**Email discussions after RAN2#113-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.

# 3GPP Inactive Period, March 29 - April 5

Email discussions are not expected during this period. No deadlines during the inactive period, nor during the weekend March 27-28. Rapporteurs shall not announce any new outcomes during the inactive period. Emails that require no reply during inactive period are discouraged but can be allowed.

Note that due to the Inactive period, the RAN2 submission deadline is delayed until April 6.

# Short email discussions after R2-113-e, Deadline Tuesday March 2 1100 UTC, if not otherwise stated

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

Approval will be declared at or shortly after the deadline.

Very Short

* [Post113-e][116][REDCAP] TP finalization (Ericsson)

Scope: merge all the agreed TP (with necessary fine tuning for editorials/clarifications) and review of the final recommendations. More recommendations can be added (e.g. on number of RedCap UE types, on UAC and on RRM relaxation) if that is possible

Intended outcome: Endorsed TP in R2-2102056

Deadline: Nov 26th (Deadline set in order for R1 to finally agree the complete TR for RP).

CLOSED

Short

* [Post113-e][000] (Chairman, editors of corrected CRs)

Scope: Corrections to outcomes of R2 113-e (any kind of correction, please bring to this email discussion). Email approval of Session Reports, Misc planning.

Revision of R2-2102442 (38.331) Nokia, was previously agreed, but problem was found.

Revision of R2-2102331 (36.331) Ericsson, was previously agreed, but problem was found.

Intended Outcome: Approved Session Reports, Agreed revisions.

Deadline: Short (CRs For RP)

* [Post113-e][009][NR15] EN-DC BCS (Nokia)

Scope: Take into account R4 LS in [R2-2102403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102403.zip). Identify related R2 issues and the R2 related solutions, if applicable. If found possible / useful, develop R2 CRs for RP. Use tdocs provided to R2 113-e if/when useful. Can also determine whether there is a need for a LS asking more questions.

Intended outcome: Report and Agreed CRs.

Deadline: Short (For RP)

* [Post113-e][014][NR16] RRC (Ericsson)

Scope: Miscellaneous Corrections CR

Intended outcome: Agreed CR.

Deadline: Short (For RP)

CLOSED

* [Post113-e][026][R4 Other] DC location Reporting (Apple)

Scope: CRs and LS out (to R4)

Intended outcome: Agreed CRs for RP, Approved LS out.

Deadline: Short (For RP)

CLOSED

* [Post113-e][035][IoT NTN] Text proposal update (Eutelsat)

Scope: Update the TP to include progress from current meeting

Intended outcome: Endorsed TP

Deadline: Short

* [Post113-e][050][NR16] UE capabilities (Intel)

Scope: Take into account R1 updated feature list (RAN1 LS R1-2102007), remaining parts of the latest R4 feature list (R4-2103367), and R2-2101020. Create Corresponding R2 UE cap CRs, to the extent possible/reasonable. Case by case judgement what can be included vs not.

Intended outcome: Agreed CRs

Deadline: Short (For RP)

CLOSED

* [Post113-e][056][MBS] Running Stage-2 CR (CMCC)

Scope: Update the 36300 draft running CR to cover agreements in R2-113-e.

Intended outcome: Endorsed Running CR

Deadline: Short

* [POST113-e][101][PRN] UAC parameters selection (Nokia)

Scope: Continue the discussion on a revision of [R2-2101557](file:///C:\Data\3GPP\Extracts\R2-2101557.docx)

Intended outcome: Agreed CR in R2-2102022

Deadline: Short (For RP)

Discussion Postponed, CLOSED

* [POST113-e][102][NTN] Stage 2 running CR (Thales)

Scope: Continue the discussion on the Stage 2 running CR also reflecting new meeting agreements (and latest RAN3 status)

Intended outcome: endorsed Stage 2 running CR in R2-2102049

Deadline: Short

CLOSED

* [POST113-e][103][NTN] RRC running CR (Ericsson)

Scope: Continue the discussion on the RRC running CR also reflecting new meeting agreements

Intended outcome: endorsed RRC running CR in R2-2102050

Deadline: Short

CLOSED

* [POST113-e][104][NTN] 304 running CR (ZTE)

Scope: Continue the discussion on the 304 running CR also reflecting new meeting agreements

Intended outcome: endorsed 304 running CR in R2-2102051

Deadline: Short

* [POST113-e][105][NTN] MAC running CR (Interdigital)

Scope: Continue the discussion on the MAC running CR also reflecting new meeting agreements

