 Cc:RAN1

R2-2506736 Reply LS on CSSF optimization for NR RRM Phase 5 (R4-2512161; contact: Apple) RAN4 LS in Rel-19 NR\_RRM\_Ph5-Core To:RAN2

R2-2506739 LS on Rx BSF optimization for NR RRM Phase 5 (R4-2512333; contact: CICT RAN4 LS in Rel-19 NR\_RRM\_Ph5-Core To:RAN2

R2-2506742 LS on UE Capability for Rel.19 Ku band VSAT (R4-2512658; contact: Chunghwa Telecom, Sharp) RAN4 LS in Rel-19 NR\_NTN\_Ku\_bands To:RAN2

R2-2506788 Report of [Post131][225][NR\_Others] On Rx BSF optimization (CATT) CATT discussion Rel-19 NR\_RRM\_Ph5-Core

R2-2506789 Introduction of Rx BSF optimization for NR RRM Ph5 CATT draftCR Rel-19 38.331 18.6.0 B NR\_RRM\_Ph5-Core

R2-2506933 Introduction of Ku band Huawei, HiSilicon CR Rel-19 38.331 19.0.0 5492 - B NR\_NTN\_Ku\_bands

R2-2506934 Introduction of Ku band Huawei, HiSilicon CR Rel-19 38.306 19.0.0 1356 - B NR\_NTN\_Ku\_bands

R2-2506947 Discussion on UE capability of low band CA via switching Huawei, HiSilicon discussion Rel-19 NR\_LBCA\_Sw

R2-2506987 [DRAFT] Reply LS on Release Independence of 6Rx Qualcomm Incorporated, T-Mobile LS out Rel-19 NR\_ENDC\_RF\_Ph4-Core To:RAN4 Cc:RAN1

R2-2507124 UE capability for LBCA via switching Apple discussion Rel-19 NR\_LBCA\_Sw

R2-2507171 Discussion on release independent of 6Rx vivo discussion Rel-19

R2-2507193 UE Capability for Rel-19 Ku Band VSAT (R4 60-1/60-2) Sharp, CHTTL, SES discussion Rel-19 NR\_NTN\_Ku\_bands

R2-2507194 Draft 38.306 CR for Rel-19 NTN Ku Band Sharp, CHTTL, SES draftCR Rel-19 38.306 19.0.0 NR\_NTN\_Ku\_bands

R2-2507195 Draft 38.331 UE capability CR for Rel-19 NTN Ku Band Sharp, CHTTL, SES draftCR Rel-19 38.331 19.0.0 NR\_NTN\_Ku\_bands

R2-2507383 The introduction of NTN VSAT FR1 capabilities in 38.306 Nokia, Nokia Shanghai Bell draftCR Rel-19 38.306 19.0.0 NR\_NTN\_Ku\_bands

R2-2507384 The introduction of NTN VSAT FR1 capabilities in 38.331 Nokia, Nokia Shanghai Bell draftCR Rel-19 38.331 19.0.0 NR\_NTN\_Ku\_bands

R2-2507601 Consideration on the LBCA Capability Signaling ZTE Corporation discussion Rel-19 NR\_LBCA\_Sw

R2-2507603 Backwards compatibility for low NR band carrier aggregation switching Ericsson discussion

R2-2507606 Consideration on the Type 2 and Type 4 UE Capability Reporting ZTE Corporation discussion Rel-19 NonCol\_intraB\_ENDC\_NR\_CA\_Ph2-Core

R2-2507613 Fast Beam Sweeping Factor Nokia discussion Rel-19 NR\_RRM\_Ph5-Core Late

### 8.20.2 Other WGs

R2-2506705 Reply LS on UE usage of the RAT restrictions (C1-255319; contact: Apple) CT1 LS in Rel-19 ECRATU To:RAN2 Cc:CT4, RAN

R2-2506706 Reply LS to SA4 on the RAN simulation assumptions for ULBC (C1-255650; contact: Qualcomm) CT1 LS in Rel-19 FS\_ULBC To:SA4 Cc:SA2, SA1, RAN1, RAN2, RAN4

R2-2506707 LS on Broadcasting Information on Disaster Condition of a PLMN from E-UTRAN in Case of Disaster Condition (C1-255678; contact LGE) CT1 LS in Rel-19 MINT\_Ph2 To:RAN2 Cc:SA2

R2-2506716 Reply LS on the RAN simulation assumptions for ULBC (R1-2506541; contact: Qualcomm) RAN1 LS in Rel-19 FS\_ULBC To:SA4 Cc:RAN4, RAN2, SA2, CT1

R2-2506732 Response LS on the RAN simulation assumptions for ULBC (R4-2511782; contact: Xiaomi) RAN4 LS in Rel-20 FS\_ULBC To:SA4 Cc:RAN2, RAN1, SA2

R2-2506733 LS on capability of NR\_LBCA\_Sw (R4-2511863; contact: Huawei) RAN4 LS in Rel-19 NR\_LBCA\_Sw To:RAN2

R2-2506746 Reply LS on the RAN simulation assumptions for ULBC (S2-2507578; contact: Qualcomm) SA2 LS in Rel-20 FS\_ULBC To:SA4 Cc:RAN1, RAN2, RAN4, SA1, CT1

R2-2506749 Reply LS on energy saving indication from CN to RAN (S2-2507784; contact: LGE) SA2 LS in Rel-19 EnergySys To:RAN3 Cc:RAN2

R2-2506754 LS on bundling period and SPS for ULBC (S4aA250258; contact: Qualcomm) SA4 LS in Rel-20 FS\_ULBC To:RAN2 Cc:RAN1

R2-2506756 LS on temporary suspension of trace production (S5-253909; contact: Ericsson) SA5 LS in Rel-19 TraceQoE\_OAM To:RAN3, RAN2

