3GPP TSG-RAN WG2 Meeting #124 R2-2xxxxxx

Chicago, USA, Nov. 13th – 17th, 2023

Source: RAN2 Chair (InterDigital)

Title: Agenda

# 1 Opening of the meeting

## 1.1 Call for IPR

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

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

## 1.2 Network usage conditions

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

## 1.3 Other

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

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

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

# 2 General

## 2.1 Approval of the agenda

## 2.2 Approval of the report of the previous meeting

## 2.3 Reporting from other meetings

## 2.4 Instructions

Rel-17 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.

Rel-18 CR Handling

- Current Plan: Rel-18 R2 Functional Freeze is Q4 2023, i.e. Rel-18 TSes need to be created at latest at this point in time.

- CRs for all Rel-18 WIs to be agreed at RAN2#124 (November 2023). Running Draft CRs need to be updated to be real CRs.

- Previously in-principle-agreed Rel-18 CRs (e.g. for TEI18 or WIs ending before November 2023) need to be updated towards the latest TS version and submitted for final CR agreement at RAN2#124 (CR editor / proponent need to do this).

- Such CRs do not need to be resubmitted to intermediate meetings before RAN2#124.

- Such CR may be superseded by revision due to correction, which is in-principle agreed (see bullet below). CR editor / proponent should be ready to handle such revisions.

- For WG meetings until functional freeze (including this) it is possible to maintain and revise Rel-18 CRs, also in-principle-agreed Rel-18 CRs, also for WIs with no TU budget (they are kept in the agenda for this purpose). It is better to fix issues now rather than wait for ASN.1 review.

- For revision proposals for Rel-18 CRs/DraftCRs, use TPs attached to discussion documents or DraftCRs (Includes current running Rel18 CRs or update of in-principle agreed Rel-18 CRs)

- CR editors / Rapporteurs are requested to continue even after close of their respective WIs to support maintenance related to their respective CR / WI.

Rel-18 RRC parameters and MAC CEs

- RRC parameters, including those requested by other groups, e.g. RAN1, are covered by WI-specific RRC CRs.

- MAC CE parameters, including those requested by other groups, e.g. RAN1, are covered by WI-specific MAC CRs

- For information see also R2-2306732, LS on Signalling alternatives, from R2#122.

Rel-18 UE capabilites

- Handling in RAN2 is expected similar to Rel-17.

- For information see also R2-2306810 Further Guidelines on UE capability definitions LS out, from R2#122.

Expected Outcomes

- EUTRA UE capabilities are covered in WI-specific CRs.

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

- UE capabilities in LPP 37355 are covered in CR for the Positioning WI.

During the work on NR UE caps:

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

- In WI-specific Rel-18 Agenda Items: RAN2 features are handled per WI. Case-by-case, for selected WIs, RAN1 and RAN4 features handled specifically per WI. The outcomes are covered in WI-specific Running CRs (draft CRs). It is expected that WI-specific UE cap running CRs will be merged with the Running Mega CRs only at/after RAN2#124.

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,

- WI rapporteurs input for WI planning etc,

- 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).

- Spec rapporteur list of open issues for Rel-18 items

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).

Tdoc submission for RAN2#124 deadline

* Nov. 3rd 1000 UTC

## 2.5 Others

# 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);

REL-15 and Earlier EUTRA WIs are in scope but not listed explicitly (long list), Except V2X and Sidelink WIs and Positioning WIs, which are adressed 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

### 4.1.0 In Principle Agreed CRs

### 4.1.1 Other

## 4.2 NB-IoT and eMTC support for NTN Rel-17

(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))

Tdoc Limitation: 1 tdocs

This Agenda Item is treated in the Breakout session that includes NTN

A single CR per TS with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed with contributions with CR in the appendix of the contribution

### 4.2.0 In Principle Agreed CRs

### 4.2.1 Other

## 4.3 V2X and Sidelink corrections Rel-15 and earlier

REL-15 and Earlier WIs related to V2x and Sidelink are in scope but not listed explicitly (long list).

This Agenda Item is treated in the V2X and Sidelink Breakout session

## 4.4 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).

This Agenda Item will be handled by email.

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 5 tdocs in total for all sub agenda items.

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

#### 5.1.1.1 Other

### 5.1.2 User Plane corrections

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

#### 5.1.2.0 In Principle Agreed CRs

#### 5.1.2.1 MAC

#### 5.1.2.2 RLC PDCP SDAP BAP

#### 5.1.2.3 Other

User plane related corrections that should be handled in User plane break out session.

### 5.1.3 Control Plane corrections

#### 5.1.3.0 In Principle Agreed CRs

#### 5.1.3.1 NR RRC

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

#### 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.

## 5.2 NR V2X

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

CR rapporteurs will take care of miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company first for small changes (e.g. non-controversial clarification/correction, editorial correction, etc.).

