**Email discussions after RAN2#104**

# Guidelines for email discussions:

**For 1 or 2 week email discussions:**

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 at least 24 hours 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** (can be via reflector or a direct email). This avoids the rapporteur having to wait before they can conclude that their update is acceptable to you.
4. **Rapporteurs, 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 me or Juha before sending the final version.**
5. Rapporteurs, please let me know if there are problems in the discussion where I may be able to help. I will anyway be watching the discussions but a flag is sometimes useful.
6. To avoid any confusion, myself or Juha will send an email to confirm the final status of the document.

**For emails discussion to the next meeting:**

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. Please respect any intermediate deadline indicated by the rapporteur, and preferably provide your feedback as soon as possible.

# One week discussions: Deadline Monday, 2018-11-26, 23:59 Pacific Time (unless stated)

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

[104#01][NR] UE capability retrieval in MR-DC stage 2 (Nokia)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#02][NR] TCI state in CommonControlResourceSet (Huawei)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#03][NR] Inter-band EN-DC Configured Output Power (Ericsson)

To align CR with RAN4 decisions

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#04][NR] SRS Config (Huawei)

Changes from R2-1816649 to be merged into a revision of R2-1818558

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#05][NR] EN-DC configurations upon re-establishment and SGC failure (Qualcomm)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#06][NR] Signalling only connection (Huawei)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#07][NR] Stopping T302 and related actions (Xiaomi)

- To check CR in relation to NAS specification

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#08][NR] Overheating (Huawei)

Intended outcome: Agreed CRs to 38.331 and 38.306

Deadline: Monday 2018-11-26

[104#09][NR] MN/SN coordination for report CGI (Nokia)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#10][NR] Power headroom configuration exchange (Huawei)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#11][NR] CSI-RS capabilities (DCM/Intel)

Conclude the default parameters and the signalling details for CSI-RS capabilities. RAN1 colleagues must participate in this discussion.

Intended outcome: Agreed CRs to 38.331 and 38.306 (priority is 38.331)

Deadline: Wednesday 2018-11-28

[104#12][NR] New configuration parameters based on RAN1 LS (Qualcomm)

Prepare CR to address the RAN1 LS R2-1819108/R1-1814349.

Intended outcome: Agreed CR to 38.331

Deadline: Monday 2018-11-26

[104#13][NR] UE capability procedures in 38.331 and 36.331 (Ericsson)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#14][NR] SRS carrier switching capability (Huawei)

Intended outcome: Agreed CRs to 38.331 and 38.306

Deadline: Monday 2018-11-26

[104#15][NR] Per CC UL/DL modulation order capabilities (Spreadtrum)

Intended outcome: Agreed CR to 38.306

Deadline: Monday 2018-11-26

[104#16][NR] MR-DC stage (ZTE)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#17][LTE/HRLLC] CR on DC duplication (Ericsson)

Intended outcome: Agreed CR to 36.331

Deadline: Monday 2018-11-26

[104#18][LTE/5GC] CR on MME and AMF overload control (Ericsson)

This email discussion will also conclude whether an agreed CR (on delay tolerant) will remain agreed or not.

Note the CR under discussion in an NBC CR.

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#19][NR] Q-RxLevMin and Q-QualMin value range and P-Max value range (Ericsson)

Update the CRs based on any RAN4 agreements (if no agreements in RAN4 then this email discussion is not needed)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#20][NR] PDCP suspend in LTE RRC (LG)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#21][NR] PHR timing (Nokia)

Intended outcome: Agreed CR and approved LS to RAN1

Deadline: Monday 2018-11-26

[104#22][LTE/5GC] Stage 2 Corrections on handover for E-UTRA connected to 5GC (Huawei)

- Based on R2-1818076

- Check on the handover cases related to 5GC

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#23][LTE/5GC] Capture the agreements from NR (Intel)

Capture the agreements from NR which are applicable for eLTE

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#24][NR UP] Clarification on BWP ID in MAC CE (Spreadtrum)

Intended outcome: Agreed CR, if MAC CR is determined to be needed. Take into account progress in CP session

Deadline: Monday 2018-11-26

[104#25][NR UP] Correction to SR Triggering (Samsung)

Intended outcome: Agreed CR. Conclude the discussion using the almost agreeable CR in R2-1819038 as a starting point.