Intended outcome: endorsed MAC running CR in R2-2102052

Deadline: Short

CLOSED

* [POST113-e][115][NTN] LS on UE location aspects (Thales)

Scope: revise [R2-2102036](file:///C:\Data\3GPP\RAN2\Inbox\R2-2102036.zip) also clarifying the target use cases

Intended outcome: Approved LS in R2-2102055

Deadline: Short

CLOSED

* [Post113-e][213][CHO] Inability to comply with conditional reconfiguration (Ericsson)

Scope: Attempt to provide agreeable CR based on [R2-2101996](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113-e/Docs/R2-2101996.zip)

Intended outcome: Agreed CR

Deadline: Short (for RP)

* [Post113-e][214][DAPS] Correction on inter-node signalling for DAPS UE capability coordination (Huawei)

Scope: Try to agree to the CR based on [R2-2102347](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113-e/Docs/R2-2102347.zip) and clarify technical issues raised. If no technical issues are identified, provide agreed CR.

Intended outcome: Agreed CR (if possible)

Deadline: Short (for RP)

CLOSED

* [Post113-e][225][DCCA] Asynchronous and synchronous NR-DC cell grouping (Qualcomm)

Scope: Try to technically endorse a CR (for sync and async) illustrating how the signalling could work. Send LS to RAN4 to ask about the band entry vs. frequency band.

Intended outcome: LS to RAN4 and technically endorsed CRs on NR-DC cell grouping (38.331, 38.306)

Deadline: Short

* [Post113-e][232][eDCCA] LS to RAN3 on RAN2 agreements on CPAC (CATT)

Scope: Agree on LS to RAN3 containing latest RAN2 agreements on CPAC

Intended outcome: Approved LS to RAN3

Deadline: Short

CLOSED

* [Post113-e][243][Multi-SIM] Stage-2 running CRs (vivo)

Scope: Capture meeting agreements in running Stage-2 CRs (at least for NR - if needed also LTE)

Intended outcome: Running Stage-2 CRs for multi-SIM

Deadline: Short

CLOSED

* [Post113-e][253][Slicing] Updated TR 38.832 (CMCC)

Scope: Provide agreed TR 38.832 according to SI conclusions for submission to RANP

Intended outcome: Agreed / Endorsed TR 38.832

Deadline: Short (for RP)

CLOSED

* [Post113-e][350][NBIOT/eMTC R17] Capture the agreements (Ericsson)

Scope: Update the agreements document

Intended outcome: Endorsed Report in R2-2102164

Deadline: Short

CLOSED

* [Post113-e][601][Relay] Implementation of endorsed TPs (OPPO)

Scope: Implement the TPs and finalise the TR. Common section uses the L2 TP as baseline with the addition of the sentence on spec impact that was agreed under the L3 discussion.

Intended outcome: Endorsed TR

Deadline: Short (for RP)

CLOSED

* [POST113-e][701][V2X/SL] Response LS to RAN1 LS (R2-2102328) (LG)

**Scope:** Prepare response LS to RAN1 based on the agreement made in the discussion of R2-2102190. We can confirm RAN2 can do the necessary spec update and indicate RAN2 will let RAN1 updated once spec update is completed.

**Intended outcome:** Approved LS in R2-2102196

**Deadline:** Short

CLOSED

* [POST113-e][702][V2X/SL] Update of MAC CR (R2-2102186) (OPPO)

**Scope:** Update of MAC CR (R2-2102186)

**Intended outcome:** Agreeable MAC CR in R2-2102198

**Deadline:** Short (for RP)

CLOSED

# Long email discussions after R2-113-e, Deadline Tuesday March 26 1100 UTC, if not otherwise stated

* [Post113-e][008][NR15] 4-layer MIMO in EN-DC for Cat5 UEs (Nokia)

Scope: Handling of 4-layer MIMO in EN-DC for Cat5 UEs, baseline is [AT113-e][008] [R2-2100946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100946.zip), collect opinions to decide way forward. Can also discuss

Intended outcome: Report

Deadline: Long

* [Post113-e][051][NR15] DL scheduling slot offset (Ericsson)

Scope: Continue discussion from [AT113-e][012] R2-2101731

Intended outcome: Report with Agreeable proposals

Deadline: Long

* [Post113-e][052][NR16] cgRetxTimer (Qualcomm)

Scope: Discuss P1 from R2-2109887, R2-2100712

Intended outcome: Report, Clarify what are the issues, if any

Deadline: Long

* [Post113-e][053][MBS17] MCCH scheduling and MCCH change notification (Huawei)

Scope: Address: 1) how MCCH is transmitted in NR. 2) Options for MCCH change notification, including identification of potential R1 impacts.

