3GPP TSG-RAN WG2 Meeting #111 electronic R2-2xxxxxx

**Online, August 17th - 28th, 2020**

Source: RAN2 Chairman (Mediatek)

Title: Agenda

General

RAN2 111e (electronic) 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.

Scope and priorities

Maintenance including R16, and finishing UE capability signalling for R16 has highest priority. R17 will be handled, but with lower priority. Most R17 items that are started have a limited agenda, see each agenda item.

Specific methodology

R2 111e is conducted by email, ftp and by on-line web conferences by GoToWebinar + Torhu, in three parallel sessions. To facilitate easy treatment, some AIs/topics may be summarized in summary tdocs. If not assigned in the Agenda, summaries are assigned at/right after tdoc submission. Similar to recent R2 e-meetings decisions can be made both online and by email, which is applicable to R16 and earlier. At R2 111e since this is the first meeting for R17, decisions for R17 shall be made/confirmed on-line, not by email only, except if otherwise agreed on-line.

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. Rapporteur input (email discussion, WI rapporteur, TS rapporteur, assigned CR editor, assigned summary rapporteur, Draft Reply LS by contact company etc) and at-meeting decided tdocs do not count towards a tdoc limitation.

Rel-16

Most Rel-16 items do no longer have a tdoc limitation. You are anyway asked to not submit high numbers of tdocs. Please put all change proposals that can logically/reasonably be discussed together in a single tdoc. Do not have repetition between tdocs. Please do not submit both discussion doc and CRs on a topic. If a discussion tdoc is needed, then use a TP as an Annex (and if agreed it can be moved to a CR at the meeting).

Rel-16 miscellaneous corrections CRs

Editors for Rel-16 WI Cat B CRs are asked to, if needed, prepare or be ready to prepare (at the meeting) a miscellaneous corrections CR for their WI/TS. Companies are encouraged to coordinate with the Cat B CR editors for small changes, clarifications, text enhancements etc.

**Rel-16 NR UE capabilities**

R16 NR UE capabilities related to R1 feature list, R4 feature list and R2 features / capabilities (all) are handled in a common session under Agenda item 6.1.2. R16 NR UE capability modifications are merged into two Mega CRs (38306 38331). Exceptions: V2X UE capabilities (all) are handled separately in V2X session instead of in the common discussion. For IAB, minimum capabilities for IAB MT is handled separately in the IAB session (but other aspects, such as R1 R4 feature list, in the common session). NR Mobility UE capabilities are handled separately in the NR Mobility session. Other Exceptions TBD. Separately discussed UE capabilities are then merged into the mega CRs. EUTRA R16 UE capabilities are as before handled in a WI-specific way.

# 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

**Brief Reporting from RP 88e:**

1) TU’s are used as the nominal planning parameter also for e-Meetings. RP-201361 contains the endorsed TU plan for 2020 Q3. Note that the R2 part contains an error, R17 Other TU should be 0.5.

2) Release-16 is functionally frozen and ASN.1 is now considered formally frozen.

RAN2 Chair Comment: Still for Rel-16 UE capabilities, NBC changes can be accepted on consensus, and could be tolerated for other cases if there is consensus and a clear need (i.e. the statements in the R2 report in RP-200521 were not challenged).

4) RP discussion on finalizing the R16 UE capabilities can be found in RP-201284 where proposals 2, 3 and 4 are endorsed.

5) RAN2 scope for support of functionality for Rel-16 WI is 100% completed, except RAN2 CRs for a couple of RAN4 led topics.

6) FR2 fallback: This topic will be readdressed at RAN#89 in Sep -20, and not in WGs.

7) Secondary DRX: Tech Endorsed R2 CRs were approved.

## 2.4 Others

Rapporteur changes

Spec former rapporteur proposed new rapporteur

38.306 Naveen Palle (Intel) Seau Sian Lim (Intel)

# 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.

Including outcome of [Post110-e][254][LTE Capa] TDD/FDD differentiation or Rel-15 and earlier (Huawei)

Including outcome of [Post110-e][255][LTE CA] Clarification on non-contigous CA capabilities (Nokia)

# 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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_85\Docs\RP-191971.zip))

Only essential corrections

## 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

Including all architecures

#### 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

Including late drop.

#### 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

Including Late Drop.

### 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.

## 6.1 Rel-16 General

### 6.1.1 Cross WI RRC corrections

### 6.1.2 Feature Lists and UE capabilities

Includes UE capability updates related to R1 and R4 feature lists. Including outcome of email discussion [Post110-e][082][NR16] UE Capabilities (Intel, NTT Docomo). V2X capabilities are handled separately under the V2X WI. Minimum capabilites for IAB is handled separately under the IAB 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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200840.zip); SR: [RP-201234](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201234.zip),

R1, R2, R3 core parts are 100% complete).