Deadline: Monday 2018-11-26

[104#26][IAB] TR 38.874 (Qualcomm)

Intended outcome: Agreed TR. Inclusion of all agreed TPs. Email discussion for checking details such as editorials. Joint R1 R2 R3 Email discussion

Deadline: Monday 2018-11-26

[104#27][NB-IoT/eMTC R16] RAN2 agreements (BlackBerry)

Update the RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC (Blackberry)

Intended outcome: Endorsed document in R2-1818633

Deadline: Monday 2018-11-26

[104#28][LTE - eCA] CR on n1PUCCH-AN-CS-ListP1-r13 (Nokia)

Intended outcome: agree to CR on n1PUCCH-AN-CS-ListP1-r13 asn1 error correction

Deadline: Monday 2018-11-26

[104#29][eMTC R15] PRACH resource pool for EDT (Intel)

To agree R2-1818670 (Intel)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#62][NB-IoT R14] CR on Discard the AS context and ResumeId (Huawei)

At agree CRs on "Discard the AS context and ResumeId when initiating the establishment of a RRC " (R2-1818624/5)

Intended outcome: Agreed CRs

Deadline: Monday 2018-11-26

[104#63][NB-IoT/eMTC R15] CR on UL EDT not successful (Huawei)

At agree CR on "Clarification on when UL data transmission in EDT is not considered successful" (R2-1818661)

Intended outcome: Agreed CR

Deadline: Monday 2018-11-26

[104#68][NR] Reply LS to CT1 on UE behaviour in RRC\_INACTIVE while going out-of-service (Samsung)

Response to the LS received from CT1 in R2-1816203. The response is to inform them that we reconsidered our previous agreement as requested, inform them of our new agreement, and attach our agreed CRs.

Intended outcome: Approved LS

Deadline: Thursday 2018-11-22

# Next meeting discussions: Deadline Thursday, 2019-02-07, 23:59 Pacific Time (unless stated)

**TDoc numbers for the following email discussions may be requested via 3GU tool**

[104#30][NR] De-activation of security for DRBs (Intel)

Establish the requirements to deactivate security and determine the impacts to RRC and PDCP specs so that a decision can be made at the next meeting on whether to support this in R15.

Intended outcome: Report to next meeting

Deadline: Thursday 2019-02-07

[104#31][NR] Reconfig with sync terminology (Ericsson)

Review the handover and reconfig with sync terminology to identify if any ambiguity or problem is caused by the mix of terminology and prepare a CR to address it.

Intended outcome: CR submitted to next meeting

Deadline: Thursday 2019-02-07

[104#32][NR] Filtering in NR UE capability enquiry (Qualcomm)

To progress the filtering of the E-UTRA capabilities in the NR UE capability enquiry

Intended outcome: Agreeable CR to next meeting

Deadline: Thursday 2019-02-07

[104#33][NR/Late drop] INMs (Ericsson)

Progress the detail of the parameters that would need to be added to the INMs in NR RRC to support MR-DC.

Intended outcome: Report and draft CR to next meeting

Deadline: Thursday 2019-02-07

[104#34][NR/UE Cap SI ] UE cap ID signalling options (MediaTek)

Review the email discussion 103bis#12 considering any new SA2 agreements and update the conclusions from that email discussion if necessary.

Intended outcome: Report to next meeting

Deadline: Thursday 2019-02-07

[104#35][NR] Positioning SI (Intel)

- Start the discussion after RANP

Location server functions in RAN: discuss the potential RAN impacts and procedures (e.g. protocol, interface between RAN/CN, etc); May do comparison

- Procedures on RAN obtaining UE location: comparison on potential solutions, e.g. MDT like method, location server function in RAN, RAN as LCS client; try to conclude whether all solutions are needed

- Note: Take into account the output of SA2#129bis, and SA plenary meeting in our discussion;

- Outcome of the email discussion:

- Summary on concrete solutions for identified RAN impacts for location server functions in RAN and potential majority view;

- Summary on concrete solutions for RAN obtaining UE location, and company’s view;

- Potential TP to capture solution details on potential enhancements of architecture;

Deadline: Thursday 2019-02-07

[104#36][NR/IIOT] TSN Traffic Patterns (Nokia)

Intended outcome: Based on R2-1817270, identify the issues and solution directions including a TP if possible

Deadline: Thursday 2019-02-07

[104#37][NR/IIOT] Ethernet Header Compression (Ericsson)

Intended outcome: TP for next meeting, including some expected performance numbers, identify the fields that can be compressed/removed?, which frame structures that will be addressed, the method how to specify in a WI phase (e.g. ROHC addition or other).

