3GPP TSG-RAN WG2 Meeting #119bis electronic R2-2xxxxxx

Online, August, 2022

Source: RAN2 Chairman (MediaTek)

Title: Agenda

# 1 Opening of the meeting

**This e-Meeting**

- This e-Meeting follows 3GPP principles for e-Meetings.

- RAN2 119bis 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.

## 1.1 Call for IPR

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

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

## 1.2 Network usage conditions

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

## 1.3 Other

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

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

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

# 2 General

## 2.1 Approval of the agenda

## 2.2 Approval of the report of the previous meeting

## 2.3 Reporting from other meetings

## 2.4 Instructions

Not Treated Agenda Items

- The current agenda has a number of items marked *tdoc limitation: 0* and *Not treated*. Such Agenda items may have LS ins, and they are also not expected to be treated, but exceptions could be considered if needed.

Tdoc limitations (reminder)

Tdoc limitations doesn’t apply to Rapporteur Input, i.e.

- Assigned summary rapporteur input of the summary.

- Email / offline discussions outcomes by discussion rapporteur,

- WI rapporteurs input for WI planning etc,

- TS rapporteur input for TS maintenance

- Assigned Editor of Running CRs input to update the running CR and input of one tdoc to facilitate addressing of CR open issues.

- Contact Company of a LSin that triggers RAN2 action may submit one tdoc to facilitate the LS reply. This only applies to one of the contact companies in case there are several (default the first).

Tdoc limitations doesn’t apply to Input created at the meeting, revisions, assigned documents etc.

Tdoc limitations doesn’t apply to shadow / mirror CRs (Cat A).

Tdoc limitations applies to all other submitted tdocs.

Rel-17 CR

General, all correction CRs / draft CRs:

1. Rapporteurs of Rel-17 WI CRs are asked to continue their volunteer responsibility.
2. Unless otherwise explicitly agreed/indicated, max one Cat F CR per TS per WI shall be produced as outcome of the meeting. Exception: NBC aspects, if any, may need to be in a separate CR per WI (decided case by case). Note that Impact analysis is required per CR.
3. No editorial corrections for this meeting

Rel-17 UE capabilities

For NR UE capabilities the following applies:

1: As previously, work on mega CRs (one mega CR for TS 38.306 and one for TS 38.331). This work is done under Agenda Item AI 6.0.2

2: Coordinate centrally incorporation in CRs of RAN1 / RAN4 features for all Rel17 WIs. This work is done under Agenda Item AI 6.0.2 and changes are done directly to the mega CRs. There could be exceptions, case by case, where RAN1 / RAN4 features are treated under a WI-specific Agenda Item instead.

3 At the end of R2 119bis-e, endorsed WI specific UE capability CRs will be merged into the mega CRs, and the mega CRs will be provided to TSG RAN. Any exception to this need to be decided case by case.

## 2.5 Others

# 3 Incoming liaisons

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

# 4 EUTRA Rel-16 and earlier

Tdoc Limitation: 0 tdocs

Not treated

# 5 NR Rel-15 and Rel-16

Tdoc Limitation: 0 tdocs

Not treated

# 6 NR Rel-17

## 6.0 General

These AIs includes Aspects that does not fit under other morre specific AIs, multi-WI aspects,

Tdoc limitation: 2 tdoc (in addition to rapporteur input)

### 6.0.1 RRC

Including general or multi-WI aspects, if any

### 6.0.2 UE capabilities

Feature lists from other groups and UE cap Mega CRs will be treated under this AI. Specific issues may be reallocated to WI-specific AIs.

### 6.0.3 Void.

### 6.0.4 Other

## 6.1 NR Multicast

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: RP-201038)

Tdoc Limitation: 4 tdocs

It is encouraged to contribute with draft CRs or provide TP(s) for the affected specifications in the Annex of the contribution to facilitate the inclusion in the rapporteur CR.

### 6.1.1 Organizational and Stage-2

LS ins. CR Rapporteurs baseline correction CRs. For smaller corrections, text clarifications etc please contact CR Rapporteur before/instead of submitting a separate Tdoc.

Impact to stage-2 TS, and discussions on system level issues that need resolution, if any.