Email max expectation: 5 email threads

### 6.2.1 General and Stage-2 Corrections

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

### 6.2.2 BAP Corrections

(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 6.1.1  
The outcome in [RP-201292](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201292.zip) on IAB MT Capabilities was endorsed at RP88e and shall be taken into account.

38306 38331 (Nok).

### 6.2.6 Other Corrections

E.g. 3x.304

## 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:\Data\3GPP\Extracts\RP-191575%20Revised%20WID%20NR-U.doc)926; SR; [RP-201141](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201141.zip); R1 and R2 are 100% Complete). Documents in this agenda item will be handled in a break out session.).

Email max expectation: 4 email threads

### 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:\Data\3GPP\TSGR\TSGR_84\docs\RP-190984.zip)200129; SR: RP-200431). Documents in this agenda item will be handled in a break out session

RP88e: RP Chair minuted summary: Regarding the RAN2 corrections work on V2X, I propose we minute that the items in the Intermediate Summary that were discussed this week in RAN can be discussed in RAN2 further: 1) Cross-RAT configuration, 2) Prioritization between uplink transmissions on Uu and sidelink transmissions on PC5.

Email max expectation: 10 email threads

### 6.4.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc.

### 6.4.2 Control plane corrections

Including outcome of email discussion [Post110-e][707][V2X] V2X UE capabilities (OPPO). CR rapporteur can provide miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company for small changes.

### 6.4.3 User plane corrections

### CR rapporteur can provide miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company for small changes.6.4.4 UE capabilities

Including outcome of email discussion [Post110-e][707][V2X] V2X UE capabilities (OPPO). Please contact / coordinate with CR rapporteur for small changes.

## 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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200797.zip); SR: RP-200796)

Email max expectation: 5 email threads

### 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

#### 6.5.4.1 Duplication

#### 6.5.4.2 Ethernet Header Compression

### 6.5.5 Other

## 6.6 NR Positioning Support

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: [RP-](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191156.zip)200218, SR: [RP-201342](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201342.zip)). R2 and R1 parts are 100% complete.

(NR TEI16 Positioning)

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

Email max expectation: 5 email threads

### 6.6.1 General and Stage 2 corrections

Including incoming LSs, Including impact to 36.305 and 38.305. Stage 2 corrections should be discussed with the specification rapporteur before submission.

### 6.6.2 RRC corrections

Including impact to 36.331 and 38.331.

### 6.6.3 LPP corrections

### 6.6.4 MAC corrections

### 6.6.5 Other

## 6.7 NR mobility enhancements

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: RP-192277; SR RP-201273). 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.

Email max expectation: 8 email threads (with 7.4)

### 6.7.1 General and Stage-2 Corrections

Including incoming LSs (if any).

### 6.7.2 Conditional handover related corrections

This AI jointly addresses corrections to NR and LTE CHO.

### 6.7.3 Conditional PSCell change for intra-SN corrections

Including corrections for CPC.

### 6.7.4 UE capabilities

Including UE capability aspects of NR mobility WI.

### 6.7.5 Other

*Including DAPS aspects that are NR-specific* ***without*** *equivalent LTE impacts.*

## 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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200791.zip), SR: [RP-201218](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201218.zip)) R1 and R2 parts are 100% complete.

Email max expectation: 4-5 email threads

### 6.8.1 General and Stage-2 Corrections

Including incoming LSs rapporteur inputs, including corrections discussions going beyond a specific TS, cross group discussions.

### 6.8.2 MAC Corrections

### 6.8.3 RRC Corrections

#### 6.8.3.1 Fast Scell activation

#### 6.8.3.2 Early measurement reporting

Including outcome of [Post110-e][080][DCCA] Early Measureemnts and Network Sharing (Huawei)

#### 6.8.3.3 Other

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

### 6.8.4 Other

## 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:\Data\3GPP\TSGR\TSGR_84\docs\RP-191607.zip); SR: RP-200913).

Email max expectation: 3-4 email threads

### 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; SR RP-200773). Documents in this agenda item will be handled in a break out session

Email max expectation: 4-5 email threads

### 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:\Data\3GPP\Extracts\RP-190711%20Revised%20work%20item%20proposal%202%20step%20RACH%20for%20NR.docx)200085; SR: RP-200622).

