**Email discussions after RAN2#119-e**

# Guidelines for email discussions:

**General guidelines for email discussions, to be concluded approved endorsed at current meeting (short).**

1. Aim to have the final version of the agreed documents provided by the rapporteur at or shortly after the deadline.
2. Please provide comments on the first version of the document in good time before the deadline. This allows the rapporteur to make an update addressing all companies' comments and there still be time for a quick round of comments on the update.
3. If you have provided comments in the discussion then please indicate to the rapporteur if you are ok with the update provided (preferably via reflector). This avoids the rapporteur having to wait before they can conclude that their update is acceptable to you.
4. Rapporteurs, if not already available, please request your tdoc number from Juha when you initiate your email discussion and then provide the final version as soon as you are confident that it is agreeable. You do not need to wait for a reminder from chairman, session chair or Juha before sending the final version.
5. To avoid any confusion, Secretary, chairman, or session chair will send an email to confirm the final status of the document.

**For emails discussion to the next meeting (long):**

1. Rapporteurs, feel free to set an intermediate deadline for companies to provide initial comments, so that the conclusions and proposals can be prepared and distributed before the final deadline.
2. Participants, please respect any intermediate deadline indicated by the rapporteur, and preferably provide your feedback as soon as possible.

# Inactive periods

Oct 3-7, and Oct 24-28 are inactive periods (but does not affect RAN2 email discussions after R2 119 towards R2 119bis). Please see also TSG RAN schedule and potential updates to it. Weekends are also inactive. As usual it is recommended to not send emails or update files on the server during inactive periods. It is not strictly prohibited. However, no intermediate deadlines, no discussion phase start stop, no interactive discussion may occur during the inactive period. It shall be possible for a delegate to stay away from reflector and 3GPP server during the inactive period, and still fully participate. Rapporteur announcements during the inactive period, if any, can be taken into account after inactive period.

# Short email discussions after R2-119-e, Deadline Friday Sept 2nd, 1000 UTC (if not otherwise stated)

**Please request TDoc numbers the following email discussions from MCC if not already allocated**

Approval will be declared at or shortly after the deadline.

* [Post119-e][000] Organizational Main (Chair)

Scope: Review and approval of session notes, Definition of new email discussions (if needed), Any other issue related to R2 119-e.

. Intended outcome: Approved Session Reports, Other

Deadline: Short

**Very Short**

* [Post119-e][607][MBS-R17] Capabilities CRs (Mediatek)

Scope: Prepare draft CRs for MBS capabilities based on the agreements

Outcome: Endorsed draft 38.331 and 38.306 CRs for MBS capabilities for inclusion into capability Mega CRs

Deadline: Very short Tuesday 30 August 2022 2359 UTC

**Post-meeting email discussions (short****)**

* [Post119-e][001][feMIMO] MAC CR (Samsung)

Scope: Capture meeting progress in a MAC CR

Intended outcome: Agreed CR

Deadline: Short

* [Post119-e][002][feMIMO] RRC CR (Ericsson)

Scope: Capture meeting progress in a Ericsson CR

Intended outcome: Agreed CR

Deadline: Short

* [Post119-e][014][NR17] UE caps Main (Intel)

Scope: Continue [AT119-e][014]. Take into account all relevant incoming LSes. Determine agreeable parts and capture in CRs. Merge WI specific R17 UE caps draft CRs, endorsed in the Wi specific sessions.

Intended outcome: Agreed UE caps Mega CRs, LS out if applicable, report if helpful for future progress.

Deadlines: Sept 07 (extended short).

* [Post119-e][024][NR18] FS\_REDCAP\_Ph2 Reply LS (Ericsson)

Scope: Based on agreements related to [AT119-e][024], agree reply LS

Intended outcome: Approved Reply LS out.

Deadline: Short

* [Post119-e][032][NR1516] n77 (Ericsson)

Scope: Based on progress, e.g. online and in [AT119-e][032], progress Rel-16 and Rel-17 CRs “Correction to additionalSpectrumEmission for UL CA in n77 for the US”, and Rel-17 CR “Correction to additionalSpectrumEmission for UL CA in n77 for Canada”, and also R2-2208164 Ensuring consistent support of capability bits and associated NS-values in n77 in USA and Canada

Intended outcome: Agreed CRs

Deadline: Short

* [Post119-e][036][feMob] Agreements, time chart, LS out (MediaTek)

Scope: Capture WI agreements, Capture a mobility timing chart for L1L2 mobility, as a reference - include all pieces of procedures that may be optimized impacted FFS etc (acc to current agreements). LS out to RAN1 and RAN3 on the RAN2 progress, and ask to take into account.