### 6.1.2 RRC corrections

### 6.1.3 Other CP corrections

Including corrections to TS 38.304, features / UE caps developed in RAN2 (complementary to AI 6.0.2).

### 6.1.4 UP corrections

Including corrections to PDCP, RLC and SDAP.

## 6.2 MR DC CA further enhancements

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: RP-201040)

Tdoc Limitation: 3 tdocs

No documents should be submitted to 6.2. Please submit to.6.2.x

Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications etc - please contact the Rapporteur before providing contributions on those aspects.

### 6.2.1 Organizational and Stage-2 corrections

Including LSs and any rapporteur inputs.

Including Stage-2 corrections related to DCCA WI.

Including report of email discussion [Post119-e][224][DCCA] Stage-2 description of CHO with MR-DC (ZTE)

### 6.2.2 SCG deactivation and Temporary RS for SCell activation Corrections

Including essential corrections to deactivated SCG and temporary RS for SCell activation..

### 6.2.3 Conditional PSCell change addition Corrections

Including essential corrections to of CPAC on network aspects (e.g. network communication via inter-node messages) handled by RAN2 and any aspects that require RAN3 interaction.

Including essential corrections to CPAC that relate to RRC signalling between network and UE and related UE capabilities.

Including essential corrections to CHO + MR-DC (done as part of TEI17).

## 6.3 Multi SIM

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: RP-212610)

Tdoc Limitation: 0 tdocs

Not treated

## 6.4 NR IAB enhancements

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: RP-211548)

Tdoc Limitation: 0 tdocs

Not treated

## 6.5 NR IIoT URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-210854)

Tdoc Limitation: 0 tdocs

Not treated

## 6.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: RP-212594)

Tdoc Limitation: 0 tdocs

Not treated

## 6.7 NR Sidelink relay

(NR\_SL\_Relay-Core; leading WG: RAN2; REL-17; WID: RP-212601)

Tdoc Limitation: 4 tdocs

### 6.7.1 Organizational

Incoming LSs, TS updates, rapporteur inputs. This AI is reserved for rapporteur and organizational inputs. For LSes that need action or have impact beyond taking into account by CR rapporteurs: One tdoc by contact company (one company) to address the LS and potential reply is considered Rapporteur Input and may be provided. Related documents and proposed responses from companies other than the contact company should be submitted to the corresponding technical agenda item.

### 6.7.2 Essential corrections

No documents should be submitted to 6.7.2. Please submit to 6.7.2.x.

#### 6.7.2.1 Stage 2 corrections

Including impact to 38.300.

#### 6.7.2.2 Control plane corrections

Including connection management, SI delivery, paging, access control for remote UE, and service continuity.

#### 6.7.2.3 User plane corrections

Including SRAP aspects and QoS.

#### 6.7.2.4 Discovery and re- selection

Including 5G ProSe Direct Discovery for the non-relaying case. Re-using LTE discovery and re/selection as baseline.

## 6.8 RAN slicing

(NR\_Slice -Core; leading WG: RAN2; REL-17; WID: RP-212534)

Tdoc Limitation: 0 tdocs

Only LS input from other WGs will be treated in this meeting.

## 6.9 UE Power Saving

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: RP-212632)

Tdoc Limitation: 0 tdocs

NOTE: Outcome of the following Email Discussion will be treated: [Post119-e][043][ePowSav] paging early indication with paging subgrouping during emergency call.

## 6.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: RP-211557)

Tdoc Limitation: 5 tdocs

### 6.10.1 Organizational

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

#### 6.10.1.1 LS in

For LSes that need action: one tdoc by contact company to address the LS and potential reply is considered.

Rapporteur input may be provided.

#### 6.10.1.2 Rapporteur inputs

CR Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications, etc - please contact the CR rapporteurs before providing contributions on those aspects.