R2-2506758 Reply to RAN2 LS on Number of UEs in RRC\_INACTIVE state with data transmission (S5-254084; contact: China Telecom) SA5 LS in Rel-19 PM\_KPI\_5G\_Ph4 To:RAN2 Cc:RAN3

R2-2507175 Impacts of MINT-EPS feature on RAN2 specifications Lenovo discussion Rel-19 MINT\_Ph2

R2-2507394 Discussion on LS temporary suspension of trace production L.M. Ericsson Limited LS out Rel-19 To:SA5 Cc:RAN3

# 9 NR Rel-20

R2-2506747 LS on issues related to support of IMS voice over NB-IoT NTN connected to EPC (S2-2507636; contact: Qualcomm) SA2 LS in Rel-20 FS\_5GSAT\_Ph4\_ARC To:RAN2, SA4, CT1, SA3, SA1, RAN1

## 9.1 AI/ML for PHY Ph2

(NR\_AIML\_air\_Ph2, leading WG: RAN1; REL-20; WID: [RP-252445](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252445.zip))

Time budget: 0 TU

Tdoc Limitation: 0 tdoc

R2-2506744 LS on specification of dataset and model parameters exchange (RP-252966; contact: Qualcomm, InterDIgital) RAN LS in Rel-20 NR\_AIML\_air\_Ph2 To:SA Cc:SA2, SA5, RAN2

R2-2506752 LS on UE data collection and data transfer (S2-2508119; contact: Nokia) SA2 LS in Rel-20 FS\_AIML\_CN\_Ph2 To:RAN2 Cc:RAN1, RAN3

## 9.2 Ambient IoT Ph2

(Ambient\_IoT\_Solutions\_Ph2, leading WG: RAN1; REL-20; WID: [RP-252894](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252894.zip))

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

### 9.2.1 Organizational

R2-2507032 Work Plan for Solutions for Ambient IoT (Internet of Things) in NR Phase 2 Huawei, T-Mobile USA Work Plan Rel-20

### 9.2.2 Topology 2

*Contributions on support for Deployment Scenario 2 with Topology 2 with intermediate UE as Reader under the following conditions. Only for traffic types DO-DTT and DT.*

R2-2506766 Discussion on TP2 in A-IOT Transsion Holdings discussion Rel-19

R2-2506875 Discussion on Topology 2 with intermediate UE as Reader NEC discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2506886 Discussion on Topology 2 for Ambient IoT China Telecom discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2506901 Discussion on Topology 2 for A-IoT CMCC discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2506914 Discussion on A-IoT topology 2 Spreadtrum, UNISOC discussion Rel-20

R2-2506922 Discussion for Topology 2 for Rel-20 Ambient IoT Lenovo discussion Rel-19

R2-2506930 Discussion on topology 2 for A-IoT OPPO discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2506943 Discussion on Topology-2 for Ambient IoT CATT discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2506956 Discussion on A-IoT phase 2 deployment scenario Tejas Network Limited discussion Rel-20

R2-2506963 Discussion on Topology 2 vivo discussion Ambient\_IoT\_Solutions\_Ph2

R2-2506968 Discussion on Deployment Scenario 2 with Topology 2 in A-IoT SHARP Corporation discussion

R2-2506985 Support of Topology 2 for A-IoT Xiaomi discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507033 Support for Device 1 operation in Deployment Scenario 2 with Topology 2 Huawei, HiSilicon discussion Rel-20

R2-2507038 Discussion on A-IoT resource allocation for T2 HONOR discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507102 Discussion on Topology 2 Apple discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507173 Rel-20 A-IoT: Topology 2 aspects Qualcomm Incorporated discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2-Core

R2-2507198 RAN2 impacts to support D2T2 for DT and DO-DTT traffic Ofinno discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507211 Discussion on Topology 2 for A-IoT KT Corp. discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507212 Discussion on Topology 2 for AIoT LG Electronics Inc. discussion Ambient\_IoT\_Solutions\_Ph2

R2-2507240 Discussion on Ambient IoT Topology 2 ETRI discussion Rel-20

R2-2507269 Considerations for Deployment Scenario 2 with Topology 2 Panasonic discussion Rel-20

R2-2507297 Discussion on Topology 2 for AIoT Continental Automotive discussion Rel-20

R2-2507318 Discussion on Topology 2 for Ambient IoT Sony discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507348 Initial consideration on Ambient-IoT topology 2 ZTE Corporation, Sanechips discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507429 Aspects for Ambient IoT Topology 2 Ericsson discussion Rel-20

R2-2507454 Initial Considerations for Topology 2 InterDigital France R&D, SAS discussion Rel-20

R2-2507458 Ambient IoT aspects in Topology 2 Nokia discussion Rel-20

R2-2507501 Initial consideration of A-IoT radio resource management for Topology 2 Kyocera discussion Rel-20

R2-2507513 Discussion on Topology 2 for Ambient IoT TCL discussion

R2-2507560 Discussion on A-IoT resources for UE reader ASUSTeK discussion Rel-20 Ambient\_IoT\_Solutions\_Ph2

R2-2507585 Discussion on Topology 2 for Ambient IoT CEWiT discussion

R2-2507619 Initial discussion on introduction of Topology 2 NTT DOCOMO, INC. discussion Rel-20

R2-2507651 Discussion on requirements for UE as reader Rakuten Mobile, Inc discussion Late

## 9.3 AI/ML for mobility

(NR\_AIML\_Mob, leading WG: RAN2; REL-20; WID: [RP-252899](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252899.zip))