### 5.2.0 In Principle Agreed CRs

### 5.2.1 Other

## 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)

### 5.3.0 In Principle Agreed CRs

### 5.3.1 General and Stage 2 corrections

Including incoming LSs if any, Including impact to 36.305 and 38.305. 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.

### 5.3.2 Stage 3 corrections (RRC/LPP/MAC/capabilities)

## 5.4 SON MDT support for NR

(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)).

### 5.4.1 General and stage-2 corrections

Including incoming LSs, TS 37.320 corrections

### 5.4.2 TS 38.314 corrections

### 5.4.3 RRC corrections

# 6 NR Rel-17

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

## 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))

PRACH partitioning items

NR TEI17: Corrections are accepted. New TEI17 tech proposal requirements: a) authored by an operator (and preferably co-signed by more), AND: b) resolves a concrete problem in the market for this operator (no new vendor initiated enhancements).

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.

Tdoc limitation: 7 Tdocs

### 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)

#### 6.1.1.0 In Principle Agreed CRs

#### 6.1.1.1 Other

### 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).

#### 6.1.2.0 In Principle Agreed CRs

#### 6.1.2.1 Other

### 6.1.3 Control Plane corrections

#### 6.1.3.0 In Principle Agreed CRs

#### 6.1.3.1 NR RRC

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

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

*Including the outcome of [Post123][043][NR17] UE caps Maximum aggregated bandwidth (Qualcomm)*

*Including the outcome of [Post123][044][NR17] independentGapConfig-maxCC (Qualcomm)*

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

## 6.2 NR Sidelink relay

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

Tdoc Limitation: 1 tdoc

### 6.2.0 In Principle Agreed CRs

### 6.2.1 Other

A single CR per TS with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur. Larger open issues can be discussed with contributions (limited time).

## 6.3 NR Non-Terrestrial Networks (NTN)

(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))

Tdoc Limitation: 1 tdocs

A single CR per TS with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed with contributions with CR in the appendix of the contribution

### 6.3.0 In Principle Agreed CRs

### 6.3.1 Other

## 6.4 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))

Tdoc Limitation: 1 tdoc

### 6.2.0 In Principle Agreed CRs

### 6.4.1 Other

A single CR per TS (RRC, LPP, MAC, UEcap 306) with miscellaneous corrections is encouraged. Small editorial corrections should be sent directly to the CR rapporteur. Larger open issues can be discussed with contributions (limited time).

Including outcome of [Post123bis][402][POS] BDS B1C corrections (CATT)

## 6.5 SON MDT

(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))

Tdoc Limitation: 2 tdocs

### 6.5.0 In Principle Agreed CRs

### 6.5.1 SON Corrections

### 6.5.2 MDT Corrections

## 6.6 NR Sidelink enhancements

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

Tdoc Limitation: 1 tdoc

Note for RRC and MAC CRs, CR rapporteur’s summary and suggestion may be provided. CR rapporteurs will take care of miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company first for small changes (e.g. non-controversial clarification/correction, editorial correction, etc.).

### 6.6.0 In Principle Agreed CRs

### 6.6.1 Other

# 7 Rel-18

## 7.0 Common

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

### 7.0.1 UE Capabilites

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

### 7.0.2 CCCH LCID extension

Tdoc limitation: 1

Contributions should focus on further details related to general CCCH LCID extension solution (e.g. cross-WI), including explicit indication from RRC to enable the feature.

MAC CR (Samsung) and RRC CR (CMCC) expected as input.

### 7.0.3 Other

## 7.1 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))

Time budget: 0 TU

Essential corrections only. For smaller corrections please contact CR editor / Rapporteur directly.

### 7.1.1 Endorsed CRs

All the enbdorsed CRs should be submitted to this meeting updated based on the latest specifications.

### 7.1.2 Others

## 7.2 Expanded and improved NR positioning

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

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

### 7.2.1 Organizational

Including incoming LSs and rapporteur inputs.

Including, for each affected spec:

* Updated running CR
* List of open issues to be addressed by company contributions
* (where applicable) CR rapporteur input with proposals for stage-3 issues (e.g., signalling details, parameter values/ranges) where company contributrions should be avoided

Including report of [Post123bis][407][POS] Rel-18 positioning capabilities (Xiaomi)

### 7.2.2 Sidelink positioning

Positioning architecture and unicast signalling procedures (e.g. configuration, measurement reporting, etc) to enable session-based sidelink positioning for a single target UE. Including measurements to enable RTT-based positioning, SL-AoA, and SL-TDOA; signalling and associated UE behaviour for support of unicast, groupcast (not including many-to-one) and broadcast of SL-PRS transmissions; reporting signalling and procedures to facilitate support of SL positioning between UEs and between UEs and LMF (the latter for in-coverage scenarios only and including joint PC5-Uu scenarios, and with the assumption that all UEs are served by the same LMF); and signalling to NG-RAN for SL positioning and service authorization as needed. No work on procedures for synchronization of the anchor UEs for SL-TDOA.