### 6.10.2 Stage 2 corrections

### 6.10.3 UP corrections

### 6.10.4 CP corrections

#### 6.10.4.1 Idle/inactive mode corrections

#### 6.10.4.2 RRC corrections

### 6.10.5 UE capabilities corrections

## 6.11 NR positioning enhancements

(NR\_pos\_enh-Core; leading WG: RAN1; REL-17; WID: RP-210903)

Tdoc Limitation: 5 tdocs

### 6.11.1 Organizational

Rapporteur input. Incoming LS etc. This AI is reserved for rapporteur and organizational inputs. For LSes that need action or have impact beyond taking into account by CR rapporteurs: One tdoc by contact company (one company) to address the LS and potential reply is considered Rapporteur Input and may be provided. Related documents and proposed responses from companies other than the contact company should be submitted to the corresponding technical agenda item.

### 6.11.2 Essential corrections

No documents should be submitted to 6.11.2. Please submit to 6.11.2.x.

#### 6.11.2.1 Stage 2 corrections

Including impact to 36.305 and 38.305. Stage 2 corrections without functional impact will be treated at lower priority or not at all.

#### 6.11.2.2 RRC corrections

Corrections to 38.331, except for UE capability issues which are handled under the UE capability agenda item.

#### 6.11.2.3 LPP corrections

Corrections to 37.355.

#### 6.11.2.4 MAC corrections

Corrections to 38.321.

#### 6.11.2.5 UE capabilities

Including impact to 38.306 and any UE-capability-specific impact to 38.331.

## 6.12 Reduced Capability

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: RP-211574)

Tdoc Limitation: 0 tdocs

Not treated

## 6.13 SON MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: RP-201281)

Tdoc Limitation: 0 tdocs

Not treated

## 6.14 NR QoE

(NR\_QoE-Core; leading WG: RAN3; REL-17; WID: RP-211406)

Tdoc Limitation: 0 tdocs

Not treated

## 6.15 NR Sidelink enhancements

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

Tdoc Limitation: 3 tdocs

Note some agenda item(s) may use pre-meeting discussion based on a summary document.

### 6.15.1 Organizational

Including incoming LSs, rapporteur inputs, etc.

### 6.15.2 Control plane corrections

### 6.15.3 User plane corrections

## 6.16 NR Non-Public Network enhancements

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

Tdoc Limitation: 0 tdocs

Not treated

## 6.17 NR feMIMO

(NR\_feMIMO-Core; leading WG: RAN1; REL-17; WID: RP-212535)

Tdoc Limitation: 2 tdocs

### 6.17.1 Organizational

LS in, CR Rapporteurs to provide baseline correction CRs. For smaller corrections, text clarifications etc please contact CR Rapporteur

### 6.17.2 RRC centric Corrections

### 6.17.3 MAC centric Corrections

## 6.18 RACH indication and partitioning

Tdoc Limitation: 0 tdocs

Not treated.

## 6.19 Coverage Enhancements

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: RP-211566)

Tdoc Limitation: 0 tdocs

Not treated

## 6.20 Extending NR operation to 71GHz

(NR\_ext\_to\_71GHz-Core; leading WG: RAN1; REL-17; WID: RP-212637)

Tdoc Limitation: 2 tdocs

Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications etc - please contact the Rapporteur before providing contributions on those aspects.

### 6.20.1 Organizational

Including LSs and any rapporteur inputs.

### 6.20.2 Corrections to 71 GHz operation

Including essential control plane corrections to NR operation up to 71GHz.

## 6.21 TEI17

### 6.21.1 TEI proposals

Including incoming LSes.

Tdoc Limitation: 0 tdoc, No New proposals

Exception: Continuation of [119-e][037] Emergency Service Enhancement: 1 tdoc

Exception: Task from TSG RAN 97e Related to Per-FR Gaps: 1 tdoc

### 6.21.2 Corrections

Corrections CRs (Correction to TEI or TEI + other WI code) or detailed modifications to agreed proposals

## 6.22 NR and MR-DC measurement gap enhancements

(NR\_MG\_enh-Core; leading WG: RAN4; REL-17; WID: RP-211591)

Tdoc Limitation: 0 tdocs

Not treated

## 6.23 Uplink Data Compression (UDC)

(NR\_UDC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-211203)

Tdoc Limitation: 0 tdocs

Not treated

## 6.24 NR R17 Other

Includes items and topics without specific R2 Agenda Item. Includes LS in for R17 items not in a specific R2 Agenda Item.