Time budget: 0 TU

Tdoc Limitation: 0 tdoc

## 9.4 Mobility Enh Ph5

(NR\_Mob\_Ph5; leading WG: RAN2; REL-20; WID: [RP-252113](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252113.zip))

time budget: 0 TU

Tdoc Limitation: 0 tdoc

## 9.5 XR Enhancements Ph4

(NR\_XR\_Ph4; leading WG: RAN2; REL-20; WID: [RP-252755](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252755.zip))

Time budget: 0 TU

Tdoc Limitation:0 tdocs

## 9.6 SON/MDT Ph5

(NR\_SON\_MDT\_Ph5-Core; leading WG: RAN3; REL-19; WID: RP-251869)

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

## 9.7 IoT NTN Ph4

(IoT\_NTN\_Ph4; leading WG: RAN2; REL-20; WID: [RP-252473](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252473.zip)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdocs

R2-2506874 Discussion on supporting IMS voice call over GSO for NB-IoT CATT discussion Rel-20 IoT\_NTN\_Ph4

### 9.7.1 Organizational

R2-2506831 Work Plan for IoT NTN Ph4 vivo Work Plan Rel-20 IoT\_NTN\_Ph4-Core

R2-2507444 [Draft] Reply LS on the RAN simulation assumptions for ULBC Qualcomm Incorporated LS out Rel-20 FS\_ULBC To:SA4 Cc:RAN1, SA2, CT1

R2-2507445 [Draft] Reply LS on issues related to support of IMS voice over NB-IoT NTN connected to EPC Qualcomm Incorporated LS out Rel-20 IoT\_NTN\_Ph4 To:SA2 Cc:RAN1, SA4, SA1, CT1

R2-2507446 [Draft] Reply LS on bundling period and SPS for ULBC Qualcomm Incorporated LS out Rel-20 FS\_ULBC To:SA4 Cc:RAN1

R2-2507447 Discussion on SA4 and SA2 LS replies on voice over NB-IoT Qualcomm Incorporated discussion Rel-20 IoT\_NTN\_Ph4

### 9.7.2 Other

Contributions should focus on down-selecting between CP and UP solutions for voice support over NB-IoT-NTN until RAN#110 and any responses to other WG LSs

R2-2506832 Discussion on Support of IMS Voice over NB-IoT NTN vivo discussion Rel-20 IoT\_NTN\_Ph4-Core

R2-2506882 Discussion of NB-IoT voice over GEO China Telecom discussion Rel-20 IoT\_NTN\_Ph4

R2-2506908 Discussion on UP solution vs. CP solution for voice support over NB-IoT-NTN CMCC discussion Rel-20 IoT\_NTN\_Ph4

R2-2506912 Discussion on CP and UP solutions for GEO voice Spreadtrum, UNISOC discussion Rel-20

R2-2506919 Considerations on voice support over IoT-NTN Lenovo discussion Rel-19

R2-2506945 Discussion on support of IMS voice call over GSO Transsion Holdings discussion Rel-20

R2-2506982 Discussion on IMS voice over GSO Xiaomi discussion Rel-20 IoT\_NTN\_Ph4

R2-2506991 Discussion on IMS voice over GEO CSCN discussion Rel-20 IoT\_NTN\_Ph4

R2-2507039 Discussion on IoT-NTN to support IMS voice call HONOR discussion Rel-20 IoT\_NTN\_Ph4

R2-2507049 Discussion on voice support over NB-IoT NTN OPPO discussion Rel-20 IoT\_NTN\_Ph4

R2-2507065 General consideration on voice over NB-IoT NTN via GSO Huawei, HiSilicon discussion Rel-20 IoT\_NTN\_Ph4-Core

R2-2507085 Comparison of solutions for voice call support over NB-IoT NTN ZTE Corporation, Sanechips discussion Rel-20 IoT\_NTN\_Ph4-Core

R2-2507125 Discussion on voice over GEO Apple discussion Rel-20 IoT\_NTN\_Ph4

R2-2507136 Discussion on support of voice over NB-IoT-NTN via GEO Nokia, Nokia Shanghai Bell discussion Rel-20 IoT\_NTN\_Ph4

R2-2507137 Discussion on the Support of IMS Voice over NB-IoT NTN Connected to EPC MediaTek Inc. discussion

R2-2507196 UP Solution vs CP Solution for Voice Support over NB-IoT-NTN Sharp discussion Rel-20 IoT\_NTN\_Ph4

R2-2507208 Discussion on voice support over NT-IoT-NTN ETRI discussion Rel-20 IoT\_NTN\_Ph4

R2-2507260 Discussion on how to cupport voice call via IoT-NTN LG Electronics Inc. discussion Rel-20 IoT\_NTN\_Ph4

R2-2507290 Initial discussions on voice over NB-IoT NTN Samsung discussion Rel-20

R2-2507324 Consideration on IMT voice over IoT NTN InterDigital Communications discussion Rel-20

R2-2507362 Voice over GSO based on NB-IOT NTN NEC discussion Rel-20 IoT\_NTN\_Ph4-Core

R2-2507448 Discussion on CP and UP solutions Qualcomm Incorporated discussion Rel-20 IoT\_NTN\_Ph4

R2-2507641 NB-IoT NTN voice over GSO Ericsson discussion Rel-20 IoT\_NTN\_Ph4-Core

## 9.8 E-UTRA TN to NR NTN HO

(LTE\_TN\_NR\_NTN\_HO; leading WG: RAN2, Rel-20; WID [RP-252890](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252890.zip))

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

# 10 6GR Rel-20 - Study on 6G Radio Access Technology

*New SID: Study on 6G Radio; leading WG: RAN1; REL-20; started: Aug. 25; target: May. 27; SID: RP-251881*