Intended outcome: Endorsed Report or Stage-2 CR with appendix etc, Approved LS out

Deadline: Sept 7th

* [Post119-e][037][NRTEI17] Emergency Service Enhancement CR (Huawei)

Scope: Continue from [AT119-e][037], Collect further comments on the proposals, clarify potential issue if possible, reach a potentially agreeable way forward for the next meeting,

Intended outcome: Report (to be submitted to next meeting, to be used as baseline for continued disc)

Deadline: 1 week

* [Post119-e][039][ePowSav] 38304 CR (vivo)

Scope: Reflect the agreements in a CR, Agree CR

Intended outcome: Agreed CR

Deadline: Short (can start before end of meeting)

* [Post119-e][040][ePowSav] 38331 CR (CATT)

Scope: Reflect the agreements in a CR, Agree CR

Intended outcome: Agreed CR

Deadline: Short (can start before end of meeting)

* [Post119-e][041][NR17] CRS-IM network assistance signalling (Qualcomm)

Scope: Treat R2-2209050. Attempt to converge to an agreeable CR (Rapporteur has promised to provide a proposal).

Intended outcome: Report (to document the discussion and in case not possible to converge), Note that technical proposals will not be agreed individually. Agreed CR

Deadline: Short (can start before end of meeting)

* [Post119-e][042][NRTEI17] CRs for DRX operation with bundling controlled in the DCI (Ericsson)

Scope: Continue based on progress for R2-2208668. Arrive at agreeable CRs (UE cap CRs assumed to not be merged)

Intended outcome: Agreed CRs

Deadline: Short

* [Post119-e][044][NR1516] CR for overheating for NR SCG (Qualcomm)

Scope: Continue discussion from [AT119-e][011] on revision of R2-2208207/8208.

Intended outcome: Agreed CRs

Deadline: Short

* [Post119-e][045][NR151617] RRC TS Rapporteur CRs (Ericsson)

Scope: Miscellaneous non-controversial corrections CRs

Intended outcome: Agreed CR(s)

Deadline: Short

* [Post119-e][046][NR17] FR2 UL Gap MAC CR (Apple)

Scope: Continue discussion from [AT119-e][030]. Take into account the late comment by ericsson. Allow wider participation

Intended outcome: Agreed CR

Deadline: Short

* [Post119-e][047][MGE] RRC CR (MediaTek)

Scope: Continue discussion from [AT119-e][033], take into account RAN4 agreements on mgta.

Intended outcome: Agreed RRC CR

Deadline: Short

* [Post119-e][101][NR-NTN] RRC CR (Ericsson)

Scope: Update the RRC CR considering the meeting agreements

Intended outcome: Agreeable RRC CR in R2-2209042

Deadline: short

* [Post119-e][102][RedCap] RRC CR (Ericsson)

Scope: Update the RRC CR considering the meeting agreements

Intended outcome: Agreeable RRC CR in R2-2209048

Deadline: short

* [Post119-e][103][RedCap] 38.304 CR (Ericsson)

Scope: Update the 38.304 CR considering the meeting agreements

Intended outcome: Agreeable 38.304 CR in R2-2208778

Deadline: short

* [Post119-e][104][RedCap] MAC CR (vivo)

Scope: Update the MAC CR considering the meeting agreements

Intended outcome: Agreeable MAC CR in R2-2209049

Deadline: short

* [Post119-e][105][IoT-NTN] RRC CR (Huawei)

Scope: Update the RRC CR considering the meeting agreements

Intended outcome: Agreeable RRC CR in R2-2208784

Deadline: short

* [Post119-e][106][IoT-NTN] MAC CR (Mediatek)

Scope: Update the MAC CR considering the meeting agreements

Intended outcome: Agreeable MAC CR in R2-2209041

Deadline: short

* [Post119-e][107][IoT-NTN] 36.306 CR (Nokia)

Scope: Update the 36.306 CR considering the meeting agreements

Intended outcome: Agreeable 36.306 CR in R2-2208789

Deadline: short

* [Post119-e][203][LTE] Clarification on SPS deactivation upon carrier reconfiguration (ZTE)

Scope: Discuss the final CRs based on proposed changes in [R2-2208594](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208594.zip) and [R2-2208595](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208595.zip) and provide agreeable CRs.