Deadline: Thursday 2019-02-07

[104#38][NR/IIOT] Intra UE prioritization UL Data Data (Interdigital)

Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)

Deadline: Thursday 2019-02-07

[104#39][NR/IIOT] Intra UE prioritization UL Control Data (Huawei)

Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)

Deadline: Thursday 2019-02-07

[104#40][NR/IIOT] PDCP Duplication Enhancement (Ericsson)

Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)

Deadline: Thursday 2019-02-07

[104#41][NB-IoT R13] If and how to correct the signalling of ack-NACK-NumRepetitions (Qualcomm)

Intended outcome: email discussion report, and if necessary CRs for agreement in the next meeting.

Deadline: Thursday 2019-02-07

[104#42][NB-IoT R16] Analyse the benefit and feasibility of service based group WUS solutions (Nokia)

Companies can provide solutions, with benefit analysis (e.g. based on reference traffic model) and feasibility.

Intended outcome: email discussion report

Deadline: Thursday 2019-02-07

[104#43][NB-IoT R16] To progress on D-PUR (Sierra Wireless)

Primary scope is to progress the FFS captured for D-PUR

Secondary scope, to progress further details on solutions addressing the agreements

Intended outcome: email discussion report

Deadline: Thursday 2019-02-07

[104#44][NB-IoT R16] SON/ANR report for NB-IoT (Huawei)

How and when the measurements, configuration, reporting are done.

Intended outcome: email discussion report

Deadline: Thursday 2019-02-07

[104#45][NB-IoT R16] RACH Report (Qualcomm)

How and what to report.

Intended outcome: email discussion report

Deadline: Thursday 2019-02-07

[104#46][NB-IoT R16] RLF Report (Ericsson)

Purpose and content of RLF report.

Intended outcome: email discussion report

Deadline: Thursday 2019-02-07

[104#47][NB-IoT R16] Inter-RAT cell selection (Mediatek)

Whether priority and/or suitability criteria can be broadcast.

How the assistance information is signalled.

Intended outcome: email discussion report

Deadline: Thursday 2019-02-07

[104#48][eMTC R13] Paging configurations and fractional nB value (Sequans)

- whether/how the formula works when nB is a fractional value

- how the distribution for the POs is affected

- how it can be assured that RAN1 principle “a UE not being configured with overlapping CSSs” is observed.

Intended outcome: Email discussion report to the next meeting

Deadline: Thursday 2019-02-07

[104#49][eMTC & NB-IoT R16] MT MDT (Huawei)

To evaluate the solution options based on the agreed criteria (Huawei)

Intended outcome: Email discussion report to next meeting

Deadline: Thursday 2019-02-07

[104#50][eMTC R16] Quality report in Msg3 (Huawei)

To progress the discussion on (Huawei)

- which narrowband(s) to measure and report

- how to provide the report, i.e. MAC or RRC

Intended outcome: Email discussion report to next meeting

Deadline: Thursday 2019-02-07

[104#51][NR – NTN ] - Impacts on user plane timers (Nomor)

- Identify timers impacted by RTD and how to handle them

- Outcome: TP capturing the timers

Deadline: Thursday 2019-02-07

[104#52][NR- NTN ] TP on RAN2 agreements (Thales)

Intended outcome: TP capturing agreements from RAN2#104

Deadline: Thursday 2019-02-07

[104#53][NR – NTN ] Performance requirements for NTN (Thales)

- Identify performance requirements (data rates, delay jitter)

- Identify use cases (e.g. eMBB, URLLC, MTC)

- User density per NR cell

2 stage email discussion

- First stage is to identify all metrics needed for WGs to carry out analysis

- Second stage to converge on the numbers

Intended outcome: Report to next meeting

Deadline: Thursday 2019-02-07

[104#54][NR - NTN] Mobility (Ericsson)

- Stage 1: Identify key issues to address for mobility

- Stage 2: Capture solutions identified in contributions for each of the issues

Intended outcome: Report to next meeting

Deadline: Thursday 2019-02-07

[104#55][NR/V2X] Unicast (OPPO)

Discuss definition, procedure, signaling flows and information to provide clear whole picture on how each option works for unicast and make a TP for the proposal. (OPPO)

- Option 1: AS layer connection establishment procedure by PC5-RRC is also needed.

