3GPP TSG-RAN WG2 Meeting #113 electronic R2-2xxxxxx

**Online, Jan 25 – Feb 5, 2021**

Source: RAN2 Chairman (Mediatek)

Title: Agenda

General

This meeting is electronic and has full decision power, i.e. full decision power to make agreements and approvals according to RAN WG2 terms of reference, without any need to ratify decisions at a later RAN2 or other meeting.

Specific methodology

This meeting is conducted by email, ftp and by on-line web conferences by GoToWebinar + Torhu, in three parallel sessions.

R16 raising the bar

For Rel-16 there should now be smaller and smaller efforts spent on text enhancements. Only essential corrections should be agreed. To still allow some text enhancements, pre-coordination is requested (see below).

Tdoc Limitation

Tdoc Limitation limits the number of allowed input tdocs for a company as indicated for an Agenda Item for all types of documents. A multi-sourced document is counted towards the limit of the first company. Rapporteur input (email discussion, WI rapporteur, TS rapporteur, assigned CR editor, assigned summary rapporteur etc) and at-meeting decided tdocs, revisions etc, do not count towards a tdoc limitation. For an LS to RAN2 with action, the contact company is allowed one document that doesn’t count towards the tdoc limitation.

Note that there is now a tdoc limitation for NR R16 (See agenda item 6). Each document is counted, so it is recommended to not have both a CR and a discussion tdoc (e.g. skip the discussion doc). It is also possible to attach draft CRs as appendix to a discussion doc.

Rel-16 text enhancements and miscellaneous corrections CRs

Rapporteurs are asked to, if needed, be ready to prepare (at the meeting) a miscellaneous corrections CR for their WI/TS. Companies shall coordinate with the Rapporteur for small changes, clarifications, text enhancements etc. The Rapporteur is asked to develop an opinion on the need for the particular change. Text enhancements (no behavioural change) with no support from the Rapporteur might not be treated.

In this context the Rapporteur for a TS for a WI = Editor of the Rel-16 WI Cat B CRs (or other person assigned by the session chair when applicable).

**Rel-16 NR UE capabilities**

Corrections to R16 NR UE capabilities are in a common session under Agenda item 6.1.2. There may be exceptions, e.g. for WIs that may require substantial discussions. Tdocs will be reallocated between Agenda Items if needed (as usual).

# 1 Opening of the meeting

## 1.1 Call for IPR

## 1.2 Network usage conditions

## 1.3 Other

# 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 Others

# 3 Incoming liaisons

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

# 4 EUTRA corrections Rel-15 and earlier

See Appendix A for reference to Work items, work item codes and WIDs.

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

## 4.1 NB-IoT corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session. Common NB-IoT/eMTC parts treated jointly with 4.2. No web conference is planned for this agenda item

## 4.2 eMTC corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session. Common NB-IoT/eMTC parts treated jointly with 4.1. No web conference is planned for this agenda item.

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

Documents in this agenda item will be handled in a break out session.

## 4.4 Positioning corrections Rel-15 and earlier

Documents in this agenda item will be handled by email. No web conference is planned for this agenda item.

## 4.5 Other LTE corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session.

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

*Including discussion on whether MAC reset also flushes recommended bit rate query (postponed in RAN2#112, see* [*R2-2010153*](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010153.zip)*,* [*R2-2010154*](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010154.zip)*,* [*R2-2010155*](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010155.zip)*)*

*Including discussion on inter-node signalling field conditions for resume and re-establishemnt (postponed in RAN2#112, see* [*R2-2009257*](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2009257.zip) *and* [*R2-2009258*](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2009258.zip)*)*

# 5 Rel-15 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: [RP-191971](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_85%5CDocs%5CRP-191971.zip))

Only essential corrections. Includes all R15 NR drops and architectures.

## 5.1 Organisational

Incoming LSs, etc.

## 5.2 Stage 2 corrections

You should discuss your stage 2 CRs with the specification rapporteurs before submission.