Intended outcome: Agreed CRs

Deadline: Short

* [Post119-e][213][71 GHz] LS on CCA information for neighbour cells (Nokia)

Scope: Finalize draftCRs for CCA information for neighbour cells and corresponding LS to RAN4/3. Should take online agreements into account.

Intended outcome: Approved LS and endorsed draftCRs.

Deadline: Short

* [Post119-e][214][71 GHz] Final CRs for HO from E-UTRA to FR2-2 (ZTE)

Scope: Finalize CRs for HO from E-UTRA to FR2-2. Can discuss whether inter-RAT TCI state indication is needed (companies to check with their RAN1 delegates), and whether existing 36.306 HO capability needs to clarify it also applies for FR2-2 measurements.

Intended outcome: Agreed CR to 36.331 and, if needed, CR to 36.306

Deadline: Short

* [Post119-e][215][71 GHz] Corrections to RRC for 71 GHz (Ericsson)

Scope: Finalize RRC CR for 71 GHz based on [R2-2208740](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208740.zip). Should also consider the updated L1 parameters from RAN1 LS in [R2-2209121](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2209121.zip).

Intended outcome: Agreed 38.331 CR

Deadline: Short

* [Post119-e][225][DCCA] MAC corrections to R17 DCCA (Nokia)

Scope: Finalize Rel-17 DCCA MAC correction CR.

Intended outcome: Agreed CR to 38.321

Deadline: Short

* [Post119-e][226][DCCA] RRC CRs to R17 DCCA (Huawei)

Scope: Finalize RRC CRs for DCCA by merging results from offlines [221] and [223] and taking final online agreements into account.

Intended outcome: Agreed CRs to 38.331 and 36.331

Deadline: Short

* [Post119-e][233][MUSIM] Finalizing RRC CR for MUSIM (vivo)

Scope: Finalize the RRC CR for MUSIM based on [R2-2208727](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208727.zip).

Intended outcome: Agreed 38.331 CR

Deadline: Short

* [Post119-e][242][Slicing] Finalizing MAC, Stage-2 and RRC CRs for slicing (Huawei)

Scope: Finalize the RAN slicing CRs for 38.300 (based on [R2-2208730](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208730.zip)), 38.321 (based on [R2-2208731](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208731.zip)) and 38.331 (based on [R2-2208732](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208732.zip)).

Intended outcome: Agreed CRs to 38.300, 38.321 and 38.331

Deadline: Short

* [Post119-e][243][Slicing] CR on cell reselection for RAN slicing (Qualcomm)

Scope: Finalize of RAN slicing 38.304 CR in [R2-2208734](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208734.zip).

Intended outcome: Agreed CR.

Deadline: Short

* [Post119-e][253][QoE] RRC CR for QoE (Ericsson)

Scope: Finalize RRC CR for QoE based on [R2-2208738](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208738.zip).

Intended outcome: Agreed CR

Deadline: Short

* [Post119-e][260][XR] LS to SA4 on pose information (Nokia)

Scope: Draft LS to SA4 on pose information according to online agreements.

Intended outcome: Approved LS

Deadline: Short

* [Post119-e][261][XR] LS to SA2 on XR power saving etc. (QC)

Scope: Answer SA2 LS on UE power saving (in [R2-2206966](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2206966.zip)) according to RAN2 agreements.

Intended outcome: Approved LS.

Deadline: Short

* [Post119-e][262][XR] Updated for TR 38.835 (Nokia)

Scope: Provide updated TR38.835 based on online agreements. Can also consider inclusion of content from [R2-2207375](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207375.zip).

Intended outcome: Endorsed TR

Deadline: Short

* [POST119-e][301][Sdata] CP Open issues and CR to 38.331 (ZTE)

CP open issues and CR capturing agreed corrections

Deadline: short

* [AT119-e][302][Sdata] UP open issues and CR to 38.321 (Huawei)

UP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur aiming to have company inputs and proposals by Friday

* [POST119-e][307][RA Part] CP open issues and CR 38.331 (Ericsson)

CP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur

* [Post119-e][401][Relay] LS to RAN1 on resource pool index in DCI format 3\_0 (vivo)

Scope: Draft an LS to RAN1 informing them of the conclusion under P1a in R2-2208934.

Intended outcome: Approved LS

Deadline: Short (not for RP)

* [Post119-e][402][Relay] Rel-17 relay 38.351 CR (OPPO)

Scope: Check the CR in R2-2208799.