- Option 2: Upper layer connection establishment procedure is enough.

Deadline: Thursday 2019-02-07

[104#56][NR/V2X] Level link management for unicast (Apple)

Discuss possible detailed options on AS level link management for unicast and make a TP for the proposal. (Apple)

Deadline: Thursday 2019-02-07

[104#57][NR/V2X] Interface selection (Ericsson)

Discuss the following interface selection aspects and make a TP for the proposal: (Ericsson)

- What does Uu/PC5 availability implies

- How AS decide availability of Uu/PC and whether we need to specify it

Deadline: Thursday 2019-02-07

[104#58][NR/V2X] QoS (Huawei)

Discuss QoS design for NR SL broadcast, groupcast and unicast (including per packet QoS or per flow QoS, stage-2 level associated procedures/signalling flows and required information, etc.) and make a TP for the proposal. SA2 progress needs to be also considered. Note other options are not excluded. (Huawei)

- Option 1: QoS as defined in LTE V2X SL

- Option 2: QoS as defined for NR Uu

Deadline: Thursday 2019-02-07

[104#59][NR/V2X] Resource allocation (LG)

Discuss RAN2 impacts and stage-2 level required mechanism/enhancements and make a TP for the proposal. RAN1 progress/agreement need to be also considered. (LG)

- Resource allocation for mode 1

- Common to resource allocation for all sub-mode 2s

- Specific to resource allocation to a sub mode 2

- Resource allocation when both mode 1 and mode 2 are configured/active.

Deadline: Thursday 2019-02-07

[104#60][NR/V2X] Groupcast (Qualcomm)

Discuss on groupcast (including whether group leader should be visible, need of any stage-2 level required mechanism/enhancements that different to ones for unicast/broadcast, and etc.) and make a TP for the proposal. Note the issues, which to be addressed by email discussion #701 and #702, for groupcast will be also handled here. (Qualcomm)

- Case 1: Platooning (leader-driven)

- Case 2: Other use-cases w/o leader

Deadline: Thursday 2019-02-07

[104#61][LTE/feMOB] Solution directions for minimizing user data interruption for UL/DL (Nokia)

Discuss the details of potential solution directions for split and non-split bearers and compare the solutions. Proponents should indicate the assumptions on UE (e.g. RF requirements). Consider at least the evaluation metrics agreed last time, RLM, data forwarding, user data interruption, RF requirements (e.g. 2Rx/2Tx).

Two-stage discussion: First stage (2 weeks) to identify structure of discussion document, second stage to define and compares the solutions directions.

Intended outcome: Email discussion summary with candidate solutions.

Deadline: Thursday 2019-02-07

[104#64][NR] Running 38331 CR for Late drop (Ericsson)

To progress running CR with further Late drop details on e.g. bearer handling, measurements, SCG failure, SCG resource release, INM, UE capabilities etc.

Identify and try to progress any smaller issues raised.

Rapporteur provides baseline document based on Dec 2018 version, RAN2#104 agreements and selected Tdocs submitted to RAN2#104.

Kick-off: Monday 2019-01-07

Outcome: Agreeable CR

Deadline: Thursday 2018-02-07

[104#65][NR] Running 36331 CR for Late drop (Samsung)

To progress running CR with further Late drop details on e.g. bearer handling, measurements, SCG failure, SCG resource release, INM, UE capabilities etc.

Identify and try to progress any smaller issues raised.

Rapporteur provides baseline document based on Dec 2018 version, RAN2#104 agreements and selected Tdocs submitted to RAN2#104.

Kick-off: Monday 2019-01-07

Outcome: Agreeable CR

Deadline: Thursday 2018-02-07

[104#66][NR] UE NR and E-UTRA capabilities for Late drop (Ericsson)

To progress and agree on principles (reuse on existing capabilities, request filtering, etc)

Intended outcome: Report and agreeable draft CRs to 36.306, 38.306, 36.331, 8.331 (to be included in Running CRs at next meeting)).

Deadline: Thursday 2019-02-07

[104#67][NR] Remaining QoS issues for MR-DC (Vivo)

Handling of offloaded (e.g. from MN to SN) QoS flows and whether and how to support lossless handover if any.

Intended outcome: Report and agreeable draft CRs to 38.300, 37.340, 38.331, 36.331 (to be included in Running CRs at next meeting)

Deadline: Thursday 2019-02-07