*Time budget: 4 TUs*

*Tdoc limit:6. Co-sourced contributions will count towards tdoc limit.*

*Guidelines:*

***Proposal limit****: 7 proposals per contribution. Proposals should focus on addressing the issues that should be discussed, prioritized and addressed at this stage of the work (i.e. proposals on how to advance the work and technical areas to address). Observations to justify proposals, which are copied in conclusion section are recommended. Contributions should address lessons learned from 5G and justify the need/gains. Observations and Proposals should fit in one page in conclusion section at the end of contribution (i.e. reasonable length proposals and font size).*

***Inter-WG and Inter-TSGs issues****: Companies are encouraged to identify inter-WG and/or inter-TSG dependencies/decisions that impact RAN2 design. Intention is to coordinate closely with other WGs and prioritize accordingly.*

*NOTE: AIs will be further refined after RAN1#131bis*

*NOTE: As endorsed in RP-252909, section 1, RAN2 will wait for RAN Plenary study on migration options to start after March 206 and wait for further guidance on whether to consider 6G-6G DC and/or NR-6GR DC. For now the 6G study in RAN2 should focus on standalone deployment and enhancements.*

## 10.1 Organizational

*Reserved for rapporteur inputs, including work plan, skeleton TR and LSs*

R2-2506743 LS on Early Alignment on Access Stratum security aspects (RP-252891; contact: Vodafone) RAN LS in Rel-20 FS\_6G\_Radio To:SA Cc:RAN2, RAN3, SA3, SA2

R2-2506760 LS on Study on Modernization of Specification Format and Procedures for 6G (SP-251228; contact: Nokia, Samsung, CMCC, ETSI) SA LS in Rel-20 FS\_6GSpecs To:RAN1, RAN2, RAN3, RAN4, RAN5, SA1, SA2, SA3, SA4, SA5, SA6, CT1, CT3, CT4, CT6 Cc:RAN, CT

R2-2506761 LS on Guidance on 6G data related work tasks (SP-251261; contact: CMCC SA LS in Rel-20 To:SA2, SA5 Cc:SA3, SA6, RAN, RAN2, RAN3

R2-2506762 Reply to LS on Early Alignment on Access Stratum security aspects (SP-251268; contact: Vodafone) SA LS in Rel-20 To:RAN, SA3, RAN2, RAN3 Cc:SA2

R2-2506903 Draft skeleton of the TR 38.760-2 Study on 6G Radio RAN2 aspects CMCC discussion Rel-20 FS\_6G\_Radio

R2-2506904 Work Plan for 6G SI RAN2 CMCC, NTT DOCOMO, AT&T, Vodafone Work Plan Rel-20 FS\_6G\_Radio

## 10.2 General aspects

*Including contributions on principles, guidelines, new services, deployment scenarios and architectures, and other general aspects including UE capability framework, etc.*

*More detailed aspects related to energy efficiency and power savings can be discussed as part of UP/CP/Common design.*

R2-2506767 General discussion in 6G Transsion Holdings discussion

R2-2506772 General considerations on RAN2 6G study Xiaomi discussion Rel-20 FS\_6G\_Radio

R2-2506773 General Consideration on 6GR UE Capability Xiaomi discussion Rel-20 FS\_6G\_Radio

R2-2506797 Considerations on 6GR general aspects vivo discussion Rel-20

R2-2506806 Views on 6GR Fainity Innovation discussion

R2-2506855 General considerations for 6G in RAN2 Huawei, HiSilicon discussion Rel-20 FS\_6G\_Radio

R2-2506860 Overview on 6G Radio Access Technology CATT discussion Rel-20 FS\_6G\_Radio

R2-2506887 SSB Transmission Consideration in 6GR T-Mobile USA; Ericsson discussion

R2-2506893 6G General Aspects Sharp discussion Rel-20 FS\_6G\_Radio

R2-2506910 General considerations on 6GR CMCC discussion Rel-20 FS\_6G\_Radio

R2-2506917 General considerations on 6GR Spreadtrum, UNISOC discussion Rel-20

R2-2506949 General aspects for 6G Radio protocol Samsung, Verizon discussion Rel-20 FS\_6G\_Radio

R2-2506950 General aspects on RAN2 6G OPPO discussion Late

R2-2506975 Enhancement of Public Safety Support Fraunhofer IIS, Fraunhofer HHI discussion

R2-2506988 Considerations on UE capability signalling in 6G Qualcomm Incorporated discussion Rel-20 FS\_6G\_Radio

R2-2506992 Discussion on the general aspects of 6G NTN CSCN discussion Rel-20 FS\_6G\_Radio

R2-2507070 How to make the best possible 6G Ericsson discussion Rel-20

R2-2507079 6GR Design Nokia discussion Rel-20 FS\_6G\_Radio

R2-2507126 Initial considerations on UE capability framework in 6G Apple discussion Rel-20 FS\_6G\_Radio

R2-2507132 General considerations on 6GR Fujitsu discussion Rel-20 FS\_6G\_Radio

R2-2507138 Consideration of 6G NTN MediaTek Inc. discussion

R2-2507141 Consideration on general aspects for 6G LG Electronics Inc. discussion Rel-20 FS\_6G\_Radio Withdrawn

R2-2507147 On 6GR UE capability MediaTek Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507176 Discussion on general aspects on RAN2 study for 6GR Lenovo discussion Rel-20 FS\_6G\_Radio

R2-2507184 Scenarios and architectural principles for 6G RAN2 design Ofinno discussion Rel-20 FS\_6G\_Radio

R2-2507185 UE capability framework and key features for 6G Ofinno discussion Rel-20 FS\_6G\_Radio

R2-2507201 Discussions on General Aspects of 6GR Layer 2 Futurewei discussion Rel-20