### 5.2.1 TS 3x.300

### 5.2.2 TS 37.340

## 5.3 Stage 3 user plane corrections

### 5.3.1 MAC

### 5.3.2 RLC

### 5.3.3 PDCP

### 5.3.4 SDAP

## 5.4 Stage 3 control plane corrections

### 5.4.1 NR RRC

#### 5.4.1.1 Connection control

Including L1 Parameters, L2 Parameters, Connection establishment and release, Connection reconfiguration (also reconfig with sync, Handover), Connection resume and release with RRC\_INACTIVE state, Security procedures, re-establishment, RRC processing delay requirements etc.

#### 5.4.1.2 RRM and Measurements and Measurement Coordination

#### 5.4.1.3 System information

#### 5.4.1.4 Inter-Node RRC messages

#### 5.4.1.5 Other

### 5.4.2 LTE changes related to NR

### 5.4.3 UE capabilities and Capability Coordination

### 5.4.4 Idle/inactive mode procedures

This agenda item addresses the idle and inactive behaviour specified in 38.304 or 36.304. Other aspects related to inactive (e.g. state transitions, out of coverage, etc) are covered under RRC agenda items (5.4.1.x)

## 5.5 Positioning corrections

Corrections to both the stage 2 and stage 3 aspects related to positioning. Stage 2 CRs should be discussed with the specification rapporteur before submission.

Documents in this agenda item will be handled in a break out session.

# 6 Rel-16 NR Work Items

Essential corrections. While high maintenance intensity is expected, Rel-16 corrections are treated separately per WI.

Tdoc Limitation: 40 tdocs in total for all sub agenda items, or the restriction for each sub-AI, whichever is more restrictive.

## 6.1 Rel-16 General

Tdoc Limitation: See tdoc limitation for Agenda Item 6

### 6.1.1 General RRC corrections

Corrections that do not fit well elsewhere in the agenda, e.g. cross-WI.

### 6.1.2 NR Feature Lists and UE capabilities

Includes NR UE capability updates related to R1 and R4 feature lists. V2X and Mobility capabilities are handled separately under the V2X WI.

### 6.1.3 Other

Other issue that do not fit under any other topic.

## 6.2 Integrated Access and Backhaul

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: [RP-200840](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-200840.zip))

Tdoc Limitation: 8 tdocs, See also tdoc limitation for Agenda Item 6

### 6.2.1 General and Stage-2 Corrections

Incoming LS. 38300 36300 (QC) 37340 (HW)

### 6.2.2 BAP Corrections

38340 (HW)

### 6.2.3 User plane Corrections

38321 (Samsung)

### 6.2.4 RRC Corrections

38331 36331 (Ericsson)

### 6.2.5 UE capabilities

Including corrections and remaining open issues if any on RAN2 capabilities and minimum capabilities of IAB MT. The adoption of R1 and R4 updated feature lists is handled under 6.1.

## 6.3 NR-based Access to Unlicensed Spectrum

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; Closed June 20; WID: [RP-192](file:///C%3A%5CData%5C3GPP%5CExtracts%5CRP-191575%20Revised%20WID%20NR-U.doc)926). Documents in this agenda item will be handled in a break out session.).

Tdoc Limitation: 4 tdocs. See also tdoc limitation for Agenda Item 6

### 6.3.1   General and Stage-2 Corrections

Including incoming LSs, Wi or TS rapporteur inputs, etc.

### 6.3.2 User plane

### 6.3.3 Control plane

## 6.4 NR V2X

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Aug 20; WID: [RP-](file:///C%3A%5CData%5C3GPP%5CTSGR%5CTSGR_84%5Cdocs%5CRP-190984.zip)200129).

Documents in this agenda item will be handled in a break out session

Tdoc Limitation: 9 tdocs. See also tdoc limitation for Agenda Item 6

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.).

### 6.4.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc.

### 6.4.2 Control plane corrections

This agenda item may utilize a summary document on RRC (Huawei).

### 6.4.3 User plane corrections

Including [POST112-e][701][V2X] RAN1 related discussion (OPPO). This agenda item may utilize a summary document on MAC (LG).

### 6.4.4 UE capabilities

 This agenda item may utilize a summary document (OPPO).