### 6.24.1 RAN4 led Items

### 6.24.2 RAN1 led Items

### 6.24.3 Other

# 7 Rel-17 EUTRA Work Items

## 7.1 Common

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: RP-211340)

(UPIP\_EN-DC\_UE; leading WG: RAN3; REL-17; WID: RP‑213669)

(LTE TEI17)

Tdoc limitation: 0

This agenda item will not be treated in this meeting.

## 7.2 NB-IoT and eMTC support for NTN

Tdoc Limitation: 5 tdocs

### 7.2.1 Organizational

LSs, rapporteur inputs and other organizational documents. CR Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications, etc - please contact the CR rapporteurs before providing contributions on those aspects.

### 7.2.2 Stage 2 corrections

### 7.2.3 UP corrections

Impacts to 36.321, 36.322, 36.323, 37.324

### 7.2.4 CP corrections

#### 7.2.4.1 RRC corrections

Impacts to 36.331

#### 7.2.4.2 Idle/Inactive mode corrections

Impacts to 36.304

### 7.2.5 UE capabilities corrections

# 8 Rel-18

## 8.1 NR network-controlled repeaters

(NR\_NetConRepeater; leading WG: RAN1; REL-18; WID: RP-222673)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdocs

### 8.1.1 Organizational

Including LSs and any rapporteur inputs.

### 8.1.2 Signalling for side control information

Signalling and procedures for for side control information, based on RAN1 agreements. Additionally, any other RAN2 reletated aspects, if needed.

### 8.1.3 Repeater management

Including Identification and authorization of network-controlled repeaters, taking into accout feedback from SA3.

Note: we will wait for SA3 reply, so no contributions are expected to be treated in RAN2#119-bis.

## 8.2 Expanded and improved NR positioning

(FS\_NR\_pos\_enh2; leading WG: RAN1; REL-18; WID: RP-221814)

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

### 8.2.1 Organizational

Including incoming LSs and rapporteur inputs.

### 8.2.2 Sidelink positioning

Study of positioning architecture and signalling procedures (e.g. configuration, measurement reporting, etc) to enable sidelink positioning covering both UE based and network based positioning. Considering relative positioning, ranging and absolute positioning.

### 8.2.3 RAT-dependent integrity

Study methodologies, procedures, signalling, etc for determination of positioning integrity for both UE-based and UE-assisted positioning. Focus on reuse of concepts and principles being developed for RAT-Independent GNSS positioning integrity, where possible. Identification of error sources may require input from RAN1.

### 8.2.4 LPHAP

Study the requirements on LPHAP as developed by SA1 and evaluate whether existing RAN functionality can support these power consumption and positioning requirements. Based on the evaluation, and, if found beneficial, study potential enhancements to help address any limitations.

### 8.2.5 RedCap positioning

Based on RAN1 evaluation, assess the necessity of enhancements, and, if needed, identify enhancements to help address limitations associated with RedCap UEs.

## 8.3 Network energy savings for NR

(xx-Core; leading WG: RAN1; REL-18; WID: RP-213554)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.3.1 Organizational

*LS, workplan, email discussion etc*

### 8.3.2 gNB and UE supporting techniques

*Contributions should focus on how to achieve more efficient operation dynamically and/or semi-statically and finer granularity adaptation of transmissions and/or receptions in one or more of network energy saving techniques in time, frequency, spatial, and power domains, with potential support/feedback from UE, and potential UE assistance information*

## 8.4 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID: RP-222332)

Time budget: 2 TU

Tdoc Limitation: 5 tdocs .

### 8.4.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan). Including input on work splits and tasks for other groups (LS outs), which is expected dependent also on other progress (treated last).

### 8.4.2 L1 L2 Mobility

#### 8.4.2.1 Target Performance Enhancements

Including Consolidation of expectations, what characteristic to enhance, elaborate on the components of the latency time line. Including further Specification of focus Scenarios. Including expectation of what characteristics may be addressed by other groups.

#### 8.4.2.2 RRC

Including Candidate solutions focused on RRC

WID: Configuration and maintenance for multiple candidate cells to allow fast application of configurations for candidate cells [RAN2, RAN3]. Including the outcome of email discussion [Post119-e][048][feMob] Candidate target configurations for L1/L2 mobility (Ericsson)

#### 8.4.2.3 Dynamic Switch

Including Candidate solutions focused on dynamic switch not addressed by the RRC subclause above.

