3GPP TSG-RAN WG2 Meeting #112 electronic R2-2xxxxxx

**Online, November, 2020**

Source: RAN2 Chairman (Mediatek)

Title: Agenda

General

RAN2 112e (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.

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

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 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 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: DAPS capability is handled under NR mobility AI. V2X capabilities are handed under the V2X AI. NR-U capabilities (Ref RP discussion) is handled in the NR-U parallel session. Other exceptions TBD

# 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.

Including outcome of [Post111-e][922][NBIOT/eMTC R15] UP EDT for DRB using RLC AM (Huawei)

## 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.

# 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 General RRC corrections

Corrections that do not fit well elsewhere in the agenda, e.g. cross-WI. Including [Post111-e][901][NR16] Extension scenarios for ToAddMod lists (Mediatek). Including [Post111-e][927][NR16] NR Parameter Names Consolidation (Ericsson)

### 6.1.2 NR Feature Lists and UE capabilities

Includes NR UE capability updates related to R1 and R4 feature lists. V2X capabilities are handled separately under the V2X WI. Including [Post111-e][900][NR16] UE capabilites (Intel, NTT Docomo)

### 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).

Limit: 5 email threads

### 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.

### 6.2.6 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.).

Limit: 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

Limit: 7 email threads

### 6.4.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc.

### 6.4.2 Control plane corrections

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. Including [POST111-e][707][V2X] CR update to new RAN1 decisions (LG)

### 6.4.4 UE capabilities

Please contact / coordinate with CR rapporteur for small changes. Including [POST111-e][708][V2X] Update of capability CRs (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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200797.zip); SR: RP-200796)

Limit: 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

Limit: 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.

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

### 6.6.5 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.

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.

Limit: 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 capability corrections

Including UE capability aspects of NR mobility WI and joint LTE/NR capability corrections..

Including outcome of [Post111-e][921][DAPS] DAPS capability structure clarifications (Huawei)

### 6.7.5 Other

*Including corrections to DAPS 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.

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.

Limit: 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 Fast Scell activation

### 6.8.3 Early measurement reporting

### 6.8.4 Other DCCA corrections

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.

Including outcome of [Post111-e][918][DCCA] SCell SMTC window for Unaligned CA (CMCC)

Including capability signalling based on agreements in RP-202030.

### 6.8.5 UE capabilities

## 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).

Limit: 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

Limit: 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).

Limit: 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

Limit: 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

Limit: 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

Limit: 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)

Limit: 6 email threads

## 6.16 NR Other

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

Limit: 2 email threads

# 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

Including [Post111-e][928][LTE16] EUTRA Parameter Names Consolidation (Samsung)

### 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.*

Limit: 5-6 email threads

### 7.2.1     General and Stage-2 corrections

*Including incoming LSs*

### 7.2.2    Coexistence with NR corrections

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

### 7.2.3     Connection to 5GC corrections

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

### 7.2.4     MTC UE capabilities corrections

### 7.2.5     Other MTC specific corrections

*Including corrections related to Mobile-terminated MT early data transmission EDT corrections, Scheduling multiple DL/UL transport blocks corrections, Quality report in Msg3, MPDCCH performance improvement using CRS, Improvements for non-BL UEs, Stand-alone deployment, Mobility enhancements and other MTC specific topics.*

## 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.

Limit: 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

## 7.4 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.

### 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.

Including discussion on how to avoid mTRP usage during DAPS HO as per RAN#89e discussion.

### 7.4.3 UE capability corrections

Including UE capability aspects of LTE mobility WI that are LTE-specific.

### 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)

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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-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. Including [Post111-e][904][MBS] L2 Architecture (Huawei). Including discussion of the SA2 LS in S2-2006044.

### 8.1.2 Connected mode UEs

#### 8.1.2.1 Reliability

General reliability. Whether to support RLC-AM or not for PTM.

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

#### 8.1.2.3 Mobility with Service continuity

Including [Post111-e][905][MBS] Connected Mode Mobility with Service Continuity (CMCC)

#### 8.1.2.4 Other

Including e.g. RAN2 aspects of group scheduling.

### 8.1.3 Idle and Inactive mode UEs

Including [Post111-e][906][MBS] Idle mode support (CATT)

## 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: 3 threads

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

### 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

Including outcome of [Post111-e][919][eDCCA] Efficient activation deactivation of SCG (Huawei)

### 8.2.3 Conditional PSCell change / addition

Including outcome of [Post111-e][920][eDCCA] Condtional PSCell Change and Addition (CATT)

## 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: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.3.1 Organizational, Requirements and Scope

Including work plan and any other rapporteur input.

Including outcome of [Post111-e][917][NR][Multi-SIM] Work prioritization for Multi-SIM (vivo)

### 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)

### 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.

## 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: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2-3 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

Including [Post111-e][902][eIAB] Enhancements to improve topology-wide fairness, multi-hop latency and congestion mitigation (Samsung)

### 8.4.3 Topology adaptation enhancements

Including [Post111-e][903][eIAB] Topology adaptation enhancements RAN2 scope (Qualcomm)

### 8.4.4 Duplexing enhancements, RAN2 scope

Expected to not be treated at this meeting, 1 tdoc in addition to tdoc limitation is allowed for this sub-AI for information exchange.