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [Post119-e][403][Relay] Relay 38.306 CR (Qualcomm)

Scope: Draft a CR to 38.306 reflecting agreements of this meeting.

Intended outcome: Endorsed CR for merge into mega CR

Deadline: Short (for RP), to be coordinated with 38.306 CR discussion

* [Post119-e][404][Relay] Relay 38.331 CR (Huawei)

Scope: Check the rapporteur CR in R2-2208813.

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [Post119-e][405][Relay] LS to RAN1 on TP to 37.985 (ZTE)

Scope: Draft an LS to RAN1 introducing the endorsed TP in R2-2208815, and inviting them to decide whether to include it in TR 37.985.

Intended outcome: Approved LS

Deadline: Short (not for RP)

* [Post119-e][409][POS] Positioning 38.305 CR (Intel)

Scope: Check and finalise the CR in R2-2208801.

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [Post119-e][410][POS] LS to RAN4 on capability for PRS measurement without MG (Intel)

Scope: Draft an LS to RAN4, check whether 14-3: PRS measurement without MG should be reported to the LMF.

Intended outcome: Approved LS

Deadline: Short (not for RP)

* [Post119-e][411][POS] Positioning 38.321 CR (Huawei)

Scope: Check and finalise the CR in R2-2208818.

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [Post119-e][412][POS] Positioning 38.331 CR (Ericsson)

Scope: Check and finalise the CR in R2-2208825.

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [Post119-e][413][POS] 37.355 CR (Qualcomm)

Scope: Check and finalise the CR in R2-2208800.

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [Post119-e][414][POS] LPP capability CR (Intel)

Scope: Check and finalise the CR in R2-2208802.

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [POST119-e][508][V2X/SL] 38.331 corrections (Huawei)

**Scope:** Discuss proposed corrections in R2-2208053, R2-2207016, R2-2207213, R2-2207281, R2-2207523, R2-2207524, R2-2208692, R2-2207760, and R2-2208283 (including need of corrections and detailed wordings). Note corrections that are related to the discussion in [AT119-e][509] will not be discussed. Merge agreeable corrections in a CR as much as possible (we can have separate CR for big change in NBC). Contents in RAN1 LS (R1-2208123 and R1-2208121) will be also considered in CR implementation.

**Intended outcome:** 38.331 CR in R2-2208850 -> revised in R2-2208869. Email approval.

**Deadline:** Short email discussion

* [Post119-e][601][MBS-R17] RRC CR update (Huawei)

Scope: Review the RRC CR updated according to the agreements. Consider LS from RAN1 (R2-2209122)

Outcome: Approved CR

Deadline: Short

* **[Post119-e][604][MBS-R17] Final Stage-2 CR review (CMCC)**

Scope: Final update and review of the stage-2 CR (cover page corrections, late comments inclusion)

Outcome: Approved CR

Deadline: Short

# Long email discussions after R2-119-e, Deadline: Sept 23rd

**Outcome tdocs for long email discussions shall be submitted to RAN2 119bis-e (next meeting). Please request tdoc numbers as for any other input tdoc to next meeting, i.e. by 3GU**

* [Post119-e][043][ePowSav] paging early indication with paging subgrouping during emergency call (MediaTek)

Scope: Determine whether there are issues that need resolution, and if so, determine ways forward. Pave the way for agreements at next meeting

Intended outcome: Report

Deadline: long

* [Post119-e][048][feMob] Candidate target configurations for L1/L2 mobility (Ericsson)

Scope: Explore/Identify the pros/cons of options on the table in the support of the different target scenarios, supporting with high performance cell changes without reconfiguration. Can identify specific aspects of the configurations, that are potentially necessary.

Intended outcome: Report, with proposals to be addressed at next meeting.

Deadline: long (to next meeting)

* [POST119-e][108][R18 NR-NTN] NW verified UE location (Thales)

Scope: discuss the main principles of the verification procedure (e.g. criteria, performance) and identify potential solutions considering proposals in contributions submitted to RAN2#119-e

Intended outcome: email discussion summary

Deadline: Long

* [Post119-e][224][DCCA] Stage-2 description of CHO with MR-DC (ZTE)

Scope: Discuss how to capture missing signalling procedure for CHO with MR-DC in TS 37.340

Intended outcome: Discussion report and CR proposal.