## 6.5 NR Industrial Internet of Things (IoT)

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; Completed: Jun 20; WID: [RP-200797](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-200797.zip))

 Tdoc Limitation: 4 tdocs. See also tdoc limitation for Agenda Item 6

### 6.5.1 General and Stage-2 corrections

Incoming LS etc.

### 6.5.2 RRC Corrections

### 6.5.3 MAC Corrections

### 6.5.4 PDCP Corrections

## 6.6 NR Positioning Support

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: [RP-](file:///C%3A%5CData%5C3GPP%5CTSGR%5CTSGR_84%5Cdocs%5CRP-191156.zip)200218).

(NR TEI16 Positioning)

Documents in this agenda item will be handled in a break out session

Tdoc Limitation: 9 tdocs, See also tdoc limitation for Agenda Item 6

### 6.6.1 General and Stage 2 corrections

Including incoming LSs, 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.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

### 6.6.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

### 6.6.3 LPP corrections

This agenda item may use a summary document (decision to be made based on submitted tdocs).

### 6.6.4 MAC corrections

## 6.7 NR mobility enhancements

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: RP-192277).

Documents in this agenda item will be handled in a break out session).

Documents under 6.7 will be treated together with documents in 7.4.

No documents should be submitted to 6.7. Please submit to 6.7.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

NR DAPS corrections should be submitted to 7.4.2.

Tdoc Limitation: See tdoc limitation for Agenda Item 6

### 6.7.1 General and Stage-2 Corrections

Including incoming LSs (if any).

Including corrections to TS38.300 and 37.340 related to the NR CPC, NR CHO and NR DAPS

### 6.7.2 Conditional PSCell change for intra-SN and Conditional handover related corrections

This AI addresses NR CPC and corrections to NR/LTE CHO (i.e. both NR and LTE-specific corrections for CHO should be submitted here).

Including corrections to control and user plane specifications (e.g. 3x.331, 3x.323, 3x.321) for CPC and CHO.

Including outcome of [Post112-e][254][R16 MOB] Issue on failure handling of handover without key change for the UE configured with attemptCondReconfig (Sharp)

Including discussion on repetition of UE information transmission in NR/LTE CHO (postponed in RAN2#112e, see [R2-2010253](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010253.zip), [R2-2010251](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010251.zip), [R2-2010254](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010254.zip), [R2-2010252](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010252.zip))

Including discussion on UE compliance check failure for CHO command (postponed in RAN2#112e, see [R2-2009998](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2009998.zip))

Including discussion on SI reading during CHO recovery (postponed in RAN2#112e, see [R2-2010189](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_112-e/Docs/R2-2010189.zip))

Including discussion on whether CHO is supported for eLTE.

### 6.7.3 UE capability corrections

Including UE capability aspects of NR mobility WI (i.e. UE capability corrections to 38.331 and 38.306).

Including corrections based on outcome of "[AT1112e][ 215][NR][MOB] Additional clarification to DAPS capabilities (Nokia)" that were postponed in RAN2#112e (e.g. dummification of field intraFreqMultiUL-TransmissionDAPS from intraFreqDAPS-UL)

## 6.8 DC and CA enhancements

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Target Aug 20; WI [RP-200791](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-200791.zip))

No documents should be submitted to 6.8. Please submit to 6.8.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Tdoc Limitation: 9 tdocs, See also tdoc limitation for Agenda Item 6

### 6.8.1 General and Stage-2 Corrections

Including incoming LSs.

Including corrections to TS38.300, 36.300 and 37.340 related to DCCA.

### 6.8.2 Corrections to Fast Scell activation and Early measurement reporting

Including corrections to TS38.331, 36.331 and 38.321 related to Fast SCell activation and Early measurement reporting.

### 6.8.3 Other DCCA corrections

Including UE capability corrections, NR-NR DC, MCG SCell and SCG configuration with RRC resume, Fast MCG link recovery, and corrections that don’t fit under the other headings.

Including outcome of [Post112-e][255][R16 DCCA] Cell grouping for synchronous NR-DC (Ericsson)

## 6.9 UE Power Saving in NR

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; Completed Jun 20; WID: [RP-200494](file:///C%3A%5CData%5C3GPP%5CTSGR%5CTSGR_84%5Cdocs%5CRP-191607.zip)).