## 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: 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. Including [Post111-e][924][R17 URLLC/IIoT] Propagation delay for TSN (Nokia)

### 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:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-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). Including [Post111-e][925][R17 Small Data] Agreeable details of RRC-based solution (RACH and CG) (ZTE)

### 8.6.2 Security aspects

### 8.6.3 Control plane aspects

Support of RRC-less SDT, SDT type selection and switch between SDT and normal resume procedure, Cell reselection and failure handling, etc, except security aspects. Including [Post111-e][926][R17 Small Data] Context fetch (Ericsson)

### 8.6.4 Aspects specific to RACH based schemes

RA type selection, Separate RA resource pool for SDT

Details of context fetch, support of anchor relocation and no anchor relocation and procedural aspects related to RAN2

### 8.6.5 Aspects specific to CG based schemes

Configuration of CG resources, Validity of CG resources, handling of beam selection for CG etc

## 8.7 NR Sidelink relay SI

(FS\_NR\_SL\_relay; leading WG: RAN2; REL-17; WID: RP-201474)

Time budget: 1.5 TU

Tdoc Limitation: 5 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 Scope, requirements, and scenarios

Refinements to the contents of the TR regarding high-level requirements and assumptions on supported scenarios.

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

### 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.

#### 8.7.3.1 Protocol stacks and procedures

Including report of [Post111-e][627][Relay] Remaining issues on L2 architecture

#### 8.7.3.2 Service continuity

Including report of [Post111-e][621][Relay] Service continuity

#### 3.3

#### 8.7.3.4 Other

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

### 8.7.4 Discovery model/procedure for sidelink relaying

Including report of [Post111-e][623][Relay] Remaining issues on relay discovery

## 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: 2 tdocs

Email max expectation: 2 threads

### 8.3.1 Organizational

Including work plan, TR updates and any other rapporteur input.

Including outcome of [Post111-e][916][RAN slicing] RAN slicing study questions (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:\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

### 8.9.1 Organizational, Scope and Requirements

E.g. Rapporteur input

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

Including [Post111-e][907][ePowSav] UE grouping (Mediatek)

### 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-201256](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201256.zip))

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.

### 8.10.2 User Plane

#### 8.10.2.1 RACH aspects

Including the outcome of Post111-e][908][NTN] RACH and HARQ feedback aspects

#### 8.10.2.2 Other MAC aspects

#### 8.10.2.3 RLC and PDCP aspects

Including the outcome of Post111-e][909][NTN] 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

Including the outcome of Post111-e][910[NTN] Impacts of earth fixed and moving beams

#### 8.10.3.2 Idle/Inactive mode

Idle/inactive mode specific issues.

Including cell selection/reselection & system information.

#### 8.10.3.3 Connected mode

Connected mode specific issues.

Including the outcome of Post111-e][911[NTN] Connected mode aspects

## 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.

Including report of [Post111-e][625][POS] End-to-end latency analysis

This agenda item will use a summary document.

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

#### 8.11.3.1 KPIs and use cases

Including report of [Post111-e][626][POS] Integrity use cases and specification impacts

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

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

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

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

## 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: 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.

Including outcome of [Post111-e][912][REDCAP] TP for the TR

### 8.12.2 Framework for reduced capabilities

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

Including outcome of [Post111-e][913][REDCAP] Definition and constraining of reduced capabilities

#### 8.12.2.2 Identification and access restrictions

Including outcome of [Post111-e][914][REDCAP] UE 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).

Including outcome of [Post111-e][915][REDCAP] UE power saving features

## 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: 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:\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-201516)

Time budget: 1.5 TU

Tdoc Limitation: 3 tdocs (this is the initial meeting)

Email max expectation: 3-4 threads

### 8.15.1 Organizational

### 8.15.2 SL DRX for broadcast groupcast and unicast

### 8.15.3 Resource allocation enhancements RAN2 scope

### 8.15.4 Other

## 8.16 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:\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.

### 9.1.1 Organizational

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

Including outcome of [Post111-e][923][NBIOT R17] RLF Enhancements (Qualcomm)

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

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

(FS\_LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; SID: RP-193235)

Time budget: 0 TU (Per RP agreement, this item will start by email, there will be no on-line discussion)

Tdoc Limitation: 2 tdocs

Email max expectation: 2 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 Scenarios

Confirm Scenario Assumptions, e.g. from WID, from TR38.821 for the purpose of RAN2 continued work. R2 assumptions shall not replace/preempt R1 scenario work. It is assumed that this topic can be kept small/simple. In case decision cannot be taken, an assumption to allow contiued work should be taken, where the assumption can be verified later (e.g. in R2 or R1).

### 9.2.2 Applicability of TR 38.821

Identify the extent parts of TR38.821 can be re-used or not re-used for NB-IoT/eMTC support for NTN, identify points for necessary discussions. Focus on R2 led sub-objectives as listed in the SID: Aspects related to HARQ operation [RAN2, RAN1], General aspects related to timers (e.g. SR, DRX, etc.) [RAN2], RAN2 aspects related to idle mode and connected mode mobility: RLF-based for NB-IoT, Handover-based for eMTC [RAN2], System information enhancements [RAN2], Tracking area enhancements [RAN2]

## 9.3 EUTRA R17 Other

Time budget: 0 TU

Tdoc Limitation: X tdocs

Email max expectation: X threads