R2-2507205 Views on 6G general aspects NTT DOCOMO INC.. discussion

R2-2507303 Design principles for 6G ZTE Corporation, Sanechips discussion

R2-2507307 General consideration on 6GR ITL discussion Rel-20

R2-2507312 Design of 6GR Radio Protocols InterDigital discussion Rel-20 FS\_6G\_Radio

R2-2507319 Discussion on 6GR Rel-20 general aspects Sony discussion Rel-20 FS\_6G\_Radio

R2-2507340 Consideration on general aspects for 6G LG Electronics Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507361 Single Frequency HetNet Deployment Scenario for 6GR Jio Platforms discussion Rel-20

R2-2507371 Overall framework for 6G from higher layer perspective NEC discussion Rel-20 FS\_6G\_Radio

R2-2507387 General considerations on 6GR China Unicom discussion Late

R2-2507393 Discussion on general aspects for 6GR TCL discussion Rel-20

R2-2507450 6G AI/ML Data Collection Requirements T-Mobile USA Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507502 Consideration of general aspects and principles for 6G study Kyocera discussion Rel-20

R2-2507506 Views on 6GR design principles and strategies ETRI discussion

R2-2507511 Initial Considerations for 6GR Access Technology Hanbat National University discussion Rel-20

R2-2507583 Guidelines for 6G AI\_ML for the air interface model delivery options BT Plc, T-Mobile USA, Orange, Deutsche Telekom, Turkcell, Verizon, Vodafone, KDDI discussion

R2-2507607 Consideration on 6G UE Capability ZTE Corporation discussion Rel-20 FS\_6G\_Radio

R2-2507644 6G Radio Access Technology general aspects for NTN THALES, Airbus, Echostar, Novamint, Fraunhofer IIS discussion Rel-20 FS\_6G\_Radio

## 10.3 Radio protocol architecture

#### 10.3.1 User plane

*Identification of essential user plane functions and considerations for user plane architecture.*

R2-2506768 Discussion on user plan in 6G Transsion Holdings discussion

R2-2506798 Considerations on 6GR user plane vivo discussion Rel-20

R2-2506808 General considerations on RAN2 6G UP design Beijing Xiaomi Mobile Software discussion Rel-20

R2-2506809 Discussion on 6G user plane enhancements Qualcomm France discussion Rel-20

R2-2506828 Discussion on User Plane for 6G RAN TCL discussion Rel-20

R2-2506845 6GR UP Architecture and Functions CATT discussion Rel-20 FS\_6G\_Radio

R2-2506850 Discussion on the 6G user plane features OPPO discussion Rel-20 FS\_6G\_Radio

R2-2506854 On 6G user plane architecture considerations and user plane functions MediaTek UK discussion Rel-20

R2-2506883 Consideration of User Plane Functions for 6GR China Telecom discussion Rel-20 FS\_6G\_Radio

R2-2506894 Initial Considerations for 6GR User Plane Sharp discussion Rel-20 FS\_6G\_Radio

R2-2506905 Consideration on 6GR User Plane CMCC discussion Rel-20 FS\_6G\_Radio

R2-2506913 Discussion on user plane protocol of 6GR Spreadtrum, UNISOC discussion Rel-20

R2-2506938 6GR User plane aspects Fujitsu discussion Rel-20 FS\_6G\_Radio

R2-2506940 Discussion on 6GR User Plane functions and architecture Huawei, HiSilicon discussion FS\_6G\_Radio

R2-2506952 Considerations for ARQ-less 6G user plane KT Corp. discussion Rel-20 FS\_6G\_Radio

R2-2507034 Discussion on User plane for 6GR HONOR discussion Rel-20 FS\_6G\_Radio

R2-2507071 User plane: Let's keep it simple! Ericsson discussion Rel-20

R2-2507113 Views on Directions of 6G User Plane Enhancements Apple discussion Rel-20 FS\_6G\_Radio

R2-2507127 Considerations on User plane for 6G LG Electronics Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507157 6G UP design Nokia, Nokia Shanghai Bell discussion

R2-2507186 Overview of User Plane Ofinno discussion Rel-20 FS\_6G\_Radio

R2-2507200 On 6G User Plane NTT DOCOMO, INC. discussion Rel-20

R2-2507202 Discussions on 6G User Plane Futurewei discussion Rel-20

R2-2507216 User plane functions for 6G Samsung discussion FS\_6G\_Radio

R2-2507241 Discussion on User Plane Design for 6GR ETRI discussion Rel-20

R2-2507250 6G Radio protocol architecture - User Plane Aspects Lenovo discussion Rel-20 FS\_6G\_Radio

R2-2507302 6G User plane functionality and dependencies ZTE Corporation, Sanechips discussion

R2-2507313 Requirements for L2 protocols InterDigital discussion Rel-20 FS\_6G\_Radio

R2-2507320 Discussion on 6GR Rel-20 User plane aspects Sony discussion Rel-20 FS\_6G\_Radio

R2-2507333 Discussion on Radio Protocol Architecture – User Plane Rakuten Mobile, Inc discussion Rel-20

R2-2507372 Overview of 6G User Plane protocol architecture NEC discussion Rel-20 FS\_6G\_Radio

R2-2507389 Discussion on user plane functions Tejas Network Limited discussion Rel-20

R2-2507461 Considerations for 6G User Plane Functions and Protocols CEWiT discussion

R2-2507512 Initial Considerations to Support User Plane Function in the AI-native RAN Architecture Hanbat National University discussion Rel-20

R2-2507542 Discussion on 6G User Plane design ASUSTeK discussion Rel-20

R2-2507575 Discussion on 6G AS User plane design Google Korea LLC discussion FS\_6G\_Radio