Tdoc Limitation: 4 tdocs. See also tdoc limitation for Agenda Item 6

### 6.9.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc

### 6.9.2 User plane Corrections

### 6.9.3 Control plane Corrections

## 6.10 SON/MDT support for NR

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; Completed June 20; WID: RP-191776).

Documents in this agenda item will be handled in a break out session

Tdoc Limitation: 9 tdocs. See also tdoc limitation for Agenda Item 6

### 6.10.1 General and stage-2 corrections

*Including incoming LSs, TS 37.320 corrections*

### 6.10.2 TS 38.314 corrections

### 6.10.3 RRC corrections

## 6.11 2-step RACH for NR

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; Completed: June 20; WID: [RP-](file:///C%3A%5CData%5C3GPP%5CExtracts%5CRP-190711%20Revised%20work%20item%20proposal%202%20step%20RACH%20for%20NR.docx)200085).

Tdoc Limitation: 4 tdocs, See also tdoc limitation for Agenda Item 6

### 6.11.1 General and Stage-2 Corrections

### 6.11.2 User plane corrections

### 6.11.3 Control plane corrections

## 6.12 NR Other Control Plane WIs

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: [RP-190713](file:///C%3A%5CData%5C3GPP%5Carchive%5CRAN%5CRAN%2383%5CTdocs%5CRP-190713.zip))

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: [RP-191088](file:///C%3A%5CData%5C3GPP%5Carchive%5CRAN%5CRAN%2384%5CTdocs%5CRP-191088.zip))

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: [RP-](file:///C%3A%5CData%5C3GPP%5Carchive%5CRAN%5CRAN%2384%5CTdocs%5CRP-191563.zip)200122)

Documents in this agenda item will be handled in a break out session

Tdoc Limitation: See tdoc limitation for Agenda Item 6

## 6.14 NR Other R1 WIs

 (NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: [RP-191997](file:///C%3A%5CData%5C3GPP%5Carchive%5CRAN%5CRAN%2385%5CTdocs%5CRP-191997.zip);)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: [RP-1915](file:///C%3A%5CData%5C3GPP%5CTSGR%5CTSGR_84%5Cdocs%5CRP-191563.zip)84)

(R1 Led NR TEI16, Other R1 led items)

Documents in this agenda item will be handled in a break out session

Tdoc Limitation: See tdoc limitation for Agenda Item 6

### 6.14.1 User plane corrections

### 6.14.2 Control plane corrections

## 6.15 NR Other R4 WIs

(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, R4 Led NR TEI16, other R4 led items)

Tdoc Limitation: See tdoc limitation for Agenda Item 6

## 6.16 NR Other

(R2 led NR TEI16, LSs from CT/SA requesting RAN2 action).

Tdoc Limitation: See tdoc limitation for Agenda Item 6

# 7 Rel-16 EUTRA Work Items

Essential corrections

## 7.1    EUTRA Rel-16 General

No documents should be submitted to 7.1. Please submit to.7.1.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

### 7.1.1 Cross WI RRC corrections

### 7.1.2 Feature Lists and UE capabilities

## 7.2    Additional MTC enhancements for LTE

*(LTE\_eMTC5-Core; LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP192875;)*

*Documents in this agenda item will be handled in a break out session.*

*Some sub-items in 7.2 and 7.3 may be treated jointly.*

### 7.2.1     General and Stage-2 corrections

*Including incoming LSs*

### 7.2.2     Connection to 5GC corrections

*Connection to 5GC for MTC and NB-IoT is treated jointly under this AI.*

### 7.2.3     Other corrections

*Including corrections related to Mobile-terminated early data transmission (MT-EDT), Scheduling multiple DL/UL transport blocks, Quality report in Msg3, MPDCCH performance improvement using CRS, Improvements for non-BL UEs, Stand-alone deployment, Mobility enhancements, coexistence with NR and MTC specific topics.* *Corrections related to mobile-terminated early data transmission, scheduling multiple DL/UL transport blocks and coexistence with NR are treated jointly for MTC and NB-IoT under this AI.*

## 7.3 Additional enhancements for NB-IoT

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP-200293)

Documents in this agenda item will be handled in a break out session

Some sub-items in 7.2 and 7.3 may be treated jointly.