Intended outcome: Report

Deadline: Long

* [Post113-e][054][MBS17] PTP/PTM dynamic switch and MRB type change (Ericsson)

Scope: Based on the agreed architecture (only), discuss issues related to PTP/PTM switch. Discuss MRB type change (i.e. change between PTP+PTM, PTM and PTP), including the signalling needed for such switch/change, whether to / how to avoid packet loss during such switch/change. This discussion may include both non-HO and handover cases.

Intended outcome: Report

Deadline: Long

* [Post113-e][055][IoT NTN] Performance Evaluation (Ericsson)

Scope: First round of discussion on performance evaluation, paging performance and connection density. Determine what should be captured in the TR. Can discuss pre-assumption, e.g. traffic model etc. Note that there are no specific requirements, so the objective is to assess performance for sanity check and to avoid surprises rather than doing a detailed comparative analysis. To the extent available, can include performance results numbers.

Intended outcome: Report

Deadline: Long

* [Post113-e][057][IAB17] CHO and DAPS for IAB (CATT)

Scope: Collect comments on the (potential) usage of CHO and DAPS, starting from agreements and previous input and discussions. Identify options / potential ways forward, easy agreements and discussion points. Detail level: Should focus on the next steps agreements.

Intended outcome: Report

Deadline: Long

* [Post113-e][058][IAB17] Inter-donor topology adaptation (Qualcomm)

Scope: First round of discussion to understand impacts of inter-donor topology adaptation, based on RAN3 progress, and related required decisions in RAN2. Include e.g. BAP/IP routing and CP/UP split. Clarify the options on the table and their consequences. Pave the way for prioritization and selection decisions (to the extent possible).

Intended outcome: Report

Deadline: Long

* [POST113-e][106][NTN] MAC aspects (Huawei)

Scope: Based on RAN2#113-e contributions, discuss:

* + RA type selection
  + TA report
  + sr-ProhibitTimer

Intended outcome: Report

Deadline: Long

* [POST113-e][107][NTN] RLC and PDCP aspects (Samsung)

Scope: Based on RAN2#113-e contributions, discuss RLC and PDCP aspects

Intended outcome: Report

Deadline: Long

* [POST113-e][108][NTN] SMTC and measurement gaps (Intel)

Scope: Based on RAN2#113-e contributions, discuss measurement framework, SMTC and measurement gaps

Intended outcome: Report

Deadline: Long

* [Post113-e][206][LTE] Clarification to Fallback band combination definition (Nokia)

Scope: Clarify what is the right interpretation of fallbacks in RAN2. Should clarify if this can impact also NR.

Intended outcome: Discussion report + agreeable LTE CRs (if any)

Deadline: Long

* [Post113-e][224][DCCA] TCI state indication at direct SCell activation (MediaTek)

Scope: Discuss what is needed in RAN2 for TCI state indication at direct SCell activation based on latest RAN1 LS (should consider also earlier RAN2 meeting discussion).

Intended outcome: Discussion report and agreeable CR (if needed)

Deadline: Long

* [Post113-e][233][eDCCA] Running Stage-2 CR on eDCCA (Huawei, ZTE)

Scope: Endorsable running Stage-2 CR(s) (38.300 and/or 37.340) for the WI. For 37.340, only cover SCG fast (de)activation.

Intended outcome: Endorsable Stage-2 CRs (38.300 and 37.340)

Deadline: Long

* [Post113-e][234][eDCCA] CPAC procedures (CATT)

Scope: Continue discussion on CPAC procedures, including P1-4 from [R2-2101970](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113-e/Docs/R2-2101970.zip) and CPAC/CHO coexistence. Attempt to provide Stage-2 signalling flows for CPAC procedures (according to agreements made so far and outcome of the email discussion).

Intended outcome: Discussion report + Stage-2 TP

Deadline: Long

* [Post113-e][351][NBIOT/eMTC R17] Paging carrier selection (Huawei)

Scope: Details and pros and cons of the 2 options.

Intended outcome: Report to the next meeting.

Deadline: long

* [Post113-e][501][SDT] Selection criteria and overall Procedure (Samsung)

Scope: Discussion on overall procedure, including: 1) Threshold handling for CG/RA before and during SDT ((and other FFS points from last meeting for overall procedure), 2) Order of selection, 3) Switching between CG/RA (whether to support it and other details)

Intended outcome: Report to the next meeting.