R2-2507579 Considerations on User Plane for 6GR KDDI Corporation discussion

R2-2507645 6G User Plane design aspects for NTN THALES, Airbus, Echostar, Novamint, Fraunhofer IIS discussion Rel-20 FS\_6G\_Radio

#### 10.3.2 Control plane

*RRC modelling, connection management, initial and system access, including system information, paging etc..*

R2-2506769 Discussion on control plan in 6G Transsion Holdings discussion

R2-2506774 Discussion on 6GR control plane protocol design Xiaomi discussion Rel-20 FS\_6G\_Radio

R2-2506799 Considerations on 6GR control plane vivo discussion Rel-20

R2-2506819 Overview of 6GR Control Plane CATT discussion Rel-20 FS\_6G\_Radio

R2-2506846 Discussion on 6GR control plane OPPO discussion Rel-20 FS\_6G\_Radio

R2-2506856 Discussion on 6G control plane Huawei, HiSilicon discussion Rel-20 FS\_6G\_Radio

R2-2506857 Energy efficient and unified RRC state modelling Huawei, HiSilicon discussion Rel-20 FS\_6G\_Radio

R2-2506859 6G Radio protocol architecture Lenovo discussion FS\_6G\_Radio

R2-2506884 Discussion on control plane aspects in 6GR China Telecom discussion Rel-20 FS\_6G\_Radio

R2-2506888 Introduction of explicit Network Type Indicator for 6G T-Mobile USA Inc. discussion Withdrawn

R2-2506890 RAN2 Enhancements Considerations for Fixed Wireless Access T-Mobile USA Inc. discussion

R2-2506891 Service Aware RAN RAN2 consideration T-Mobile USA Inc. discussion

R2-2506895 Initial Considerations for 6GR Control Plane Sharp discussion Rel-20 FS\_6G\_Radio

R2-2506900 Discussion on 6G control plane CMCC discussion Rel-20 FS\_6G\_Radio

R2-2506932 Initial Considerations on RRC Protocol Architecture for 6GR TCL discussion

R2-2506957 Control plane architecture and 6G RRC protocol design MediaTek Inc. discussion Rel-20

R2-2507035 Considerations of Control plane for 6G Radio HONOR discussion Rel-20 FS\_6G\_Radio

R2-2507069 Consideration on 6G control plane ZTE Corporation, Sanechips discussion Rel-20 FS\_6G\_Radio

R2-2507072 Controlling the 6G access stratum Ericsson discussion Rel-20

R2-2507073 RRC, ASN.1 and other signalling aspects for 6G Ericsson discussion Rel-20

R2-2507096 RRC Signaling Framework with more close integration with the slices Panasonic discussion Rel-20

R2-2507111 Views on Directions of 6G Control Plane Enhancements Apple discussion Rel-20 FS\_6G\_Radio

R2-2507131 Initial consideration on Control plane aspects in 6G Fujitsu discussion Rel-20 FS\_6G\_Radio

R2-2507142 Consideration on control plane aspects for 6G LG Electronics Inc. discussion Rel-20 FS\_6G\_Radio Withdrawn

R2-2507146 On 6G RRC design Nokia discussion Rel-20 FS\_6G\_Radio

R2-2507172 Views on Control Plane for 6G Qualcomm Incorporated discussion Rel-20 FS\_6G\_Radio

R2-2507182 Discussion on RRC state for 6G ETRI discussion

R2-2507187 Control Plane aspects for 6G Ofinno discussion Rel-20 FS\_6G\_Radio

R2-2507203 Discussions on 6G Control Plane Futurewei discussion Rel-20

R2-2507232 Considerations for 6G Control Plane Samsung, Verizon discussion FS\_6G\_Radio

R2-2507270 RRC states and connection management for 6GR Panasonic discussion Rel-20

R2-2507321 Discussion on 6GR Rel-20 Control plane aspects Sony discussion Rel-20 FS\_6G\_Radio

R2-2507327 Views on 6G control plane NTT DOCOMO, INC. discussion Rel-20

R2-2507332 Discussion on Radio Protocol Architecture – Control Plane Rakuten Mobile, Inc discussion Rel-20

R2-2507341 Consideration on control plane aspects for 6G LG Electronics Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507373 Overview of 6G Control Plane aspects NEC discussion Rel-20 FS\_6G\_Radio

R2-2507392 Discussion on 6GR Control Plane Fraunhofer IIS, Fraunhofer HHI discussion

R2-2507433 Control Plane for 6GR InterDigital, Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507466 Initial consideration for RRC modeling in 6GR Kyocera discussion

R2-2507503 Initial consideration for 6G initial access aspects Kyocera discussion Rel-20

R2-2507556 Discussion on basic procedures of control plane for 6GR TCL discussion

R2-2507574 Discussion on 6G AS control plane design Google Korea LLC discussion FS\_6G\_Radio

R2-2507578 Considerations on Control Plane for 6GR KDDI Corporation discussion

R2-2507646 6G Control Plane design aspects for NTN THALES, Airbus, Echostar, Novamint, Fraunhofer IIS discussion Rel-20 FS\_6G\_Radio

#### 10.3.3 Common User plane and Control plane

*Access stratum security aspects, in alignment with requirements from SA3.*

*Transfer of various type of data (including AI/ML data, sensing, etc. ) and general AI/ML framework considerations.*

*NOTEs: Detailed AI/ML use case specific proposals are not expected in this meeting. Specific technical details/procedures related to sensing are not expected until RAN1 starts 6G sensing work.*

R2-2506763 Initial consideration for 6GR AI OPPO discussion Rel-20

R2-2506770 Discussion on energy efficient in 6G Transsion Holdings discussion

R2-2506775 Consideration on 6GR data transfer, AI/ML framework and security Xiaomi discussion Rel-20 FS\_6G\_Radio