Deadline: Long

* [POST119-e][313][NES] Details of solutions (Huawei)

- Capture more RAN2 details/impact/benefit on the solution groups and additional things to study

- Attempt prioritization of solutions

Deadline: Long

* [Post119-e][406][POS] Sidelink positioning protocol issues (Intel)

Scope: Discuss protocol design issues for sidelink positioning:

* Extension of LPP vs. use of SLPP/RSPP between UE and LMF when in coverage
  + Considering PC5-only and PC5+Uu cases
* Procedure types for SLPP/RSPP
  + LPP procedure types can be considered as a starting point for discussion
* Cast types for positioning signalling on PC5
  + In line with agreement from RAN2#119-e, this point does not include SL-PRS transmission, where we will follow RAN1

Intended outcome: Report to next meeting

Deadline: Long

* [Post119-e][407][POS] LPHAP upper layer enhancements (CATT)

Scope: Discuss the potential benefits of the candidate higher layer enhancements submitted to RAN2#119-e:

* Optimised paging and/or RRM measurements
* Enhancements of DL and/or UL positioning methods to use MT-SDT
* Enhance SRS configuration request to reduce signalling overhead (including area validity mechanism)
* Event report enhancements
* DL-PRS configuration optimisations
* Exposure of information to the gNB to support RRC state decisions
* Exposure of information to the gNB and/or LPF to identify UEs benefiting from LPHAP enhancements
* Enhancements to the segmentation mechanism for cooperation with LCS messages
* Support of RAT-dependent positioning in RRC\_IDLE

Intended outcome: Report to next meeting

Deadline: Long

* [Post119-e][408][Relay] Path operations in multi-path relaying (LG)

Scope: Discuss issues with path management in the multi-path relaying objective:

* The set of supported path addition/modification/removal procedures, for both scenarios 1 and 2
  + Baseline expectation is agnostic to scenarios 1 and 2
  + Can be discussed if some procedures can be omitted for scenario 2
* Need for a concept of a “primary path” and steps towards its definition if needed
* L2 functions in relation to the path concept, e.g., consequences of the bearer mapping agreement and PDCP duplication (for both scenarios 1 and 2)

Intended outcome: Report to next meeting

Deadline: Long

* [POST119-e][512][V2X/SL] Remaining corrections (IDC)

**Scope:** Continue the discussion and conclude on P13 in R2-2208857 (sl-drx-SlotOffset formula) and P9 in R2-2208836 (LCID assignment).

**Intended outcome:** Discussion summary and corresponding CRs

**Deadline:** Long email discussion

* [Post119-e][610][eMBS] PTM configuration for INACTIVE (CATT)

Scope: Discuss the details of the identified PTM configuration solutions:

* + - Attempt to reach aligned understanding/descriptions (to the possible level of details) of the solutions including the aspect of UE state transitions, session state changes and related notifications
    - Identify main issues and pros and cons specific for each approach
    - Attempt to identify issues/solutions common for all approaches

Outcome: Report with proposals

Deadline: Long

# Extra Long email discussions after R2-119-e, for R2-120, Deadline: Nov 3rd

**Outcome tdocs for long email discussions shall be submitted to RAN2 120-e (Nov meeting). Please request tdoc numbers as for any other input tdoc to next meeting, i.e. by 3GU.**

**NOTE that these discussions shall consider the duration of R2 119bis-e to be an inactive period (in addition to the general 3GPP inactive periods).**

* [Post119-e][650][IDC] Comparison of FDM solutions (Ericsson)

      Scope: Analyse the details of FDM candidate solutions raised in R2-2208951, and compare solutions , e.g. applied scenarios (e.g. serving, non-serving, different MR-DC architecture), complexity (e.g. Unified for all scenarios or not), etc;

Intended outcome: Report to RAN2#120

Deadline:  Nov 3rd (Rapporteur may introduce intermediate deadlines, but no deadline during an inactive period, and no deadline in the period from Submisssion deadline to EOM of R2-119bis).

* [Post119-e][651][IDC] Comparison of TDM solutions (Xiaomi)

      Scope: Analyse the details of following TDM candidate solutions, and compare solutions , e.g. applied scenarios (e.g. BT voice, BT eSCO and WLAN beacon), complexity, etc;

* DRX solution;
* MUSIM gap like solution;
* UL and/or DL transmission occasion(s);
* Autonomous denial solution;

Intended outcome: Report to RAN2#120

Deadline:  Nov 3rd (Rapporteur may introduce intermediate deadlines, but no deadline during an inactive period, and no deadline in the period from Submisssion deadline to EOM of R2-119bis).