WID: Dynamic switch mechanism among candidate serving cells (including SpCell and SCell) for the potential applicable scenarios based on L1/L2 signalling [RAN2, RAN1]

#### 8.4.2.4 Inter cell BM L1 measurements and beam ind

WID: L1 enhancements for inter-cell beam management, including L1 measurement and reporting, and beam indication [RAN1, RAN2] Note: Early RAN2 involvement is necessary, including the possibility of further clarifying the interaction between this bullet with the previous bullet

### 8.4.3 NR-DC with selective activation cell of groups

Consolidate the aspects to improve, and identify candidate solutions.

## 8.5 XR Enhancements for NR

(FS\_NR\_XR\_enh; leading WG: RAN2; REL-18; WID: [RP-220285](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_95e/Docs/RP-220285.zip))

Time budget: 2 TU

Tdoc Limitation: 8 Tdocs

### 8.5.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan, draft TR)

### 8.5.2 XR-awareness

No documents should be submitted to 8.5.2. Please submit to 8.5.2.x

Contributions should take the existing SA2/SA4 decisions into account.

#### 8.5.2.1 PDU sets and data bursts

Including discussion on how RAN2 can make use of PDU sets and/or data bursts in UL or DL direction.

Including discussion on how PDU sets can be mapped to DRBs and whether/how SA2 discussion on PDU set mapping to QoS flows or sub-flows impacts RAN2

#### 8.5.2.2 PDU prioritization

Including discussion on whether the XR awareness impacts traffic prioritization of XR traffic, e.g. whether there are impacts to LCP mechanism

#### 8.5.2.3 PDU discard

Including discussion on whether the XR awareness impacts PDU discarding of XR traffic, e.g. whether existing PDU discard mechanisms are sufficient

### 8.5.3 XR-specific power saving

No documents should be submitted to 8.5.3. Please submit to 8.5.3.x

#### 8.5.3.1 DRX enhancements

Including discussion on DRX enhancements for XR, e.g. how to handle XR traffic periodicity, jitter and frame-size variations, how frequent changes does XR traffic require for DRX, etc.

#### 8.5.3.2 Other enhancements

Including discussion on non-DRX power saving enhancements for XR

### 8.5.4 XR-specific capacity improvements

No documents should be submitted to 8.5.4. Please submit to 8.5.4.x

#### 8.5.4.1 Feedback enhancements

Including discussion on UE feedback enhancements for XR capacity, e.g. how BSR can enhance capacity for XR (e.g. new BSR table, how to reflect delay in BSR, etc.)

#### 8.5.4.2 Scheduling enhancements

Including discussion on scheduling enhancements to improve XR capacity, e.g. on CG, how to jointly consider UL and DL traffic, how to allocate multiple TBS, etc.

Including discussion on whether XR traffic would require enhancements to measurement gaps

## 8.6 IoT NTN enhancements

(xx-Core; leading WG: RAN1; REL-18; WID: RP-221806)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.6.1 Organizational

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

### 8.6.2 Performance Enhancements

#### 8.6.2.1 HARQ enhancements

#### 8.6.2.2 GNSS operation enhancements

### 8.6.3 Mobility Enhancements

### 8.6.4 Enhancements to discontinuous coverage

Not treated at this meeting. No contributions expected

## 8.7 NR NTN enhancements

(xx-Core; leading WG: RAN1; REL-18; WID: RP-222654)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.7.1 Organizational

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

### 8.7.2 Coverage Enhancements

### 8.7.3 Network verified UE location

*Including the report of [Post119-e][108]*

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

## 8.8 NR support for UAV

(xx-Core; leading WG: RAN1; REL-18; WID: RP-213600)

Time budget: 0.5 TU

Tdoc Limitation: 2

### 8.8.1 Organizational

### 8.8.2 Measurement reporting

Contributions should focus on enhancement to measurement reports, for example UE-triggered measurement report based on configured height thresholds, Reporting of height, location and speed in measurement report, Flight path reporting, Measurement reporting based on a configured number of cells (i.e. larger than one) fulfilling the triggering criteria simultaneously

Note: Work done in LTE is a starting point for this objective. NR-specific enhancements can be considered, if needed, while overall the LTE and NR solutions should be harmonized as much as possible.