Companies are requested not to contribute documents on SLPP forwarding or discovery metafield contents. The corresponding email discussions will be treated under this agenda item.

Including report of [Post123bis][404][POS] SLPP forwarding (Intel)

Including report of [Post123bis][405][POS] Sidelink positioning discovery metafield (vivo)

### 7.2.3 RAT-dependent integrity

Error modelling parameters, signalling, and procedures to support UE-based and LMF-based integrity of RAT-dependent positioning methods.

### 7.2.4 LPHAP

Enhancements for enabling LPHAP use case 6 (TS 22.104), including extending eDRX cycle (coordinated with RedCap WI); SRS configuration enhancements based on validity area for UEs in RRC\_INACTIVE; DL-PRS measurements in RRC\_IDLE and reporting in RRC\_CONNECTED; and alignment between eDRX and PRS configurations.

### 7.2.5 RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning

RAN1 led objectives that may require progress in RAN1 before RAN2 can take decisions.

## 7.3 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))

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.3.1 Organizational

LS, workplan, email discussion etc

Expected inputs: running CRs for the following: 38.300 [Ericsson], 38.331 [Huawei], 38.321 [InterDigital], 38.304 [Apple], and 38.306 [Vivo]

Spec rapporteurs are expected to submitt additional contribution on open issues to conclude WI by December

*Including outcome of [POST123bis][21][NES] Running CR 38.331 (Huawei)*

*Including outcome of [POST123bis][22][NES] Running CR 38.321 (InterDigital) [POST123][315][NES]*

*Running CR 38.304 (Apple)*

*Contributions on open issues addressed explicitly by the email discussions 21 and 22, should be avoided*

### 7.3.2 DTX/DRX mechanism

### 7.3.3 SSB-less Scell operation

Contributions on inter-band CA for FR1 and co-located cells

### 7.3.4 Cell selection/re-selection

Contributions mechanisms to prevent legacy UEs camping on cells adopting the Rel-18 NES mode

### 7.3.5 Connected mode mobility

Contributions on CHO procedure enhancement(s) in case source/target cell is in NES mode

### 7.3.6 Others

This will be downprioritized

## 7.4 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID: [RP-223520](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223520.zip))

Time budget: 2 TU

Tdoc Limitation: 6 tdocs .

Running CR rapporteurs are encouraged to actively drive CR progress (can e.g. suggest to chair how to treat).

### 7.4.1 Organizational Stage-2 and UE caps

Including LSs and any rapporteur inputs (e.g. work plan, running CRs update for common Running CRs). Including performance impacts, e.g. for LTM and potential elaboration on the components of the LTM latency time line, if needed. Including impacts to and expectations of other groups.

Including outcome of [Post123][054][feMob] Stage-2 Signalling Open Issues and Running CR 37340 (ZTE)

Including RAN2 features and related UE caps. Plese take into account RAN1 and RAN4 features which are handled in Rel-18 common AI 7.0.
Including oter issues, if any

### 7.4.2 L1L2 Triggered Mobility

#### 7.4.2.1 Control Plane and RRC

(WID: Configuration and maintenance for multiple candidate cells to allow fast application of configurations for candidate cells [RAN2, RAN3]).
General LTM discussions (incl all aspects), if needed. RRC impact and solutions, stage-3 oriented: companies are encouraged to illustrate proposals by Text Proposals. Including the RRC LTM running CR. Including the outcome of [Post123][056][feMob] LTM Running CR RRC (Ericsson).

Including
1) R2 centric issues : LTM config and execution (candidate + ref, applying complete config) etc
2) R1-centric issues: e.g. reflecting RRC parameters (CSI, TCI, TA) from RAN1, and decision on the two options on CSI report provided by RAN1.

#### 7.4.2.2 L2 centric parts

General LTM discussions (incl all aspects) where the main issue/discussion point is L2 centric, if needed. Including L2 and MAC impacts (Stage-3 oriented) and remaning issues for dynamic cell switch not addressed by subclause above. Including the MAC Running CR.

### 7.4.3 Subsequent CPAC

Formerly called “NR-DC with selective activation cell of groups”.