### 7.3.1 General and Stage-2 Corrections

Including incoming LSs etc

### 7.3.2 UE-group wake-up signal (WUS) Corrections

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

### 7.3.3 Transmission in preconfigured resources corrections

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

Including [Post112-e][351][NBIOT/eMTC R16] (N)RSRP reference for the TA validation for PUR (Huawei)

### 7.3.4 Other NB-IoT Specific corrections

NB-IoT specific topics

## 7.4 Even further mobility enhancement in E-UTRAN

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed: June 20; WID: RP-190921)

No documents should be submitted to 7.4. Please submit to.7.4.x

Documents under 7.4 will be treated together with documents in 6.7

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

LTE CHO corrections should be submitted to 6.7.2.

### 7.4.1 General and Stage-2 Corrections

Including incoming LSs (if any)

Including corrections to TS36.300 (for LTE CHO and LTE DAPS)

### 7.4.2 DAPS handover Corrections

This AI jointly addresses corrections to NR and LTE DAPS (i.e. both NR and LTE corrections for DAPS should be submitted here).

Including corrections to control and user plane specifications (e.g. 3x.331, 3x.323, 3x.321) for DAPS HO.

### 7.4.3 UE capability corrections

Including UE capability aspects of LTE mobility WI (i.e. UE capability corrections to 36.331 and 36.306).

## 7.5 LTE Other WIs

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

(Documents relating to Rel-16 LTE but for which there is no existing RAN WI/SI, e.g. LSs from CT/SA requesting RAN2 action)

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Including TEI16 corrections and issues that do not fit under any other topic.

## 7.6 LTE Positioning

(NavIC, LTE TEI16 Positioning)

Documents in this agenda item will be handled by email. No web conference is planned for this agenda item.

# 8 Rel-17 NR Work Items

## 8.1 NR Multicast

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: [RP-201038](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201038.zip))

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 4-6 threads

### 8.1.1 Organizational, Requirements, Scope and Architecture

Including stage-2 proposals.

### 8.1.2 Connected mode UEs

#### 8.1.2.1 Reliability

#### 8.1.2.2 Dynamic PTM PTP switch with service continuity

#### 8.1.2.3 Mobility with Service continuity

#### 8.1.2.4 Other

Including e.g. RAN2 aspects of group scheduling.

### 8.1.3 Idle and Inactive mode UEs

## 8.2 MR DC/CA further enhancements

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: [RP-201040](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201040.zip))

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

No documents should be submitted to 8.2. Please submit to.8.2.x

### 8.2.1 Organizational, Requirements and Scope

Including LSs, and any rapporteur inputs.

### 8.2.2 Efficient activation / deactivation mechanism for one SCG and SCells

### 8.2.3 Conditional PSCell change / addition

## 8.3 Multi SIM

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: RP-202895)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.3.1 Organizational, Requirements and Scope

Including LSs and any rapporteur input.

### 8.3.2 Paging collision avoidance

Including discussion on enhancement(s) to address the collision due to reception of paging when the UE is in IDLE/INACTIVE mode in both the networks associated with respective SIMs [RAN2]

### 8.3.3 UE notification on network switching for multi-SIM

Including discussion on mechanism for UE to notify Network A of its switch from Network A (for MUSIM purpose)

Including outcome of [Post112-e][256][Multi-SIM] Network switching details (vivo)

### 8.3.4 Paging with service indication

Including discussions on mechanism for an incoming page to indicate to the UE whether the service is voLTE/VoNR (pending SA2 feedback).

This agenda item may be deprioritized in this meeting (depending on whether SA2 input is received).

## 8.4 NR IAB enhancements

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-201293](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201293.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.4.1 Organizational, Requirements and Scope

Including work plan and any other rapporteur input.