### 8.8.3 Subscription-based aerial-UE identification

Contributions should focus on signaling required to support subscription-based aerial-UE identification

Note: Work done in LTE is a starting point for this objective. NR-specific enhancements can be considered, if needed, while overall the LTE and NR solutions should be harmonized as much as possible.

### 8.8.4 UAV identification broadcast

Study and specify, if needed, enhancements for UAV identification broadcast

NOTE: This Agenda Item will not be treated in this meeting

## 8.9 Enhanced NR Sidelink Relay

(NR\_SL\_relay\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221262)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

### 8.9.1 Organizational

Including incoming LSs and rapporteur inputs.

### 8.9.2 UE-to-UE relay

Single-hop Layer-2 and Layer-3 UE-to-UE relay for unicast. Focus for this meeting is on the common L2/L3 parts: relay discovery and (re)selection. Tdocs on other aspects of the objective may be submitted but will not be treated at this meeting.

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

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

### 8.9.4 Multi-path relaying

Study the benefit and potential solutions for multi-path support to enhance reliability and throughput. Includes the cases where a UE is connected to the same gNB using one direct path and one indirect path via 1) Layer-2 UE-to-Network relay, or 2) via another UE (where the UE-UE inter-connection is assumed to be ideal).

### 8.9.5 DRX

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

## 8.10 IDC enhancements for NR and MR-DC

(NR\_IDC\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221281)

Time budget: 0 TU

Tdoc Limitation: 0 tdocs

No Treatment at R2 119bis

## 8.11 Enhancements of NR Multicast and Broadcast Services

(NR\_MBS\_enh-Core; leading WG: RAN2; REL-18; WID: RP-221458)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.11.1 Organizational

LS in, rapporteur input etc.

### 8.11.2 Multicast reception in RRC\_INACTIVE

Objective: Specify support of multicast reception by UEs in RRC\_INACTIVE state [RAN2, RAN3], PTM configuration for UEs receiving multicast in RRC\_INACTIVE state [RAN2]. Study the impact of mobility and state transition for UEs receiving multicast in RRC\_INACTIVE. (Seamless/lossless mobility is not required) [RAN2, RAN3].

Including aspects such as:

* how is PTM configuration delivered to the UE, how is the configuration updated (e.g. due to UE mobility), what does the configuration contain (e.g. compared to Rel-17 PTM configuration), mobility of the UE etc.
* service continuity during RRC states changes, how does the network indicate the UE to switch RRC state for multicast reception, notifications/group paging enhancements due to session activation/deactivation or due to Inactive mutlicast reception enable/disable by the network etc.

Report of [Post119-e][610][eMBS] PTM configuration for INACTIVE (CATT). The aspects covered by [Post119-e][610] e-mail discussion should not be repeated in the Tdocs

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

Specify Uu signalling enhancements to allow a UE to use shared processing for MBS broadcast and unicast reception, i.e., ‎including UE capability and related assistance information reporting regarding simultaneous unicast reception in RRC\_CONNECTED and MBS broadcast reception from the same or different operators [RAN2]

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

( NR\_mobile\_IAB -Core; leading WG: RAN3; REL-18; WID: RP-221815)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.12.1 Organizational

Ls in Rapporteur input etc

### 8.12.2 Mobility Enhancements

Enhancements for mobility of an IAB-node together with its served UEs, including aspects related to group mobility. No optimizations for the targeting of surrounding UEs. [RAN3, RAN2]

### 8.12.3 Other

Define Procedures for migration/topology adaptation to enable IAB-node mobility, including inter-donor migration of the entire mobile IAB-node (full migration) [RAN3, RAN2]. Mitigation of interference due to IAB-node mobility, including the avoidance of potential reference and control signal collisions (e.g. PCI, RACH). [RAN3, RAN2]. Also At the beginning of the work period, RAN3, RAN2 should discuss the potential complexity of a scenario where a mobile IAB node connects to a stationary (intermediate) IAB node, with respect to the scenario where a mobile IAB node connects directly to an IAB-donor.