### 7.4.4 CHO including target MCG and candidate SCGs for CPC CPA in NR-DC

### 7.4.5 Others

Including contributions on improvement to SCell/SCG setup delay

## 7.5 XR Enhancements for NR

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

Time budget: 2 TU

Tdoc Limitation: 6 Tdocs

### 7.5.1 Organizational

Including LSs, any rapporteur inputs (e.g. work plan, SA2/SA4 progress reports) and running CRs (currently endorsed CRs exist fo Stage-2 (Nokia), MAC (Qualcomm), PDCP (LGE), RRC (Huawei) and RLC (vivo))

*Including outcome of [POST123bis][23][XR] 38.331 Running CR (Huawei)*

*Including outcome of [POST123bis][24][XR] 38.321 Running CR (Qualcomm))*

*Including outcome of [POST123bis][26][XR] 38.323 Running CR (LG)*

*Including outcome of [POST123bis][27][XR] 38.322 Running CR (Vivo)*

*Contributions on open issues addressed explicitly by the email discussions 23, 24, 26 and 27, should be avoided*

### 7.5.2 XR awareness

Including any remaining (i.e. not discussed in email discussion) Stage-3 details of the UAI for XR traffic assistance information from UE to network

### 7.5.3 XR-specific power saving

Including any remaining (i.e. not discussed in email discussion) Stage-3 details

### 7.5.4 XR-specific capacity improvements

No documents should be submitted to 7.5.4. Please submit to 7.5.4.x

#### 7.5.4.1 BSR enhancements for XR

Including discussion on the Stage-3 details of the static BSR table for XR

Including discussion on the Stage-3 details the DSR

#### 7.5.4.2 Discard operation for XR

Including discussion Stage-3 details of discard operation for XR

#### 7.5.4.3 Configured Grant enhancements for XR

Including RAN2-specific aspects of unused and/or multiple configured grant (CG) PUSCH transmission occasions in a period of a single CG PUSCH configuration (UTO-UCI, HARQ process determination, etc.).

### 7.5.5 UE capabilities for XR

Including discussion on remaining open issues on UE capabilities for XR from RAN2 perspective.

## 7.6 IoT NTN enhancements

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

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.6.1 Organizational

LSs, rapporteur inputs and other organizational documents. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

Including, for each affected spec:

* Updated running CR
* List of open issues to be addressed by company contributions
* (where applicable) CR rapporteur input with proposals for stage-3 issues (e.g. signaling details, parameter values/ranges) where company contributrions should be avoided

based on the outcome of:

[Post123bis][301][IoT-NTN Enh] 36.300 running CR (Ericsson)

[Post123bis][302][IoT-NTN Enh] 36.331 running CR (Huawei)

[Post123bis][303][IoT-NTN Enh] 36.321 running CR (Mediatek)

[Post123bis][304][IoT-NTN Enh] 36.304 running CR (Nokia)

[Post123bis][305][IoT-NTN Enh] 36.306 running CR (Qualcomm)

### 7.6.2 Performance Enhancements

#### 7.6.2.1 HARQ enhancements

#### 7.6.2.2 GNSS operation enhancements

### 7.6.3 Mobility Enhancements

#### 7.6.3.1 Enhancements for neighbour cell measurements

#### 7.6.3.2 Other

### 7.6.4 Enhancements to discontinuous coverage

## 7.7 NR NTN enhancements

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

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 7.7.1 Organizational

LSs, rapporteur inputs and other organizational documents. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

Including, for each affected spec:

* Updated running CR
* List of open issues to be addressed by company contributions
* (where applicable) CR rapporteur input with proposals for stage-3 issues (e.g. signaling details, parameter values/ranges) where company contributrions should be avoided

based on the outcome of:

[Post123bis][306][NR-NTN Enh] 38.300 running CR (Thales)

[Post123bis][307][NR-NTN Enh] 38.331 running CR (Ericsson)

[Post123bis][308][NR-NTN Enh] 38.321 running CR (Interdigital)

[Post123bis][309][NR-NTN Enh] 38.304 running CR (ZTE)

[Post123bis][310][NR-NTN Enh] EU caps running CRs (Intel)

[Post123bis][311][NR-NTN Enh] 37.355 running CR (CATT)

### 7.7.2 Coverage Enhancements

### 7.7.3 Network verified UE location

### 7.7.4 NTN-TN and NTN-NTN mobility and service continuity enhancements

#### 7.7.4.1 Cell reselection enhancements

#### 7.7.4.2 Connected mode enhancements

##### 7.7.4.2.1 Handover enhancements

##### 7.7.4.2.2 Unchanged PCI satellite switch

Including report of [Post123bis][312][NR-NTN Enh] Unchanged PCI (CMCC/Apple). Company contributions on aspects handled in [Post123bis][312] might be down-prioritized.