### 8.4.2 Enhancements to improve topology-wide fairness, multi-hop latency and congestion mitigation

### 8.4.3 Topology adaptation enhancements

### 8.4.4 Duplexing enhancements, RAN2 scope

## 8.5 NR IIoT/URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-201310](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201310.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 2-3 threads

Focus to clarify the scope, understand the dependencies to other groups, get proposals on the table.

### 8.5.1 Organizational

Rapporteur input

### 8.5.2 Enhancements for support of time synchronization

Including requirements and scope.

### 8.5.3 Uplink enhancements for URLLC in unlicensed controlled environments

RAN2 aspects related to URLLC in unlicensed controlled environments. Initial discussion on potential impacts, including requirements and scope

### 8.5.4 RAN enhancements based on new QoS

RAN enhancements based on new QoS related parameters if any, e.g. survival time, burst spread, decided in SA2. [RAN2, RAN3]

## 8.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: [RP-201305](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201305.zip))

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

### 8.6.1 Organizational

In coming LSs, rapporteur input for email discussions summaires etc (tdocs in this don’t count towards tdoc limit).

### 8.6.2 User plane common aspects

Overall user plane procedure for SDT (including triggering and thresholds). Handling of data arrival for other DRBs. Suppression of PDCP status report, any other user aspects included in [POST112-e][551] which cannot be concluded as part of the email

### 8.6.3 Control plane common aspects

Cell reselection and failure handling, handling of subsequent data transmissins (including when to send RRCRelease, how to indicate presence of subsequent data, etc) and any other control plane aspects included in [POST112-e][551] which cannot be concluded as part of the email

### 8.6.4 Aspects specific to RACH based schemes

RA resource configuration, RAN2 specific details of context fetch/data forwarding with and without anchor relocation

### 8.6.5 Aspects specific to CG based schemes

Configuration of CG resources, Validity of CG resources, handling of beam selection for CG etc, any other aspects included in [POST112-e][550] which cannot be concluded as part of the email

## 8.7 NR Sidelink relay SI

(FS\_NR\_SL\_relay; leading WG: RAN2; REL-17; WID: RP-202208)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.7.1 Organizational

TR updates, rapporteur inputs, other organizational documents. Documents in this AI do not count towards the tdoc limitation.

### 8.7.2 Relaying Mechanisms and their characteristics

No documents should be submitted to 8.7.2. Please submit to 8.7.2.x.

#### 8.7.2.1 Layer 2 relay

Open issues and feasibility for layer 2 relay design.

This agenda item will use a summary document.

#### 8.7.2.2 Layer 3 relay

Open issues and feasibility for layer 3 relay design.

This agenda item will use a summary document.

### 8.7.3 Discovery model/procedure for sidelink relaying

This agenda item may use a summary document (decision to be made based on submitted tdocs).

### 8.7.4 Other

Including any remaining open issues on topics without separate agenda items.

This agenda item will use a summary document.

## 8.8 RAN slicing SI

(FS\_NR\_slice; leading WG: RAN2; REL-17; WID: [RP-193254](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-193254.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.3.1 Organizational

Including LSs, TR updates and any other rapporteur input.

*Including outcome of [Post112-e][253][RAN slicing] Prioritized solutions for RAN slicing (CMCC)*

*Including outcome of [Post112-e][252][RAN slicing] Capture RAN slicing agreements into TR 38.832 (CMCC)*

### 8.3.2 Slice based cell reselection under network control

Including discussion on proposals to address the issues for cell reselection identified in email discussion and whether or to which extent existing mechanisms can address them

### 8.3.3 Slice based RACH configuration or access barring

Including discussion on proposals to address the issues for RACH/access barring identified in email discussion and whether or to which extent existing mechanisms can address them

## 8.9 UE Power Saving

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-200938](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-200938.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

### 8.9.1 Organizational, Scope and Requirements

E.g. Rapporteur input

### 8.9.2 Idle/inactive-mode UE power saving

### 8.9.3 Other aspects, RAN2 impacts

## 8.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-20](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201256.zip)2908)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 4-5 threads

### 8.10.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

Including the outcome of [Post112-e][150][NTN] Stage 2 running CR (Thales)

### 8.10.2 User Plane

#### 8.10.2.1 RACH aspects

#### 8.10.2.2 Other MAC aspects

Including the outcome of [Post112-e][152][NTN] UL scheduling enhancements (Oppo)

#### 8.10.2.3 RLC and PDCP aspects

### 8.10.3 Control Plane

Also identify things not covered in the TR that need to be covered, if any.