Deadline: long

* [Post113-e][502][SDT] General/Other CP issues (ZTE)

Scope: 1) Non-SDT data handling (including three options), 2) Subsequent data transmission issues (e.g. BSR triggers, etc). 3) Other remaining issues

Intended outcome: Report to the next meeting.

Deadline: long

* [Post113-e][503][SDT] T319, cell reselection and re-establishment (InterDigital)

Scope: 1) Extended T319 timer/new handling (option on how to start/maintain timer) 2) how to deal with timer expiry, 3) Cell reselection handling and related security aspects

Intended outcome: Report to the next meeting.

Deadline: long

* [Post113-e][504][SDT] CG open issues (Huawei)

Scope: 1) FFS points from CG agreements 2) Validity aspects, RAN2 aspects of beam selection, CG resource configuration and retransmissions for CG

Intended outcome: Report to the next meeting.

Deadline: long

* [POST113-e][703][V2X/SL] Details of timers (InterDigital)

**Scope:** Discuss details of how to maintain the agreed timers (including exact definition of timers, how to set the timers, when to start/restart/stop the timers, additional consideration due to SL characteristics, considerations of both RX UE and its peer TX UE sides) and FFS parts related to timer operations.

**Intended outcome:** Report

**Deadline:** Long

* [POST113-e][704][V2X/SL] TX UE centric or RX UE centric DRX configuration determination (OPPO)

**Scope:** Continue the discussion the remained issues regarding who will determine DRX configurations (including TX UE centric vs RX UE centric DRX configuration determination), covering both in and out of coverage scenario.

**Intended outcome:** Report

**Deadline:** Long

* [POST113-e][705][V2X/SL] MAC impacts from the latest RAN1 decisions (LG)

**Scope:** Discuss MAC impacts from the latest RAN1 decisions.

**Intended outcome:** Report, agreeable corresponding CRs and response LS (if needed)

**Deadline:** Long

* [POST113-e][706][V2X/SL] RRC impacts from the latest RAN1 decisions (Huawei)

**Scope:** Discuss RRC impacts from the latest RAN1 decisions.

**Intended outcome:** Report, agreeable corresponding CRs and response LS (if needed)

**Deadline:** Long

* [POST113-e][707][V2X/SL] Spec update to level 3 logical slots (OPPO)

**Scope:** Discuss the update of CG equation and other spec changes according to level 3 logical slots (i.e. logical slots within a resource pool).

**Intended outcome:** Report and the agreeable corresponding CRs

**Deadline:** Long

* [POST113-e][708][V2X/SL] How to handle DG for retransmissions? (OPPO)

**Scope:** Discuss option 1 (supported by the current spec) and option 2 (change of UE’s buffer flush behaviour).

**Intended outcome:** Report and agreeable CR (if needed)

**Deadline:** Long

* [Post113-e][850][NR16 SON/MDT]  Timestamp of event triggered MDT (Ericsson)

- Focus on the issue “Timestamp of event triggered logged MDT” in R2-2102141.

- Figure out the UE behavior

Intended outcome: Report

Deadline: Long

* [Post113-e][851][NR17 SON/MDT]  HO related SON changes (Ericsson)

- Scope:

impacts of CHO failure on RLF report

impacts of DAPS HO failure on RLF report

the successful HO report

- All the not-treated cat-a and cat-b proposals in 2.1.1, 2.1.2 and 2.31 of R2-2102265 should be taken into account

Intended outcome: Report

Deadline: Long

* [Post113-e][852][NR17 SON/MDT]  2 step RA and other SON changes (CATT)

- Scope:

2 step RA report enhancements (also potentially reply to RAN3 LS in R2-2008731)

Mobility history information enhancements

RA report related enhancements (from RAN2#113 contributions and RAN3 LS R2-2008723)

Other SON functions as proposed by companies for RAN2#113 meeting

Intended outcome: Report

Deadline: Long

* [Post113-e][853][NR17 SON/MDT]  IMM MDT (Huawei)

- Scope:

In R2-2102250 (MDT summary), cat (b) proposals on M6/M5/M7 should be progressed. Identify the candidate solutions and figure out pros/cons respectively

Intended outcome: Report

Deadline: Long

* [Post113-e][854][NR17 SON/MDT]  Logged MDT (CMCC)

- Scope, In R2-2102250 (MDT summary), cat (b) proposals in 2.3 should be progressed.

Intended outcome: Report

Deadline: Long