## 7.8 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) )

Time budget: 1 TU

Tdoc Limitation: 3

### 7.8.1 Organizational

Stage 2 running CR expected as input to this meeting

Expected input: Running CRs for 38.331 (Qualcomm), 38.300 (Nokia)

Expected input after capability discussions: 38.306 and 36.306 (Huawei)

Including outcome of [POST123bis][025][UAV] Running CR 38.331 (Qualcomm)

*Contributions on open issues addressed explicitly by the email discussions 25 should be avoided*

### 7.8.2 Measurement reporting for mobility and interference control

Contributions should focus on further details related enhancement to measurement reports taking into account agreements made in previous meetings

### 7.8.3 Flight path reporting

*Contributions on stage-3 detailes (not discussed in email discussion) reltaed to flight path reporting*

### 7.8.4 Subscription-based aerial-UE identification

This AI will not be treated and no contributions are expected, as no further NR enhancements will be pursued.

### 7.8.5 UAV identification broadcast

Contributions should focs on stage-3 detailes related to UAV identification broadcast using PC5-U.

## 7.9 Enhanced NR Sidelink Relay

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

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

### 7.9.1 Organizational

Including incoming LSs and rapporteur inputs.

Including, for each affected spec:

* Updated running CR
* List of open issues to be addressed by company contributions
* (where applicable) CR rapporteur input with proposals for stage-3 issues (e.g., signalling details, parameter values/ranges) where company contributrions should be avoided

Including outcome of [Post123bis][420][Relay] Rel-18 relay MAC identified open issues (Apple)

### 7.9.2 UE-to-UE relay

Single-hop Layer-2 and Layer-3 UE-to-UE relay for unicast. Including common L2/L3 functionality comprising relay discovery and (re)selection and L2-specific functionality including adaptation layer design, control plane procedures, and QoS handling if needed.

### 7.9.3 Service continuity enhancements for L2 UE-to-network relay

Inter-gNB direct/indirect path switching; intra-gNB indirect/indirect path switching; and inter-gNB indirect/indirect path switching, to be supported by reuse of solutions for the other scenarios.

### 7.9.4 Multi-path relaying

Mechanisms to support multi-path scenarios where a UE is connected to the same gNB using one direct path and one indirect path via 1) Layer-2 UE-to-Network relay, or 2) via another UE (where the UE-UE inter-connection is assumed to be ideal).

### 7.9.5 DRX

Study the gains and, if needed, specify signalling between gNB and relay UE in sidelink mode 2 to assist the determination of the sidelink DRX configuration used for remote UE. This agenda item will be handled at lower priority.

## 7.10 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))

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

Corrections. For smaller corrections please contact CR editor / Rapporteur directly.

### 7.10.1 In Principle Agreed CRs

In Principle Agreed CRs: 38.300 [Huawei], 38.331 [Xiaomi], 37.340 [ZTE], and capability CRs [Intel] should be updated based on the latest specifications.

### 7.10.2 Others

## 7.11 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))

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

**NOTE: Focus will be on the critical open issues from the open issue list(s).**

**NOTE: Apsects covered directly in CR update/open issues e-mail discussions should not be discussed in companies contributions.**

### 7.11.1 Organizational

LS in, rapporteur input, running CRs, open issues list etc.

Including outcome of [Post123bis][610][eMBS] 38.300 CR update and open issues (CMCC)

Including outcome of [Post123bis][611][eMBS] 38.331 CR update and open issues (Huawei)

Including outcome of [Post123bis][612][eMBS] 38.321 CR update and open issues (Apple)

Including outcome of [Post123bis][613][eMBS] 38.323 CR update and open issues (Xiaomi)

Including outcome of [Post123bis][614][eMBS] UE capabilities CRs update and open issues (vivo)

Including outcome of [Post123bis][615][eMBS] 38.304 CR (CATT)

### 7.11.2 Multicast reception in RRC\_INACTIVE

Papers should not be submitted to 7.11.2, please use 7.11.2.1 or 7.11.2.2 instead.

#### 7.11.2.1 Control plane

Remaining stage-3 details for CP aspects of Multicast reception in RRC\_INACTIVE (e.g. is anything needed to ensure MRB continuation, co-existence between multicast reception in INACTIVE and SDT).

#### 7.11.2.2 User plane

Remaining stage-3 details for UP aspects of Multicast reception in RRC\_INACTIVE (e.g. MAC operation, CFR configuration).

### 7.11.3 Shared processing for MBS broadcast and Unicast reception

Remaining stage-3 details for shared processing, if any.

Remaining aspects of UE capabilities (for both multicast reception in Inactive and shared processing).