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

(NR\_ENDC\_SON\_MDT\_enh2-Core; leading WG: RAN3; REL-18; WID: RP-221825)

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

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

### 8.13.1 Organizational

Ls in Rapporteur input.

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

Focus on UE impact

### 8.13.3 MDT override

Focus on UE impact. RAN3 progress pending on RAN2

### 8.13.4 SHR and SPCR

Focus on UE impacts. RAN2/RAN3 progress (including the RAN3 LS R2-2209104) should be considered.

### 8.13.5 SON for NR-U

Focus on UE impacts. RAN2/RAN3 progress (including the RAN3 LS R2-2209105) should be considered.

### 8.13.6 RACH enhancement

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

### 8.13.8 Other

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

(NR\_QoE\_enh-Core; leading WG: RAN3; REL-18; WID: [RP-221803](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221803.zip))

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

### 8.14.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan

### 8.14.2 QoE measurements in RRC\_IDLE INACTIVE

including discussion on QoE measurements for RRC\_IDLE/INACTIVE for MBS broadcast services.

**This agenda item will not be treated in this meeting.**

### 8.14.3 Rel-17 leftover topics for QoE

Including discussion on Rel-17 leftover topics: Whether/how RRC should support per-slice QoE measurement configuration, RAN-visible QoE aspects, or QoE reporting for overload scenario?

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

Including discussion on support of QoE measurements for NR-DC.

### 8.14.5 Other topics

Including any other QoE enhancement discussion (e.g. service type aspects, QoE continuity).

**This agenda item will not be treated in this meeting.**

## 8.15 NR Sidelink evolution

(NR\_SL\_enh2; leading WG: RAN1; REL-18; WID: RP-221938)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

Note some agenda item(s) may use pre-meeting discussion based on a summary document.

### 8.15.1 Organizational

Incoming LS and rapporteur inputs.

### 8.15.2 SL-U: RAN2 scope

CAPC definition (e.g. relation to SL priority or PQI, fixed or configurable, etc.), LBT impact to MAC (LBT failure, resource allocation, DRX operation, etc.), and any other RAN2 scopes.

## 8.16 Artificial Intelligence Machine Learning for NR air interface

(FS\_NR\_AIML\_air; leading WG: RAN1; REL-18; WID:RP-Xxxxxx)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

### 8.16.1 Organizational

Rapporteur input. Rapporteur is asked to elaborate on expected work split between WGs (will be discussed).

### 8.16.2 AIML methods

Explore AIML methods that are expected applicable to this SI and their expected or potential impact on architecture, framework, on RAN2 and in general.

### 8.16.3 Use case specific aspects

Explore potential impact of the specific use cases, and the related AIML methods. Authors are asked to kindly structure subclauses, observations, proposals according to use case. Note that RAN2 is dependent on RAN1 progress to make detailed decisions.

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

(NR\_DualTxRx\_MUSIM-Core; leading WG: RAN2; REL-18; WID: RP-220955)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.17.1 Organizational

Including LSs and any rapporteur inputs (e.g. work plan)

### 8.17.2 Temporary capability restriction for MUSIM

No documents should be submitted to 8.16.2. Please submit to.8.16.2.x

#### 8.17.2.1 Scenarios

Including discussion on scenarios to address in this WI: What are the prioritized scenarios? What is assumed from UE and network? Is it assumed that UE supporting dual RRC connection also supports Rel-17 MUSIM?

#### 8.17.2.2 Solutions

Including discussion on mechanism to indicate preference on temporary UE capability restriction and removal of restriction: How is this accomplished: e.g. capability update, release of cells, (de)activation of configured resources? What are the cases when this can occur for MUSIM, i.e. what does "start/stop connection to NW B) for MUSIM purpose" mean?

### 8.17.3 Other

Including any other aspects of dual Tx/Rx Multi-SIM.

## 8.18 R18 Other

Misc Impacts from Other RAN WGs and TSGs (incl MC Enhancements). LS ins for Rel-18 topics that has no RAN WI.

Time budget: 0.5 TU

Tdoc Limitation: -