Email max expectation: 3 email threads

### 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:\Data\3GPP\archive\RAN\RAN%2383\Tdocs\RP-190713.zip))

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: [RP-191088](file:///C:\Data\3GPP\archive\RAN\RAN%2384\Tdocs\RP-191088.zip))

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: [RP-](file:///C:\Data\3GPP\archive\RAN\RAN%2384\Tdocs\RP-191563.zip)200122)

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

Email max expectation: 3 email threads

## 6.13 NR eMIMO

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: [RP-200474](file:///C:\Data\3GPP\archive\RAN\RAN%2385\Tdocs\RP-192271.zip); R2 part completed)

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

Email max expectation: 2 email threads

### 6.13.1 User plane corrections

### 6.13.2 Control plane corrections

## 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:\Data\3GPP\archive\RAN\RAN%2385\Tdocs\RP-191997.zip);)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: [RP-1915](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191563.zip)84)

(R1 Led NR TEI16, Other R1 led items)

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

Email max expectation: 5 email threads

### 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)

Email max expectation: 6 email threads

## 6.16 NR Other

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

Email max expectation: 2 email threads

# 7 Rel-16 EUTRA Work Items

Essential corrections

## 7.1    EUTRA Rel-16 General

### 7.1.1 Cross WI RRC corrections

### 7.1.2 Feature Lists and UE capabilities

### 7.1.3 Other

Other issue that do not fit under any other topic.

## 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.*

Email max expectation: 5-6 email threads

### 7.2.1     General and Stage-2 corrections

*Including incoming LSs*

### 7.2.2     Mobile-terminated MT early data transmission EDT corrections

*MT Early Data transmission for MTC and NB-IoT is treated jointly under this AI.*

### 7.2.3     Scheduling multiple DL/UL transport blocks corrections

*Scheduling multiple DL/UL transport blocks for MTC and NB-IoT is treated jointly under this AI.*

### 7.2.4     Coexistence with NR corrections

*Coexistence with NR for MTC and NB-IoT is treated jointly under this AI.*

### 7.2.5     Connection to 5GC corrections

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

### 7.2.6     Other MTC specific corrections

*Including corrections related to Quality report in Msg3, MPDCCH performance improvement using CRS, Improvements for non-BL UEs, Stand-alone deployment, Mobility enhancements.*

### 7.2.7     MTC UE capabilities corrections

## 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.

Email max expectation: 5-6 email threads

### 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.

### 7.3.4 Other NB-IoT Specific corrections

NB-IoT specific topics

### 7.3.5 NB-IoT UE capabilities corrections

## 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)

Documents under 7.4 will be treated together with documents in 6.7

### 7.4.1 General and Stage-2 Corrections

Including incoming LSs (if any)

### 7.4.2 DAPS handover Corrections

This AI jointly addresses corrections to NR and LTE DAPS.

Including corrections to control and user plane for DAPS HO.

### 7.4.3 UE capability corrections

Including UE capability aspects of LTE mobility WI.

### 7.4.4 Other corrections

Only corrections not fitting other agenda items.

*Including CHO aspects that are LTE-specific* ***without*** *equivalent NR impacts.*

## 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)

## 7.6 LTE Positioning

(NavIC, LTE TEI16 Positioning)

# 8 Rel-17 NR Work Items

## 8.1 NR Multicast

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: [RP-201038](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201038.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

Focus for this meeting: a) get a common understanding of the WID, b) review architecture assumptions (functional split), c) confirm WG work splits, Clarify expectations on other groups, if any. d) get technical proposals on the table for questions and scrutiny with focus on Connected mode UEs, and also to what extent solutions are expected to be reused between Idle / Inactive vs Connected mode UEs.

### 8.1.1 Organizational, Requirements, Scope and Architecture

Including stage-2 proposals

### 8.1.2 Connected mode UEs

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

#### 8.1.2.2 Mobility with Service continuity

#### 8.1.2.3 Other

Addtitional tdoc: 1

Dynamic Control of Transmission Area, Reliability. These topics are lower priority initially, and expected to not be treated at R2 111. Tdoc submission is allowed to allow coordination by cross-review of tdocs.

### 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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201040.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus for this meeting: a) get a common understanding of the WID b) get technical proposals on the table for questions and scrutiny.

### 8.2.1 Organizational, Requirements and Scope

Including work plan and any other rapporteur input.

### 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-201309](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201309.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 0 threads

This item will not be treated at meeting. However it is expected to receive LSes that need to be replied, and it is exptected that the LSes will be discussed by email to next meeting. Companies may input in order to announce their interntions and thus facilitate coordination etc.