## 7.12 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))

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

### 7.12.1 Organizational

Ls in Rapporteur input, running CRs etc

### 7.12.2 Mobility Enhancements

Enhancements for mobility of an IAB-node together with its served UEs.. [RAN3, RAN2]

#### 7.12.2.1 Connected mode

##### 7.12.2.1.1 Reuse of NR NTN RACH-less Handover

Tdoc Limitation: 0

Reuse of NR NTN RACH-less handover is assumed. Modifications of or difference in procedure specifically for mIAB need to be determined (mIAB-specifics only when/if there is a need). There will be offline reivews to assess potential impacts etc. CR rapporteurs (MAC: Samsung, RRC: Ericsson, UE capabilities: Nokia, Stage-2: QC) are encouraged to work with their NR NTN coutnerparts and are invited to input on the potenital TS impacts, and CR strategies (e.g. CR common mIAB/NR NTN, or mIAB CR copy-paste from NR NTN CR etc), and otther aspects as needed. Others are expected to input at the meeting.

##### 7.12.2.1.2 Other

Including Open Issues (identification of, resolution to), if any. Stage-3 progress (pl illustrate with TPs. Please see Running CRs.

Chair: On new (not-yet-agreed) proposals, there has previously been some interest for time-based CHO (which can be discussed one more round). Other new (not-yet-agreed) proposals, are not expected to be treated.

#### 7.12.2.2 Idle/Inactive mode

Including Open Issues (identification of, resolution to), if any. Stage-3 progress (pl illustrate with TPs). Please See Running CRs.

### 7.12.3 Other

Procedures for migration/topology adaptation to enable IAB-node mobility [RAN3, RAN2].

Mitigation of interference due to IAB-node mobility. [RAN3, RAN2]. Note that on PCI collision, RAN2 agreed that further work on this matter would be based on LS by RAN3. Note that on RACH interference and collisions RAN2 agreed that this better be handled between RAN3 and RAN1. Chair: THUS it is not clear whether any interference-mitigation paper would be treated without LS.
Including UE capabilites. Including outcome of [Post123][051][mIAB] Running CRs UE caps (Nokia).

## 7.13 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))

Includes LS in’s related to AI/ML for NG-RAN

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

### 7.13.1 Organizational

Ls in Rapporteur input.

### 7.13.2 MRO for inter-system handover for voice fallback

### 7.13.3 MDT override

### 7.13.4 SHR and SPCR

### 7.13.5 SON for NR-U

Focus on UE impacts. RAN2/RAN3 progress should be considered.

### 7.13.6 RACH enhancement

### 7.13.7 SON/MDT enhancements for Non-Public Networks

### 7.13.8 Other

## 7.14 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))

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

**NOTE: Focus will be on the critical open issues from the open issue list(s).**

**NOTE: Apsects covered directly in CR update/open issues e-mail discussions should not be discussed in companies contributions.**

### 7.14.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, running CRs, open issues list)

### 7.14.2 QoE measurements in RRC\_IDLE INACTIVE

Including remaining details of area scope handling for MBS QoE, QoE configuration storing and retrieval at/from the UE, AS layer signalling details.

Including any new impact stemming from RAN3 agreements.

### 7.14.3 Support of QoE measurements for NR-DC

Remaining RAN2 aspects of QoE support in NR-DC, including any new impact stemming from RAN3 agreements.

### 7.14.4 UE capabilities and other topics

Including discussion on the remaining RAN2 impacts of continuity of legacy QoE measurement job for streaming and MTSI service during intra-5GC inter-RAT handover process, if any.

Including the discussion on the remaining RAN2 impact of Rel-17 left-over topics, if any.

Including discussion on the remaining UE capability aspects of the QoE WI.

## 7.15 NR Sidelink evolution

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

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 7.15.1 Organizational

Includes Incoming LS, WI rapporteur inputs (including a list of critical functional level open issues for WI completion. Note functions that are good to have but not essential are not considered as critical open issues for WI completion), and stage-2 and stage-3 running CRs from the assigned CR rapporteurs. Detailed RRC/MAC/PDCP/UE Capability stage 3 issue list (with the rapporteur suggestion) by CR rapporteurs may be provided.

### 7.15.2 Open issues

Includes [POST123bis][113], confirmation of working assumptions, etc., based on essential open issue list provided by WI rapporteur.

### 7.15.3 Control plane

Includes further clarifications/changes based on running CRs, other RRC/Capability detailed stage 3 issues, e.g. based on open issue list provided by RRC/Capability CR rapporteur.

### 7.15.4 User plane

Includes further clarifications/changes based on running CRs, other MAC/PDCP detailed stage 3 issues, e.g. based on open issue list provided by MAC/PDCP CR rapporteur.

## 7.16 Artificial Intelligence Machine Learning for NR air interface

(FS\_NR\_AIML\_air; leading WG: RAN1; REL-18; WID:[RP-221348](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221348.zip))

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Aspects of on-line/real-time training are deprioritized.

NOTE RAN1 parts of the TR SHALL be used as baseline for RAN2 discussions. There is NO need to rediscuss in / input to RAN2 parts that has already been agreed in RAN1.

Contributions should have proposed TPs

### 7.16.1 Organizational

LS ins. Rapporteur input, e.g.