#### 8.10.3.1 Earth fixed/moving beams related issues

#### 8.10.3.2 Idle/Inactive mode

Idle/inactive mode specific issues.

Including cell selection/reselection & system information.

Including the outcome of [Post112-e][153][NTN] Idle mode aspects (Nokia)

#### 8.10.3.3 Connected mode

Connected mode specific issues.

#### 8.10.3.4 LCS aspects

Potential issues associated to the use of the existing Location Services (LCS) application protocols to locate UE in the context of NTN.

Including the outcome of [Post112-e][151][NTN] LCS for NTN (Fraunhofer)

## 8.11 NR positioning enhancements SI

(FS\_NR\_pos\_enh; leading WG: RAN1; REL-17; WID: RP-202094)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

### 8.11.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

### 8.11.2 Enhancements for commercial use cases

Scope and general discussion related to the RAN2 objective on enhancements to support high accuracy, low latency, network efficiency, and device efficiency for commercial use cases.

No documents should be submitted to 8.11.2. Please submit to 8.11.2.x.

#### 8.11.2.1 Latency analysis and latency enhancements

Including summary of [Post112-e][616][POS] TP for latency analysis results (Intel)

Including summary of [Post112-e][617][POS] Evaluation of latency enhancement solutions (CATT)

This agenda item will use a summary document.

#### 8.11.2.2 Accuracy and efficiency enhancements

Including summary of [Post112-e][608][POS] Support of on-demand PRS (Ericsson)

Including summary of [Post112-e][609][POS] Positioning support in RRC\_IDLE/RRC\_INACTIVE (Huawei)

This agenda item will use a summary document.

### 8.11.3 Integrity and reliability of assistance data and position information

#### 8.11.3.1 General contributions

Including contributions on TP updating, and any remaining issues for KPIs, use cases, and error sources/threat models.

Including summary of [Post112-e][618][POS] Finalise integrity text proposals (Swift)

This agenda item may use a summary document (decision to be made based on submitted tdocs).

#### 8.11.3.2 Methodologies for network-assisted and UE-assisted integrity

This agenda item will use a summary document.

## 8.12 Reduced Capability SI

(FS\_NR\_redcap; leading WG: RAN1; REL-17; WID: [RP-202704](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201386.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.12.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

### 8.12.2 Framework for reduced capabilities

For potential solutions already captured in the TR, contributions should focus on suggesting conclusions and recommendations from RAN2 side. For any further input the focus should be on those topics where there is not enough content to make a meaningful conclusion.

#### 8.12.2.1 Principles for how to define and constrain reduced capabilities

#### 8.12.2.2 Identification and access restrictions

### 8.12.3 UE power saving and battery lifetime enhancement

#### UE power saving and battery lifetime enhancement for reduced capability UEs in applicable use cases (e.g. delay tolerant case).8.12.3.1 eDRX cycles

Including the outcome of [Post112-e][154][REDCAP] eDRX cycles (CATT)

#### 8.12.3.2 RRM relaxations

Including the outcome of [Post112-e][155][REDCAP] RRM relaxations (ZTE)

## 8.13 SON/MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-201281](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201281.zip))

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 6 threads

### 8.13.1 Organizational

### 8.13.2 SON

#### 8.13.2.1 Handover related SON aspects

Including conditional handover and DAPS

#### 8.13.2.2 2-step RA related SON aspects

#### 8.12.2.3 Other WID related SON features

Including RAN3 input features, successful handover report, MRO for SN change failure, RACH optimization enhancements, UL-DL coverage mismatch,…