R2-2506786 Considerations on 6G data transfer and AI framework CATT, CBN discussion Rel-20 FS\_6G\_Radio

R2-2506787 Considerations on 6G AS security CATT discussion Rel-20 FS\_6G\_Radio

R2-2506800 Considerations on 6GR AI framework vivo discussion Rel-20

R2-2506801 Considerations on 6G data collection and data transfer vivo, NTT DOCOMO, INC. discussion Rel-20

R2-2506851 Discussion on the RAN2-related 6G security aspects OPPO discussion Rel-20 FS\_6G\_Radio

R2-2506892 AI RAN RAN2 consideration T-Mobile USA Inc. discussion Withdrawn

R2-2506896 Initial Considerations for 6GR UP/CP Common Aspects Sharp discussion Rel-20 FS\_6G\_Radio

R2-2506897 6GR AI/ML Framework Sharp discussion Rel-20 FS\_6G\_Radio

R2-2506909 Consideration on general AI/ML framework and data collection CMCC discussion Rel-20 FS\_6G\_Radio

R2-2506911 Discussion on data transfer and general AIML framework for 6G Spreadtrum, UNISOC discussion Rel-20

R2-2506918 Discussion on transfer of various type of data and general AI/ML framework Transsion Holdings discussion Rel-20

R2-2506937 Discussion on Security Requirements in 6GR CMCC discussion Rel-20 FS\_6G\_Radio

R2-2506955 Discussion on data transfer and AI/ML framework in 6G Huawei, HiSilicon discussion Rel-20 FS\_6G\_Radio

R2-2506974 Support for Location Dependent Data Collection Fraunhofer IIS, Fraunhofer HHI discussion

R2-2507036 Discussion on Common User plane and Control plane for 6GR HONOR discussion Rel-20 FS\_6G\_Radio

R2-2507074 Common user and control plane aspects for 6G Ericsson discussion Rel-20

R2-2507081 Discussions on AIML framework and data transfer NTT DOCOMO, INC. discussion

R2-2507092 Considerations for AI/ML and sensing in 6G Samsung discussion Rel-20 FS\_6G\_Radio

R2-2507114 Views on Directions of 6G AI/ML general framework and data transfer Apple discussion Rel-20 FS\_6G\_Radio

R2-2507128 Considerations on Common User plane and Control plane for 6G LG Electronics Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507133 Initial consideration on 6GR CP/UP common aspects Fujitsu discussion Rel-20 FS\_6G\_Radio

R2-2507153 Qualcomm's Views on 6G AI/ML Framework for RAN2 QUALCOMM Europe Inc. - Italy discussion Rel-20 FS\_6G\_Radio

R2-2507180 Energy efficiency and AS security for 6GR InterDigital discussion Rel-20 FS\_6G\_Radio

R2-2507188 Overview of Common User Plane and Control Plane Ofinno discussion Rel-20 FS\_6G\_Radio

R2-2507204 Discussions on 6G Common Aspects of UP and CP Futurewei discussion Rel-20

R2-2507218 Considerations for Energy Saving and AS Security in 6GR Samsung, Verizon discussion Rel-20 FS\_6G\_Radio

R2-2507225 Discussion on data transfer design to support various type of data KT Corp. discussion

R2-2507226 Discussion on access stratum security aspects KT Corp. discussion

R2-2507229 Views on common user plane and control plane ZTE Corporation, Sanechips discussion FS\_6G\_Radio

R2-2507239 Considerations on Common User plane and Control plane for 6G AI/ML and Sensing LG Electronics Inc. discussion Rel-20

R2-2507268 Discussion on the radio protocols for transfer of various type of data ITRI discussion NR\_newRAT-Core

R2-2507291 Considerations for 6G unified CP and UP designs for TN and NTN Lenovo discussion Rel-20 FS\_6G\_Radio

R2-2507293 6GR Common User Plane and Control Plane aspects Lenovo discussion

R2-2507314 Framework for AI/ML and Transfer of Various Data Types InterDigital discussion Rel-20 FS\_6G\_Radio

R2-2507317 Discussion on common user plane and control plane for 6GR ITL discussion Rel-20

R2-2507322 Discussion on 6GR Rel-20 Common UP & CP aspects Sony discussion Rel-20 FS\_6G\_Radio

R2-2507335 Data Plane for AI-ML data collection Rakuten Mobile, Inc discussion Rel-20

R2-2507357 Enhancements on New Type of Data in 6G Jio Platforms discussion Rel-20

R2-2507374 Transfer of various data and AIML framework NEC discussion Rel-20 FS\_6G\_Radio

R2-2507388 Consideration on general AI/ML framework and data transfer China Unicom discussion Late

R2-2507397 Early alignment on the air interface security Vodafone GmbH discussion Rel-20

R2-2507398 Draft LS on Early Alignment on Access Stratum security aspects Vodafone GmbH LS out Rel-20 To:SA3 Cc:RAN 1,RAN 3, SA 2

R2-2507425 On AIML data transfer, interface protocols, framework Nokia discussion Rel-20 FS\_6G\_Radio

R2-2507449 On 6G AS security NTT DOCOMO, INC. discussion Rel-20 Withdrawn

R2-2507486 AI-Native Radio Protocols for 6G Qualcomm Incorporated discussion

=> Revised in R2-2507655

R2-2507655 AI-Native Radio Protocols for 6G Qualcomm Incorporated, MediaRek Inc. discussion

R2-2507514 Considerations on 6G AI/ML Data Collection and Management AT&T Labs, Inc discussion

R2-2507515 Considerations on 6GR general AI/ML framework TCL discussion

R2-2507543 Discussion on 6G AIML framework ASUSTeK discussion Rel-20

R2-2507545 Discussion on 6G Data Collection and Management Futurewei Technologies discussion Rel-20