## 8.4 NR IAB enhancements

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-201293](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201293.zip))

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 0 threads

This item will not be treated at meeting. However some parts, e.g. scope clarifications and work split might be initiated by email to next meeting. Tdoc sumbission is allowed to facilitate coordination by tdocs cross-review.

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

### 8.4.2 Topology adaptation enhancements, RAN2 scope

### 8.4.3 Duplexing enhancements, RAN2 scope

## 8.5 NR IIoT/URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-201310](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201310.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 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

## 8.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: [RP-201305](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201305.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus to clarify the scope, understand the dependencies to other groups e.g. including context fetch and anchor relocation, understand RRC vs non-RRC methods (downselection will be needed), get proposals on the table, initial focus on RACH based schemes and common aspects.

### 8.6.1 Organizational

### 8.6.2 UL small data transmissions for RACH-based schemes

Including also parts that are common between RACH-based schemes and use of pre-configured PUSCH resources. Including Requirements and Scope as well as technical proposals.

## 8.7 NR Sidelink relay SI

(FS\_NR\_SL\_relay; leading WG: RAN2; REL-17; WID: RP-193253)

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.7.1 Organizational

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

### 8.7.2 Scope, requirements, and scenarios

Clarify the required contents of the TR, high-level requirements, assumptions on supported scenarios. Including expectations on other groups if any.

### 8.7.3 Relaying Mechanisms and their characteristics

Start to populate the TR. Put on the table mechanisms, their characteristics at least with respect to aspects A-F for L2 and L3 relay etc.

### 8.7.4 Discovery model/procedure for sidelink relaying

## 8.8 RAN slicing SI

(FS\_NR\_slice; leading WG: RAN2; REL-17; WID: [RP-193254](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-193254.zip))

Time budget: 0.5 TU

Tdoc Limitation: 1 tdocs

Email max expectation: 1 threads

Expect to reply to outstanding LSes, could also have an initial discussion on the scope/requirements.

## 8.9 UE Power Saving

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-200938](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200938.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus on initial discussions to understand the WID, and to get proposals on the table for idle/inactive mode.

### 8.9.1 Organizational, Scope and Requirements

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

## 8.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-201256](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201256.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.10.1 Scope, requirements, scenarios, architecture

E.g. understand the WID, confirm the scenarios that shall be addressed, the role of and architecture for Location Service.

### 8.10.2 User Plane

In particular, initial focus on getting a common understanding of pre-compensation and offsets.

#### 8.10.2.1 MAC aspects

#### 8.10.2.2 Other 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 Idle/Inactive mode

Including cell selection/reselection & system information.

#### 8.10.3.2 Connected mode

Including mobility management.

## 8.11 NR positioning enhancements SI

(FS\_NR\_pos\_enh; leading WG: RAN1; REL-17; WID: [RP-200928](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200928.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 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 efficienty for commercial use cases. Detailed discussions may need to wait until RAN1 have progressed.

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

#### 8.11.3.1 KPIs and use cases

#### 8.11.3.2 Error sources, threat models, occurrence rates and failure modes

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

## 8.12 Reduced Capability SI

(FS\_NR\_redcap; leading WG: RAN1; REL-17; WID: [RP-201386](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201386.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.12.1 Organizational and scope

Get a common understanding of the SID, eg. what is RAN2 scope in the RAN1 centric objectives, what is required to be in the TR in order to start a WI.

### 8.12.2 Framework for reduced capabilities

#### 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).

## 8.13 SON/MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-201281](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201281.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus on scope clarification, identify the detailed use cases, and the associated measurment collections. Can also discuss other organizational aspects.

### 8.13.1 Organizational

### 8.13.2 SON, RAN2 scope and requirements

### 8.13.3 MDT Scope and requirements

## 8.14 NR QoE SI

(FS\_NR\_QoE; leading WG: RAN3; REL-17; WID: [RP-193256](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-193256.zip))

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

Email max expectation: 0 threads

Not Treated AT meeting. Can open incoming LSes if any.

## 8.15 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-201385](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201067.zip))

Time budget: 0 TU

Tdoc Limitation: 0 tdocs (no contributions expected).

Email max expectation: 0 threads

Not Treated AT meeting. Can open incoming LSes if any.

## 8.16 NR R17 Other

Time budget: 0.5 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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201306.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus on two objectives only, initial discussions to understand the context, scope, potential solution proposals.

### 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

## 9.2 EUTRA R17 Other

Time budget: 0 TU

Tdoc Limitation: X tdocs

Email max expectation: X threads