RAN2 input to the TR.

*Including outcome of [POST123bis][017][AI/ML] TP update (Ericsson)*

### 7.16.2 AIML methods

Explore AIML methods that are expected applicable to this SI and their expected or potential architecture (allocation of functionality to entities), Identification aspects, other framework aspects, impact on RAN2. Most of LCM is in RAN2 scope.

Both general aspects and use-cases specific aspects are applicable (for use cases in scope). . Please input to 7.16.2.x

#### 7.16.2.1 Architecture and General

Mapping of Functionality to entities, general aspects.

#### 7.16.2.2 Data Collection

Postpone evaluation discussion unitil RAN1 reply is received. Can continue to discussion Open issues.

Mapping of functionality to entities, for Data collection (i.e. do we use the existing data collection frameworks as is or what modifications do we expect, any aspects that is not covered that may be important?)

#### 7.16.2.3 Control and LCM other

AIML control and LCM (including Model Transfer / Delivery) beyond / other than Data Collection,..

Including outcome of [POST123bis][016][AI/ML] Model transfer (Intel)

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

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

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 7.17.1 Organizational

Rapporteur input (e.g., work plan, remaining open issue list), incoming LS etc.

Latest version running CRs submitted by the spec editors.

### 7.17.2 Procedures and signalling for MUSIM temporary capability restriction

Remaining aspects for the “proactive” and “reactive” procedures

Remaining signaling design details for the temporary capability restrictions.

Including email report of long email discussion [205].

Contributions on open issues addressed explicitly by the email discussion [205], should be avioded

### 7.17.3 Other

Other remaining aspects if not covered by the previous agenda items, including e.g., aspects related to the RAN4 agreements/reqeusts, if any, and UE capabilit(ies) for the MU-SIM feature(s).

## 7.18 Mobile Terminated Small Data Transmission

(NR\_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))

Time budget: 0 TU

Tdoc Limitation: 2 tdoc

### 7.18.1 Organizational

*Running CRs expected as input in this meeting: 38.300 (Nokia), 38.331 (ZTE), 38.321 (Huawei),* 38.306 (Intel).

*Including outcome of [POST123][303][MT-SDT] CR to 38.306 (Intel)*

### 7.18.2 Control plane aspects

Critical corrections only

### 7.18.3 User plane aspects

Critical corrections only

## 7.19  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))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

### 7.19.1   Organizational

Incoming LSs, running CRs, etc.

### 7.19.2   Enhanced eDRX in RRC\_INACTIVE

Remaining details, if any.

### 7.19.3   Further reduced UE complexity in FR1

*Remaining details, if any.*

## 7.20 NR MIMO evolution

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

Time budget: 0.75 TU

Tdoc Limitation: 3 tdoc

### 7.20.1   Organizational

Rapporteur input (e.g., work plan, open issue list), incoming LS etc.

Latest verison of running CRs submitted by the spec rapporteurs.

Including report from long email discussion [203] and [204].

### 7.20.2   Two TAs for multi-DCI multi-TRP

Remaining open issues on two TAs for multi-DCI multi-TRP operation

Contributions on open issues addressed explicitly by the email discussion [203] and [204], should be avioded.

### 7.20.3   Other

Other issues if not covered by the previous agenda items, including e.g., unified TCI extension to mTRP operation, etc..

Contributions on open issues addressed explicitly by the email discussion [203] and [204], should be avioded.

## 7.21 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))

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

### 7.21.1   Organizational

Incoming LSs, Rapporteur input etc, including reports from [Post123bis][851] and [Post123bis][853].

### 7.21.2   Control plane issues

Details of RACH configuration and RACH partitioning signalling and any other impacts to CP from RAN1 agreements.

### 7.21.3   User plane issues

Overall RACH procedure and any other MAC impacts

## 7.22 Study on low-power wake-up signal and receiver for NR

(FS\_NR\_LPWUS; leading WG: RAN1; REL-18; WID: [RP-232672](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232672.zip))

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

### 7.22.1   Organizational

Incoming LSs, Rapporteur input etc.

### 7.22.2   Idle Inactive Mode

### 7.22.3   Connected Mode

## 7.23 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))

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

### 7.23.1   Organizational

Incoming LSs, Rapporteur input etc.

Expected inputs to next meeting, running CRs for the following: 38.300 [Nokia], 38.331 [Ericsson],

### *Including outcome of [POST123bis][012][URLLC] 38.331 Running CR (Ericsson)*7.23.2   General

## *Remaining stage 3 details.* 7.24 TEI18

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

Time budget: 1 TU

### 7.24.1 TEI proposals by Other Groups

Items initiated by other groups that is/has been communicated by LS, where the other group indicate this is TEI18. (Specific other-group-WIs should use the R18 Other Agenda Item below).