### 8.13.3 MDT

#### 8.13.3.1 Immediate MDT enhancements

including M5/M6/M7 in all bearer type scenarios, immediate MDT for MR-DC

#### 8.13.3.2 Logged MDT enhancements

### 8.13.4 L2 Measurements

## 8.14 NR QoE SI

(FS\_NR\_QoE; leading WG: RAN3; REL-17; WID: [RP-193256](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-193256.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

## 8.15 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: RP-202846)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 6 threads

### 8.15.1 Organizational

*Including incoming LSs, rapporteur inputs, etc.*

### 8.15.2 SL DRX

8.15.2.1 SL DRX general

Including [POST112-e][702][SLe] High-level principles for SL DRX (LG), definition of on- and off- durations and the corresponding UE procedures, etc.

8.15.2.2 Mechanism to align wake-up time between TX and RX UEs

8.15.2.3 Coordination between Uu DRX and SL DRX

8.15.2.4 Others

### 8.15.3 Resource allocation enhancements RAN2 scope

### 8.15.4 Other

## 8.16 NR Non-Public Network enhancements

(WI NG\_RAN\_PRN\_enh-Core; leading WG: RAN3; REL-17; WID: RP-202363)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 2-3 threads

### 8.16.1 Organizational

Rapporteur input, incoming LS etc.

### 8.16.2 Support SNPN with subscription or credentials by a separate entity

Including the broadcasting of information to enable SNPN selection for UEs with subscription/credentials owned by an entity separate from the SNPN and Including the associated cell selection/reselection and connected mode mobility support (with RAN3)

### 8.16.3 Support UE onboarding and provisioning for NPN

Including the UE onboarding relevant parameter broadcast from SIB and The associated cell selection/reselection, cell access control and the connected mode mobility support

### 8.16.4 Other

Including support of IMS voice and emergency services for SNPN (Broadcasting of relevant parameters). This part might not be treated.

## 8.17 NR R17 Other

Time budget: TU

Tdoc Limitation: tdocs

Email max expectation: threads

This item carries the otherwise unbudgeted time to treat LSes for not yet started items.

# 9 Rel-17 EUTRA Work Items

## 9.1 NB-IoT and eMTC enhancements

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: [RP-201306](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CTSG_RAN%5CTSGR_88e%5CDocs%5CRP-201306.zip))

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 9.1.1 Organizational

### 9.1.2 NB-IoT neighbor cell measurements and corresponding measurement triggering before RLF

### 9.1.3 NB-IoT carrier selection based on the coverage level, and associated carrier specific configuration

### 9.1.4 Other

Includes WI objectives led by other WGs.

## 9.2 SI on NB-IoT and eMTC support for NTN

(FS\_LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; SID: RP-202689)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

Initial focus will be to clarify scope more detailed than in the SID, i.e. Start identifying the extent parts of “NR over NTN” TR can be re-used or not re-used for NB-IoT/eMTC support for NTN. Scenarios in the WID and as defined by RAN1 possibly complemented by RAN2 can be assumed.

### 9.2.1 Organizational and scenarios

Rapporteur Input, incoming LSes, RAN2 aspects of identifying scenarios.

### 9.2.2 User Plane

Including necessary changes to support NB-IoT and eMTC over satellite, reusing as much as possible the conclusions of the studies performed for NR NTN in TR38.821,

 related to HARQ operation, and related to timers (e.g. SR, DRX, etc.)

### 9.2.3 Mobility and Tracking Area

Including necessary changes to support NB-IoT and eMTC over satellite, reusing as much as possible the conclusions of the studies performed for NR NTN in TR38.821. RAN2 aspects related to idle mode and connected mode mobility: RLF-based for NB-IoT, Handover-based for eMTC.

### 9.2.4 Other

Indliucing e.g. System information enhancements.

## 9.3 EUTRA R17 Other

Time budget: 0 TU

Tdoc Limitation: X tdocs

Email max expectation: X threads

## 9.4 NR and EUTRA Inclusive language

Time budget: N/A

TS rapporteurs to provide CRs for Inclusive laguange acc to RP-202179. It is expected that this is handled mostly by email. CRs are to be endorsed/agreed-in-principle and will be submitted to RP for information. Final approval is expected when R17 TSes are to be created.