R2-2507564 Discussion on Common User plane and Control plane ETRI discussion Rel-20

R2-2507580 Initial Considerations on the Impact of AS Security and New Services on 6G Common CP and UP China Telecom discussion Rel-20 FS\_6G\_Radio

R2-2507602 AIML Framework and Data Transfer Design MediaTek USA discussion Rel-20

R2-2507615 6GR Common Aspects Nokia, Nokia Shanghai Bell discussion Rel-20 FS\_6G\_Radio

### **10.4 Mobility**

*General mobility principles, types (e.g. L3, CHO, LTM, RLM/RLF, cell reselection), and measurements. Including Inter-RAT and intra-RAT mobility.*

R2-2506771 Discussion on mobility in 6G Transsion Holdings discussion

R2-2506776 Discussion on 6G mobility Xiaomi discussion Rel-20 FS\_6G\_Radio

R2-2506802 Considerations on 6GR mobility vivo discussion Rel-20

R2-2506811 Discussion on 6GR Mobility CATT discussion Rel-20 FS\_6G\_Radio

R2-2506853 Discussion on measurement and mobility framework for 6GR TCL discussion

R2-2506858 Discussion on 6GR mobility designs Huawei, HiSilicon other Rel-20 FS\_6G\_Radio

R2-2506885 Discussion on mobility aspects in 6GR China Telecom discussion Rel-20 FS\_6G\_Radio

R2-2506889 Views on 6G Mobility Fainity Innovation discussion

R2-2506898 Initial Considerations for 6GR Mobility Sharp discussion Rel-20 FS\_6G\_Radio

R2-2506899 Consideration on the mobility in 6GR CMCC discussion Rel-20 FS\_6G\_Radio

R2-2506916 General considerations on mobility for 6GR Spreadtrum, UNISOC discussion Rel-20

R2-2506939 Initial consideration on 6GR Mobility Fujitsu discussion Rel-20 FS\_6G\_Radio

R2-2506973 On 6G-Mobility Fraunhofer HHI, Fraunhofer IIS discussion

R2-2507037 Discussion on Mobility management for 6GR HONOR discussion Rel-20 FS\_6G\_Radio

R2-2507075 6G Mobility Ericsson discussion Rel-20

R2-2507095 Initial considerations on 6G Mobility OPPO discussion Rel-20 FS\_6G\_Radio

R2-2507120 Planning for 6G Mobility Study Apple discussion Rel-20 FS\_6G\_Radio

R2-2507135 Views on Mobility and RRM for 6G Qualcomm Incorporated discussion Rel-20 FS\_6G\_Radio

R2-2507143 Consideration on mobility aspects for 6G LG Electronics Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507169 Consideration on 6G Mobility ZTE Corporation discussion Rel-20 FS\_6G\_Radio

R2-2507189 Key considerations for mobility in 6G Ofinno discussion Rel-20 FS\_6G\_Radio

R2-2507206 Discussions on 6G Mobility Futurewei discussion Rel-20

R2-2507217 Study on 6G Mobility Framework Samsung, Verizon discussion Rel-20 FS\_6G\_Radio

R2-2507221 Discussion on 6G Mobility and measurement Lenovo discussion Rel-20 FS\_6G\_Radio

R2-2507247 Discussion on 6G mobility ETRI discussion Rel-20 FS\_6G\_Radio

R2-2507278 Considerations for 6G mobility design Panasonic discussion Rel-20

R2-2507292 Views on Mobility for 6GR KDDI Corporation discussion Rel-20

R2-2507294 Discussion on 6G mobility NTT DOCOMO, INC. discussion Rel-20

R2-2507323 Discussion on 6GR Rel-20 mobility aspects Sony discussion Rel-20 FS\_6G\_Radio

R2-2507336 Discussion on mobility aspects of 6G Radio Access Technology Rakuten Mobile, Inc discussion Rel-20

R2-2507365 Cell-Pair Specific Inter-RAT Mobility Configuration Jio Platforms discussion Rel-20

R2-2507366 Fundamentals of 6G Mobility Jio Platforms discussion Rel-20

R2-2507375 Overview of mobility procedures in 6G NEC discussion Rel-20 FS\_6G\_Radio

R2-2507385 Initial Thoughts on 6G MMM (Mobility, Measurements and Migration) Nokia discussion Rel-20 FS\_6G\_Radio

R2-2507391 Discussion on 6G Mobility framework Tejas Network Limited discussion Rel-20

R2-2507432 Connected Mobility for 6GR InterDigital, Inc. discussion Rel-20 FS\_6G\_Radio

R2-2507463 6G Mobility Framework CEWiT discussion

R2-2507487 Discussion on 6G Mobility Google discussion Rel-20

R2-2507500 Consideration of mobility for 6G study Kyocera discussion Rel-20

R2-2507544 Discussion on 6G Mobility design ASUSTeK discussion Rel-20

R2-2507562 Mobility for 6GR MediaTek Inc. discussion

R2-2507584 High level requirements for 6GR mobility BT plc discussion

R2-2507647 6G Mobility aspects for NTN THALES, Airbus, Echostar, Novamint, Fraunhofer IIS discussion Rel-20 FS\_6G\_Radio

# 11 Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

## 11.1 Session on V2X/SL, R19 NES and MOB

## 11.2 Session on R18 MIMOevo, R18 MUSIM, and R19 LP-WUS

## 11.3 Session on NR NTN and IoT NTN

## 11.4 Session on positioning and sidelink relay

## 11.5 Session on R19 XR and LTE-based 5G Broadcast

## 11.6 Session on maintenance and SON/MDT