Including outcome of [AT123bis][018][CG-SDT TEI18] LS to RAN1 (Ericsson)

### 7.24.2 TEI proposals by RAN2

Items initiated in RAN2 for NR and LTE.

Tdoc limitation: 1 tdoc, limitation only applicable for non-previously-agreed-to-be-considered TEI proposals.
proposals that has been agreed or agreed to be considered are not limited by the tdoc limitation.

Including outcome of [Post123bis][403][POS] BT AoA/AoD (Ericsson)

## 7.25 R18 Other

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

Impacts from Other RAN WGs and TSGs that has no separate TU budget in RAN2. LS ins for Rel-18 specific WIs/SIs that has no RAN WI.

Time budget: 2 TU

Tdoc Limitation: -

### 7.25.1 RAN4 led items

#### 7.25.1.1 Lower MSD capability

*Including outcome of [AT123bis][09][MSD capability] LS to RAN4 (Qualcom)*

#### 7.25.1.2 Intra-band non-collocated NR-CA. EN-DC

#### 7.25.1.3 TCI State Switch indication for HST

*Including outcome of [POST123bis][011][Cross-RRH] Running CR 38.321 (Ericsson)*

#### 7.25.1.4 FR2 Multi Rx operation

#### 7.25.1.5 FR2 SCell Enhancements

*Including outcome of [POST123bis][020][SCell Activation] Review Running CR (Apple)*

#### 7.25.1.6 ATG

#### 7.25.1.6 Other

*Including BWP operation without restrictions, measurement gaps, etc*

*Including outcome of [POST123bis][007][BWP switching] (Vivo)*

### 7.25.2 RAN1 led items

E.g. UL Tx Switching, MC enhancements, DSS

Including outcome of [POST123bis][008][UL TX Switch] Review updated running CR 38.331 (Huawei)

### 7.25.3 Other

RAN3, SA2, SA3, CT1 led items and others, e.g. eNPN, Slicing.

#### 7.25.4 Self-Evaluation NTN

(FS\_IMT-2020\_Sat\_eval; leading Group: TSG RAN; REL-18; WID: [RP-230736](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230736.zip))

This will be treated in NTN breakout session (Sergio).

Study on Self-Evaluation towards the 3GPP submission of a IMT-2020 Satellite Radio Interface Technology, including both NR NTN and IoT-NTN. Note that the time allocated will be very limited, and this is expected to be mostly an offline activity.

* [POST123bis][007][BWP switching] Running CRs (Vivo)

 Intended outcome: Review running CRs 38.300 and 38.331 to be endorsed in meeting

 Deadline: Long

* [POST123bis][008][UL TX Switch] 38.331 Running CR (Huawei)

 Intended outcome: Review updated running CR to be endorsed in meeting

 Deadline: Long

* [POST123bis][011][Cross-RRH] 38.321 Running CR (Ericsson)

 Intended outcome: Review running CR to be endorsed in meeting

 Deadline: Long

* [POST123bis][012][URLLC] 38.331 Running CR (Ericsson)

 Intended outcome: endorse running CR

 Deadline: two weeks

* [POST123bis][017][AI/ML] TP update (Ericsson)

Scope: Review updated TP capturing all agreements up to RAN2#123bis.

 Intended outcome: Endorsed TP

 Deadline: Long email

* [POST123bis][016][AI/ML] Model transfer (Intel)

Scope: Discuss table that captures pros, cons and specification efforts for the 4 solutions.

 Intended outcome: Agreeable proposal/table

 Deadline: Long email

* [POST123bis][020][SCell Activation] Running CR (Apple)

 Intended outcome: Review running CR to be endorsed in meeting

 Deadline: Long

* [POST123bis][21][NES] 38.331 Running CR (Huawei)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus more detailed open issues that would help with CR finalisation.

 Deadline: long

* [POST123bis][22][NES] 38.321 Running CR (Interdigital)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus on more detailed open issues that would help with CR finalisation.

 Deadline: long

* [POST123bis][23][XR] 38.331 Running CR (Huawei)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus more detailed open issues that would help with CR finalisation.

 Deadline: long

* [POST123bis][24][XR] 38.321 Running CR (Qualcomm)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus on more detailed open issues that would help with CR finalisation only ).

 Deadline: long

* [POST123bis][25][UAV] 38.331 Running CR (Qualcomm)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus on more detailed open issues that would help with CR finalisation.

 Deadline: long

* [POST123bis][26][XR] 38.323 Running CR (LG)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus on more detailed open issues that would help with CR finalisation).

 Deadline: long

* [POST123bis][27][XR] 38.322 Running CR (Vivo)

Scope:

- Review running CR

- Identify open issues

- Get inputs for subset of open issues (focus on more detailed open issues that would help with CR finalisation).

 Deadline: long